

1990 Census of Population and Housing Puerto Rico Redistricting Data on CD-ROM Technical Documentation

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Note: This technical documentation was issued at same time as the corresponding data file and does not necessarily reflect changes to the data file that may have been made later. We offer it as a service to our customers who have purchased the file, but we do not in general offer technical support for past data files. Note that although the documentation may refer to data on tape, the U.S. Census Bureau no longer releases data on magnetic tape; customers purchasing files previously released on tape will receive the file in ASCII on CD-ROM. For information about this and other technical documentation, please contact the Customer Services Center at 301-763-INFO (4636).

Additionally, Census Bureau organization, telephone numbers, and staff cited in this technical documentation are not current. For updated information, see our Telephone Contacts site at <http://www.census.gov/contacts/www/contacts.html> or Staff Search at <http://www.census.gov/cgi-bin/main/email.cgi>.

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U.S. Department of
Commerce
Economic and Statistics
Administration
U.S. Census Bureau



1990 Census of
Population and Housing

Puerto Rico Redistricting Data on CD-ROM

TECHNICAL DOCUMENTATION

Issued February 1992



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The technical documentation should be cited as follows:

Census of Population and Housing, 1990: Puerto Rico Redistricting Data on CD-ROM Technical Documentation / prepared by the Bureau of the Census. —Washington: The Bureau, 1992.

For additional information concerning Puerto Rico census data, contact Decennial Planning Division, Puerto Rico and Outlying Areas Branch, Bureau of the Census, Washington, DC 20233. Telephone: 301-763-2903.

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

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

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ABSTRACT

The user should note that there are limitations to many of these data. Please refer to the technical documentation for a further explanation on the limitations of the data.

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CITATION

Census of Population and Housing, 1990: Puerto Rico Redistricting Data on CD-ROM [Machine-readable data file] / prepared by the Bureau of the Census. —Washington: The Bureau [producer and distributor], 1992.

TYPE OF FILE

Summary statistics.

UNIVERSE DESCRIPTION

All persons and housing units in Puerto Rico.

SUBJECT MATTER DESCRIPTION

The file contains a count of all persons and all housing units in Puerto Rico. It also provides a count of persons under 18 and 18 years old and over. Counts also are supplied for occupied and vacant housing units.

GEOGRAPHIC COVERAGE

This abstract lists the most frequently accessed geographic levels. The Summary Level Sequence Chart chapter outlines the hierarchical and inventory summaries in their entirety.

The data for Puerto Rico and its subareas are presented in hierarchical sequence down to the block level. The hierarchy is shown below:

- Puerto Rico
 - Municipio
 - Voting district
 - Municipio subdivision
 - Place (or place part)
 - Census tract/block numbering area (or census tract/block numbering area part)
 - Block group (or block group part)
 - Block

The file also has inventories (complete summaries) for the following geographic areas:

- Municipio subdivision
- Subbarrio
- Place

In addition to geographic codes, the file includes area characteristics information such as land area, water area, latitude, and longitude.

RELATED ELECTRONIC MEDIA PRODUCTS

Puerto Rico redistricting data are also available on tape. CENDATA™, the Census Bureau's online system, carries data for Puerto Rico, municipios, and places. Contact Customer Services (301-763-4100) for additional information on tape products or CENDATA.

RELATED REFERENCE MATERIALS

1990 Census of Population and Housing Tabulation and Publication Program for Puerto Rico. A report that describes 1990 census products for Puerto Rico comparing 1990 products with those of the 1980 census, and more. This publication, in both English and Spanish is available without charge. To order contact Customer Services, Data User Services Division, Bureau of the Census, Washington, DC 20233. Telephone: 301-763-4100. FAX: 301-763-4794.

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

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

A comprehensive *1990 Census of Population and Housing Guide* will be available later in 1992. It will provide detailed information about all aspects of the census and a comprehensive glossary of census terms.

Census of Population and Housing, 1990: Puerto Rico Redistricting Data on CD-ROM Technical Documentation. This technical documentation is a complete guide to the Puerto Rico Redistricting Data file. It includes information on using the file, presentations of the tables in various levels of detail, geographic and subject definitions, information about data collection and pro-

cessing procedures, an overview of data products from the 1990 census, and map information. One copy accompanies each file order. Additional copies are available for \$15 each from Customer Services (see page 1-1).

SOFTWARE

Data retrieval software is on the CD-ROM. It can be accessed by typing GO.

TECHNICAL DESCRIPTION

The data files on the CD-ROM are in dBasell+™ format. This CD-ROM contains data for both STF 1 and

the Puerto Rico Redistricting File. STF 1 data is located in the root directory; Puerto Rico Redistricting data is in the directory named RF1990PR. To access each data file using the GO software, be sure you are in the proper directory. Separate printed technical documentation is provided for each file, and the ASCII versions are found in the DOCUMENT directory as STFPRDOC and RFPRDOC.

FILE AVAILABILITY

Puerto Rico redistricting data are available from Customer Services, Data User Services Division, Bureau of the Census, Washington, DC 20233. The cost of each CD-ROM is \$150.

*0001

Please Type or Print. (Form is aligned for typewriter use.) Prices include regular domestic postage and handling. International customers please add 25%.

Mail To: Customer Services, Bureau of the Census,
Washington, DC 20233 [or call (301)763-4100;
fax (301)763-4794]

*0002

HOW TO USE THIS FILE

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INTRODUCTION

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

For the 1990 Decennial Census of Population and Housing, the Census Bureau extended to the Commonwealth of Puerto Rico the opportunity to participate in Phase 2 of the Block Boundary Definition Project. This enabled officials in Puerto Rico to delineate voting districts (VTD's) by highlighting the VTD boundaries along the boundaries of census blocks and legal entities (municipios, barrios-pueblos/barrios, and subbarrios) shown on a set of the Census Bureau's precensus maps. The Census Bureau inserted the VTD boundaries and identifying codes into its geographic database so that it could tabulate data useful for redistricting based on these boundaries. The Census Bureau provided the Commonwealth with data and maps similar to those provided to States under Public Law 94-171.

Documentation Chapters

The Abstract chapter in this documentation provides a quick overview of the file, including the formal title, subject coverage, geographic coverage, and file availability. Also shown are citations for related electronic media and reference materials, as well as purchasing information.

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

User and Technical Notes

Information about file or documentation changes sometimes becomes available after the documentation has been printed. User notes inform the user community about these changes. These are issued in a numbered series. If there are technical documentation

changes, revised pages usually accompany them. The revised pages should be inserted in their proper location, but the user note cover sheet should be filed in the User Notes chapter.

Technical notes provide information for specific geography or summary levels. While they are not a part of the technical documentation, we suggest filing them in the documentation notebook. Please see the User Notes chapter for specific distribution information.

Data Dictionary

The Data Dictionary chapter describes the file and provides character locations for each variable and each table. It has two elements, the identification section and the table (matrix) section. Some of the field and reference names in the identification section are not applicable to the Puerto Rico data and usually are filled with 9's or 0's as appropriate.

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

The identification section of the Data Dictionary chapter is identical for all 1990 summary files. It provides a list of the geographic codes or refers the user to the appropriate source. Review the footnotes carefully; they provide explanations for various terms. These footnotes are listed at the end of the identification section of the Data Dictionary chapter.

The table (matrix) section provides information on the table (matrix) number, table (matrix) description, data dictionary reference name, field size, data type, and cell coordinates.

Appendixes

Detailed information on geographic areas is in appendix A, followed by subject-matter definitions in appendix B. Appendix C provides detailed statistical information about the data, while appendix D outlines the data collection and processing procedures. A facsimile of the 1990 census questionnaire for Puerto Rico is in appendix E.

Appendix F furnishes detailed information on all the data products for Puerto Rico of the 1990 census, as well as suggested sources of information and assistance. Appendix G contains map information and samples. Appendix H provides CD-ROM specific technical information.

USING THE FILE

Field Names in Numeric Data Tables

Fields in numeric data tables are named according to a convention which identifies the tables and the sequence of the data item within the table. The two data items in P2, for example, are identified as P0020001 and P0020002. The one data item in table H1 is identified as H0010001.

Components Of The Field Name

Character 1 *P or H*
Character 2-4 Table number; right justified with leading zeroes
Character 5 Sub-table letter; zero if not applicable
Character 6-8 Item number; right justified with leading zeroes

Record Identification

The first 32 characters of each logical record provide record information. Because the identification information layout is identical for all 1990 census summary files, there are some fields that are not used on the Puerto Rico redistricting file and other fields that have identical coding on all records in this file.

In the Puerto Rico redistricting file, the geographic component is always coded '00', the characteristic iteration is always coded '000', and both the logical record part number and total number of parts in record fields are coded '0001'. The logical record number is a record sequence number within the file.

Summary Level Sequence Chart

The Summary Level Sequence Chart chapter provides essential information for using the 1990 census Puerto Rico redistricting file. Remember that, for purposes of data presentation, the Census Bureau treats Puerto Rico as the statistical equivalent of a state and municipios as the statistical equivalent of counties. Barrios-pueblos or barrios are the statistical equivalent of county subdivisions. Some subdivisions (barrios-pueblos or barrios) are divided into sub-minor civil divisions called subbarrios.

This chart identifies the geographic levels for which data are provided. It is easy to determine this if you remember that the last geographic area type listed in the sequence identifies the geography of the summary level; the prior codes simply define the hierarchy. For example, in summary level 140, the hierarchy listed is State—county—census tract/block numbering area (BNA). The record actually contains data for a census tract/BNA within a given county and State.

When reading the Summary Level Sequence Chart, it is important to recognize that dashes (—) separate the

individual hierarchies while slashes (/) separate different types of geography within the same hierarchy. For example, State—county—census tract/BNA identifies a record hierarchy for a census tract or BNA within a county within a State.

After identifying the summary level code, turn to chart 1 at the end of this chapter to determine which geographic area codes and area characteristics are provided on the tape for this summary level. Remember that an asterisk (*) indicates a code in that field. The code may be one of the standard codes described on page 2-3.

Special Area Codes

Special area codes appear in the geographic area codes portion of the Data Dictionary chapter on all 1990 census summary files. The codes represented may vary across files. In the Puerto Rico Redistricting Data file, there are four special area code fields used. These fields are Special Area Codes 3, 8, 9, and 10.

The Special Area Code 3 field is used in summary levels 700, 710, 715, 720, 730, 735, 740, 745, 750, and 755. It contains the voting district code.

The Special Area Code 8 field is used in summary levels 067, 715, 735, 745, and 755. It contains the sub-barrio code.

The Special Area Code 9 field, the land/water area field, appears in all summary levels. Codes are shown in the boxed area below.

Special area code (9)—Land/water area

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

The Special Area Code 10 field applies to summary levels 700, 710, 715, 720, 730, 735, 740, 745, 750, and 755. It is used as an identifier for approximated voting districts. See the section below on voting districts for a complete explanation.

Standard Codes

In the identification section of all 1990 summary files, there are standard codes, undefined in the Data Dictionary chapter, that have identical meaning regardless of the field. The codes are the same size as the field; that is, a three-character field will have three symbols. These standard codes are as follows:

- I Not available—The code would be shown, except that it has not been determined (for example, metropolitan area code on a county summary level (050)).
- 9 Not in—This indicates a "remainder of" an area, such as a place code in the portion of a county subdivision not in a place, or the summary level is not part of any area to which the code field applies, such as a summary level that is not in a zona urbana.
- Blank Not applicable—This indicates that the code is not applicable to the summary level.

Voting Districts

Actual Voting Districts—The entities reported by the Commonwealth as representing these areas are referred to as "actual voting districts"—regardless of their legal

status or currency. They are identified in the file by an asterisk (*) appended to the voting district name in the Area Name/PSAD Term/Part Indicator field (position 192); in addition, an "A" (for "actual") is shown in Special Area Code 10 (position 171).

Pseudo Voting Districts—The criteria for Phase 2 of the Block Boundary Definition Project required voting districts to follow census block boundaries. In many cases, the Commonwealth moved the actual voting district boundary, which did not follow a census block boundary, to coincide with a nearby block boundary for tabulation purposes only. The voting district was no longer "actual"; it was an approximation, which is referred to as a "pseudo voting district." If there is no asterisk appended to the name, and a "P" (for "pseudo") appears in Special Area Code 10 (position 171), the Commonwealth participant approximated that voting district.

Voting District Codes—Voting districts are not specifically identified in the identification section of the data dictionary. *Voting district codes are found in the field identified as Special Area Code 3 (4 characters beginning in position 152).* If a portion or pieces of a municipio were not allocated to a specific VTD code, they were aggregated into a single VTD identified with a code of ZZZZ. These VTD's were considered "pseudo." All other Puerto Rico codes are 4-digit numeric codes.

Chart 1. Puerto Rico Redistricting File Identification by Summary Level¹

Field name	Summary level				Summary level			
	040	050	060	067	140	160	700	710
Record Codes								
File Identification	*	*	*	*	*	*	*	*
State/US Abbreviation (Puerto Rico only)	*	*	*	*	*	*	*	*
Summary Level	*	*	*	*	*	*	*	*
Geographic Component	*	*	*	*	*	*	*	*
Characteristic Iteration	*	*	*	*	*	*	*	*
Logical Record Number	*	*	*	*	*	*	*	*
Logical Record Part Number	*	*	*	*	*	*	*	*
Total Number of Parts in Record	*	*	*	*	*	*	*	*
Geographic Area Codes								
Alaska Native Regional Corporation								
American Indian/Alaska Native Area (Census)								
American Indian/Alaska Native Area (FIPS)								
American Indian/Alaska Native Area Class Code								
American Indian Reservation Trust Land Indicator								
Block								
Block Group								
Census Tract/Block Numbering Area					*			
Congressional District								
Consolidated City (Census)						*		
Consolidated City (FIPS)						*		
Consolidated City Class Code						*		
Consolidated City Size Code						*		
Consolidated Metropolitan Statistical Area		*	*	*	*			
Municipio (County)		*	*	*	*		*	*
County Size Code		*	*	*	*		*	*
County Subdivision (Barrio-pueblo or Barrio) (Census)			*	*				*
County Subdivision (FIPS)			*	*				*
County Subdivision Class Code			*	*				*
County Subdivision Size Code			*	*				*
Division	*	*	*	*	*	*	*	*
Extended City Indicator						*		
Internal Use Code								
Metropolitan Statistical Area/Consolidated								
Metropolitan Statistical Area		*	*	*	*			
MSA/CMSA Size Code		*	*	*	*			
Place (Census)						*		
Place (FIPS)						*		
Place Class Code						*		

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

Summary level
715 720 730 735

Summary level
740 745 750 755

Field name

Record Codes

*	*	*	*
*	*	*	*
*	*	*	*
*	*	*	*

File Identification
State/US Abbreviation (Puerto Rico only)
Summary Level
Geographic Component

*	*	*	*
*	*	*	*
*	*	*	*
*	*	*	*

Characteristic Iteration
Logical Record Number
Logical Record Part Number
Total Number of Parts in Record

Geographic Area Codes

*

Alaska Native Regional Corporation
American Indian/Alaska Native Area (Census)
American Indian/Alaska Native Area (FIPS)
American Indian/Alaska Native Area Class Code

*

American Indian Reservation Trust Land Indicator
Block
Block Group
Census Tract/Block Numbering Area

*

*

*

*

*

*

Congressional District
Consolidated City (Census)
Consolidated City (FIPS)
Consolidated City Class Code

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Consolidated City Size Code
Consolidated Metropolitan Statistical Area
Municipio (County)
County Size Code

*	*	*	*
*	*	*	*
*	*	*	*
*	*	*	*

County Subdivision (Barrio-pueblo or Barrio) (Census)
County Subdivision (FIPS)
County Subdivision Class Code
County Subdivision Size Code

*	*	*	*
---	---	---	---

Division
Extended City Indicator
Internal Use Code
Metropolitan Statistical Area/Consolidated
Metropolitan Statistical Area

*

*

*

*

*

*

*

*

*

*

*

*

MSA/CMSA Size Code
Place (Census)
Place (FIPS)
Place Class Code

Chart 1. Puerto Rico Redistricting File Identification by Summary Level¹-Con.

Field name	Summary level				Summary level			
	040	050	060	067	140	160	700	710
Geographic Area Codes-Con.								
Place Description Code						*		
Place Size Code						*		
Primary Metropolitan Statistical Area		*	*	*	*			
Region	*	*	*	*	*	*	*	*
State (Census) ²	*	*	*	*	*	*	*	*
State (FIPS)	*	*	*	*	*	*	*	*
Urban/Rural								
Urbanized Area								
Urbanized Area Size Code								
Special Area Code (1)								
Special Area Code (2)								
Special Area Code (3)							*	*
Special Area Code (4)								
Special Area Code (5)								
Special Area Code (6)								
Special Area Code (7)								
Special Area Code (8)				*				
Special Area Code (9)	*	*	*	*	*	*	*	*
Special Area Code (10)							*	*
Area Characteristics								
Area (Land)	*	*	*	*	*	*	*	*
Area (Water)	*	*	*	*	*	*	*	*
Area Name/PSAD Term/Part Indicator	*	*	*	*	*	*	*	*
Functional Status Code	*	*	*	*	*	*	*	*
Geographic Change User Note Indicator	*	*	*	*		*		*
Housing Unit Count (100 percent)	*	*	*	*	*	*	*	*
Internal Point (Latitude)	*	*	*	*	*	*	*	*
Internal Point (Longitude)	*	*	*	*	*	*	*	*
Part Flag							*	*
Political/Statistical Area Description Code	*	*	*	*		*		*
Population Count (100 percent)	*	*	*	*	*	*	*	*
Special Flag	*	*	*	*	*	*	*	*

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

²Puerto Rico

Summary level
715 720 730 735

Summary level
740 745 750 755

Field name

Geographic Area Codes—Con.

	*	*			*	*	*
	*	*			*	*	*
*	*	*	*		*	*	*

Place Description Code
Place Size Code
Primary Metropolitan Statistical Area
Region

*	*	*	*		*	*	*
*	*	*	*		*	*	*

State (Census)²
State (FIPS)
Urban/Rural
Urbanized Area
Urbanized Area Size Code

*	*	*	*		*	*	*
---	---	---	---	--	---	---	---

Special Area Code (1)
Special Area Code (2)
Special Area Code (3)
Special Area Code (4)
Special Area Code (5)

*			*		*		*
*	*	*	*		*	*	*
*	*	*	*		*	*	*

Special Area Code (6)
Special Area Code (7)
Special Area Code (8)
Special Area Code (9)
Special Area Code (10)

Area Characteristics

*	*	*	*		*	*	*
*	*	*	*		*	*	*
*	*	*	*		*	*	*
*	*	*	*		*	*	*

Area (Land)
Area (Water)
Area Name/PSAD Term/Part Indicator
Functional Status Code

*	*				*	*	*
*	*	*	*		*	*	*
*	*	*	*		*	*	*
*	*	*	*		*	*	*

Geographic Change User Note Indicator
Housing Unit Count (100 percent)
Internal Point (Latitude)
Internal Point (Longitude)

*	*	*	*		*	*	
*	*						
*	*	*	*		*	*	*
*	*	*	*		*	*	*

Part Flag
Political/Statistical Area Description Code
Population Count (100 percent)
Special Flag

²Puerto Rico

SUBJECT LOCATOR

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INTRODUCTION

This index is designed to quickly identify the Puerto Rico redistricting data needed. Each variable is listed alphabetically. Both the type of entry being tabulated (universe), which is shown in italics, and the relevant table numbers appear under the variable heading. The index entries for each variable are arranged by universe then by table number.

INDEX

Age	
<i>Persons</i>	P2
Housing Units	
<i>Housing units</i>	H1
Occupancy Status	
<i>Housing units</i>	H2
Persons	
<i>Persons</i>	P1

LIST OF TABLES (MATRICES)

Table (matrix)	Title	Total number of data cells
P1.	PERSONS(1) <i>Universe: Persons</i>	1
P2.	AGE(2) <i>Universe: Persons</i>	2
H1.	HOUSING UNITS(1) <i>Universe: Housing units</i>	1
H2.	OCCUPANCY STATUS(2) <i>Universe: Housing units</i>	2

TABLE (MATRIX) OUTLINES

Table (matrix)	Title	Total number of data cells
P1.	PERSONS(1) <i>Universe: Persons</i> Total	1
P2.	AGE(2) <i>Universe: Persons</i> Under 18 years 18 years and over	2
H1.	HOUSING UNITS(1) <i>Universe: Housing units</i> Total	1
H2.	OCCUPANCY STATUS(2) <i>Universe: Housing units</i> Occupied Vacant	2

SUMMARY LEVEL SEQUENCE CHART

Summary level area	Summary level code	Geographic component code
State ¹	040	00
State—County ²	050	00
State—County—Voting District/Remainder	700	00
State—County—Census Tract/Block Numbering Area	140	00
State—County—Voting District/Remainder—County Subdivision ³	710	00
State—County—Voting District/Remainder—County Subdivision—Place ⁴ /Remainder	720	00
State—County—Voting District/Remainder—County Subdivision—Place/Remainder—Census Tract/Block Numbering Area	730	00
State—County—Voting District/Remainder—County Subdivision—Place/Remainder—Census Tract/Block Numbering Area—Block Group	740	00
State—County—Voting District/Remainder—County Subdivision—Place/Remainder—Census Tract/Block Numbering Area—Block Group—Block	750	00
State [Puerto Rico only]—County—Voting District/Remainder—County Subdivision—Subbarrio ⁵	715	00
State [Puerto Rico only]—County—Voting District/Remainder—County Subdivision—Subbarrio—Census Tract/Block Numbering Area	735	00
State [Puerto Rico only]—County—Voting District/Remainder—County Subdivision—Subbarrio—Census Tract/Block Numbering Area—Block Group	745	00
State [Puerto Rico only]—County—Voting District/Remainder—County Subdivision—Subbarrio—Census Tract/Block Numbering Area—Block Group—Block	755	00
State—County—County Subdivision	060	00
State [Puerto Rico only]—County—County Subdivision—Subbarrio	067	00
State—Place	160	00

¹Puerto Rico

²Municipio in Puerto Rico

³Barrio-pueblo or barrio in Puerto Rico

⁴Zona urbana or comunidad in Puerto Rico

⁵In Puerto Rico, some subdivisions (barrios-pueblos and barrios) are divided into sub-minor civil divisions (subbarrios)

USER NOTES

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

Programs bulletin board. The bulletin board phone number is 301-763-7554.

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



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

CENSUS OF POPULATION AND HOUSING, 1990: PUERTO RICO REDISTRICTING DATA ON CD-ROM

USER NOTE 1

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

as 0 years. (Age in completed months was not collected for infants under age 1.)

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

This user note should be filed in the User Notes Chapter of the Puerto Rico Redistricting Data.

January 1992

USER NOTE ORDERING INFORMATION

Additional information concerning this file may be available at a later date. User notes, along with technical notes, are sent automatically to all Census Bureau data purchasers. If the user/technical notes should be sent to another address, please complete the coupon below and return it to Customer Services at the address shown.

Users who purchase data from other sources may subscribe to the user/technical note series at a cost of \$40 annually. Use the Customer Services order form at the end of chapter 1. Be sure to indicate the series subscription (Redistricting Data, STF 1, etc.) on the order form.

.....
Please mail to:

Customer Services Branch
Data User Services Division
Bureau of the Census
Washington, DC 20233

Name of File: **Census of Population and Housing, 1990: Puerto Rico Redistricting Data on CD-ROM**

Please send me any information that becomes available later concerning the file listed above.

Name:

Address:

City and State:

ZIP Code:

DATA DICTIONARY

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Identification Section	1
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IDENTIFICATION SECTION

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

File Identification ¹	FILEID	8	1	A/N
State/US Abbreviation	STUSAB	2	9	A

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

Summary Level ²	SUMLEV	3	11	N
Geographic Component ³	GEOCOMP	2	14	N

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

NOTE: See footnotes at the end of this section.

IDENTIFICATION SECTION—Con.

Field name	Data dictionary reference name	Field size	Starting position	Data type
23 In metropolitan statistical area/consolidated metropolitan statistical area—in metropolitan statistical area/primary metropolitan statistical area central city				
24 In metropolitan statistical area/consolidated metropolitan statistical area—not in metropolitan statistical area/primary metropolitan statistical area central city				
25 In metropolitan statistical area/consolidated metropolitan statistical area—not in metropolitan statistical area/primary metropolitan statistical area central city—urban				
26 In metropolitan statistical area/consolidated metropolitan statistical area—not in metropolitan statistical area/primary metropolitan statistical area central city—urban—in urbanized area				
27 In metropolitan statistical area/consolidated metropolitan statistical area—not in metropolitan statistical area/primary metropolitan statistical area central city—urban—not in urbanized area				
28 In metropolitan statistical area/consolidated metropolitan statistical area—not in metropolitan statistical area/primary metropolitan statistical area central city—rural				
30 Not in metropolitan statistical area/consolidated metropolitan statistical area				
31 Not in metropolitan statistical area/consolidated metropolitan statistical area—urban				
32 Not in metropolitan statistical area/consolidated metropolitan statistical area—urban—in urbanized area				
33 Not in metropolitan statistical area/consolidated metropolitan statistical area—urban—not in urbanized area				
34 Not in metropolitan statistical area/consolidated metropolitan statistical area—urban—not in urbanized area—place [10,000 or more population]				
35 Not in metropolitan statistical area/consolidated metropolitan statistical area—urban—not in urbanized area—place [2,500 - 9,999 population]				
36 Not in metropolitan statistical area/consolidated metropolitan statistical area—rural				
40 American Indian reservation and trust land [American Indian reservations (AIR codes 0001-4989) including any trust lands]				
42 Tribal Jurisdiction Statistical Area [Oklahoma only]				
43 Tribal Designated Statistical Area				
44 Alaska Native village statistical area [Alaska only]				

Characteristic Iteration ⁴.....CHARITER 3 16 N

000 Not a characteristic iteration

Logical Record Number ⁵.....LOGRECNU 6 19 N

Logical Record Part Number ⁶.....LOGRECPN 4 25 N

Total Number of Parts in Record ⁷.....PARTREC 4 29 N

Geographic Area Codes

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

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

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

American Indian/Alaska Native Area (FIPS) ¹⁰.....AIANAFP 5 39 A/N

American Indian/Alaska Native Area Class Code.....AIANACC 2 44 A/N

- | |
|---|
| D1 Federally recognized American Indian reservation that does not serve as a minor civil division (MCD) equivalent |
| D2 Federally recognized American Indian reservation that also serves as an MCD equivalent |
| D3 American Indian tribal government that holds property in trust—"trust land"—for a tribe or individual member(s) of the tribe, and the trust land(s) is not associated with a specific American Indian reservation or the associated American Indian reservation is not located in this State |
| D4 State-recognized American Indian reservation that does not serve as an MCD equivalent |
| D5 State-recognized American Indian reservation that also serves as an MCD equivalent |

NOTE: See footnotes at the end of this section.

IDENTIFICATION SECTION—Con.

Field name	Data dictionary reference name	Field size	Starting position	Data type
<div> D6 Tribal designated statistical area (TDSA); tribal jurisdiction statistical area (TJSA) (TJSAs occur only in Oklahoma) E1 Alaska Native village statistical area (ANVSA) that does not coincide with or approximate an incorporated place or a census designated place (CDP) E2 ANVSA that coincides with or approximates a CDP E6 ANVSA that coincides with or approximates an incorporated place </div>				
American Indian Reservation Trust Land Indicator Code.....	ARTLI	1	46	A/N
<div> 1 American Indian reservation; including Tribal Jurisdiction Statistical Area (TJSA) and Tribal Designated Statistical Area (TDSA) 2 Off-reservation trust land 9 Not an American Indian area </div>				
Block ^a	BLCK	4	47	A/N
Block Group ^a	BLCKGR	1	51	A/N
Census Tract/Block Numbering Area ^a	TRACTBNA	6	52	A/N
Congressional District (101st Congress) ^a	CONGDIS	2	58	A/N
<div> 01-45 The actual congressional district number 00 Applies to States whose representative is elected "at large"; i.e., the State has only one representative in the United States House of Representatives 98 Applies to areas that have a nonvoting delegate in the United States House of Representatives 99 Applies to areas that have no representation in the United States House of Representatives </div>				
Consolidated City (Census) ^a	CONCITCE	1	60	A/N
<div> B Butte-Silver Bow, Montana C Columbus, Georgia I Indianapolis, Indiana J Jacksonville, Florida M Milford, Connecticut N Nashville-Davidson, Tennessee </div>				
Consolidated City (FIPS) ^{a,10}	CONCITFP	5	61	A/N
Consolidated City Class Code ¹⁰	CONCITCC	2	66	A/N
<div>C3 Consolidated city</div>				
Consolidated City Population Size Code.....	CONCITSC	2	68	A/N
<div> 00 Not in universe 01 0 02 1-24 03 25-99 04 100-199 05 200-249 06 250-299 07 300-499 08 500-999 09 1,000-1,499 10 1,500-1,999 11 2,000-2,499 12 2,500-4,999 13 5,000-9,999 14 10,000-19,999 15 20,000-24,999 16 25,000-49,999 17 50,000-99,999 18 100,000-249,999 19 250,000-499,999 20 500,000-999,999 21 1,000,000-2,499,999 22 2,500,000-4,999,999 23 5,000,000 or more </div>				
Consolidated Metropolitan Statistical Area ^a	CMSA	2	70	A/N
County ^a	CNTY	3	72	A/N

NOTE: See footnotes at the end of this section.

DATA DICTIONARY

IDENTIFICATION SECTION—Con.

Field name	Data dictionary reference name	Field size	Starting position	Data type																														
County Population Size Code.....	CNTYSC	2	75	A/N																														
<table> <tr> <td>00 Not in universe</td><td>06 250-299</td><td>12 2,500-4,999</td><td>18 100,000-249,999</td><td></td></tr> <tr> <td>01 0</td><td>07 300-499</td><td>13 5,000-9,999</td><td>19 250,000-499,999</td><td></td></tr> <tr> <td>02 1-24</td><td>08 500-999</td><td>14 10,000-19,999</td><td>20 500,000-999,999</td><td></td></tr> <tr> <td>03 25-99</td><td>09 1,000-1,499</td><td>15 20,000-24,999</td><td>21 1,000,000-2,499,999</td><td></td></tr> <tr> <td>04 100-199</td><td>10 1,500-1,999</td><td>16 25,000-49,999</td><td>22 2,500,000-4,999,999</td><td></td></tr> <tr> <td>05 200-249</td><td>11 2,000-2,499</td><td>17 50,000-99,999</td><td>23 5,000,000 or more</td><td></td></tr> </table>					00 Not in universe	06 250-299	12 2,500-4,999	18 100,000-249,999		01 0	07 300-499	13 5,000-9,999	19 250,000-499,999		02 1-24	08 500-999	14 10,000-19,999	20 500,000-999,999		03 25-99	09 1,000-1,499	15 20,000-24,999	21 1,000,000-2,499,999		04 100-199	10 1,500-1,999	16 25,000-49,999	22 2,500,000-4,999,999		05 200-249	11 2,000-2,499	17 50,000-99,999	23 5,000,000 or more	
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05 200-249	11 2,000-2,499	17 50,000-99,999	23 5,000,000 or more																															
County Subdivision (Census) ⁹	COUSUBCE	3	77	A/N																														
County Subdivision (FIPS) ¹⁰	COUSUBFP	5	80	A/N																														
County Subdivision Class Code	COUSUBCC	2	85	A/N																														
<p>C2 Incorporated place that also serves as a minor civil division (MCD) equivalent because, although the place is coextensive with an MCD, the Census Bureau, in agreement with State officials, does not recognize that MCD for presenting census data because the MCD cannot provide governmental services (Ohio only)</p> <p>C5 Incorporated place that also serves as an MCD equivalent because it is not part of an MCD or a county subdivision classified as Z5</p> <p>C7 Incorporated place that also serves as a county equivalent and an MCD equivalent; generally referred to as an "independent city"</p> <p>D2 Federally recognized American Indian reservation that also serves as an MCD equivalent</p> <p>D5 State-recognized American Indian reservation that also serves as an MCD equivalent</p> <p>T1 Governmentally active minor civil division (MCD) that is not coextensive with an incorporated place</p> <p>T5 Governmentally active MCD that is coextensive with an incorporated place</p> <p>Z1 MCD that is governmentally inactive or cannot provide general-purpose governmental services</p> <p>Z3 Unorganized territory identified by the Census Bureau as an MCD equivalent for presenting census data</p> <p>Z5 Census county division (CCD); census subarea (CSA) (Alaska only); census subdistrict (Virgin Islands only)</p> <p>Z7 Incorporated place that the Census Bureau treats as a minor civil division (MCD) equivalent because it is not in any MCD or is coextensive with a legally established but nonfunctioning MCD that the Census Bureau does not recognize for data presentation, AND is located in a State or county whose MCDs cannot provide governmental services (Iowa and Nebraska only)</p>																																		
County Subdivision Population Size Code	COUSUBSC	2	87	A/N																														
<table> <tr> <td>00 Not in universe</td><td>06 250-299</td><td>12 2,500-4,999</td><td>18 100,000-249,999</td><td></td></tr> <tr> <td>01 0</td><td>07 300-499</td><td>13 5,000 0,000</td><td>19 250,000-499,999</td><td></td></tr> <tr> <td>02 1-24</td><td>08 500-999</td><td>14 10,000-19,999</td><td>20 500,000-999,999</td><td></td></tr> <tr> <td>03 25-99</td><td>09 1,000-1,499</td><td>15 20,000-24,999</td><td>21 1,000,000-2,499,999</td><td></td></tr> <tr> <td>04 100-199</td><td>10 1,500-1,999</td><td>16 25,000-49,999</td><td>22 2,500,000-4,999,999</td><td></td></tr> <tr> <td>05 200-249</td><td>11 2,000-2,499</td><td>17 50,000-99,999</td><td>23 5,000,000 or more</td><td></td></tr> </table>					00 Not in universe	06 250-299	12 2,500-4,999	18 100,000-249,999		01 0	07 300-499	13 5,000 0,000	19 250,000-499,999		02 1-24	08 500-999	14 10,000-19,999	20 500,000-999,999		03 25-99	09 1,000-1,499	15 20,000-24,999	21 1,000,000-2,499,999		04 100-199	10 1,500-1,999	16 25,000-49,999	22 2,500,000-4,999,999		05 200-249	11 2,000-2,499	17 50,000-99,999	23 5,000,000 or more	
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05 200-249	11 2,000-2,499	17 50,000-99,999	23 5,000,000 or more																															
Division ⁸	DIVIS	1	89	A/N																														
<table> <tr> <td>0 Not in a division</td><td>4 West North Central</td><td>7 West South Central</td><td></td><td></td></tr> <tr> <td>1 New England</td><td>5 South Atlantic</td><td>8 Mountain</td><td></td><td></td></tr> <tr> <td>2 Middle Atlantic</td><td>6 East South Central</td><td>9 Pacific</td><td></td><td></td></tr> <tr> <td>3 East North Central</td><td></td><td></td><td></td><td></td></tr> </table>					0 Not in a division	4 West North Central	7 West South Central			1 New England	5 South Atlantic	8 Mountain			2 Middle Atlantic	6 East South Central	9 Pacific			3 East North Central														
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1 New England	5 South Atlantic	8 Mountain																																
2 Middle Atlantic	6 East South Central	9 Pacific																																
3 East North Central																																		
Extended City Indicator ⁸	EXTCITIN	1	90	A/N																														
<table> <tr> <td>1 Extended city</td><td>9 Not an extended city</td><td></td><td></td><td></td></tr> </table>					1 Extended city	9 Not an extended city																												
1 Extended city	9 Not an extended city																																	
Internal Use Code ¹¹	INTUC	15	91	A/N																														

NOTE: See footnotes at the end of this section.

IDENTIFICATION SECTION—Con.

Field name	Data dictionary reference name	Field size	Starting position	Data type
Metropolitan Statistical Area/Consolidated Metropolitan Statistical Area ⁹	MSACMSA	4	106	A/N
MSA/CMSA Population Size Code	MSACMSAS	2	110	A/N

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

Place (Census) ⁹	PLACECE	4	112	A/N
Place (FIPS) ¹⁰	PLACEFP	5	116	A/N
Place Class Code	PLACECC	2	121	A/N

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

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

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

NOTE: See footnotes at the end of this section.

DATA DICTIONARY

IDENTIFICATION SECTION—Con.

Field name	Data dictionary reference name	Field size	Starting position	Data type
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- D Census designated place (CDP) that is in a 1980 or special census urbanized area (UA) and is not a central city or a central place; these CDP's must have a 1990 population of at least 300 in Hawaii and the Virgin Islands of the United States, 1,000 in Puerto Rico, and 2,500 elsewhere
- E Census designated place (CDP) not classified elsewhere; these CDP's must meet the following minimum population requirements:
- 300 in Hawaii and the Virgin Islands of the United States
 - 25 in Alaska
 - 1,000 in all other States and Puerto Rico
- F Zona urbana that is a central place of an urbanized area (UA) in Puerto Rico, but not a central city of a metropolitan statistical area/primary metropolitan statistical area (MSA/PMSA)
- G Zona urbana that is a central city of a metropolitan statistical area/primary metropolitan statistical area (MSA/PMSA) in Puerto Rico, but not a central place of an urbanized area (UA)
- H Zona urbana that is a central city of a metropolitan statistical area/primary metropolitan statistical area (MSA/PMSA) and a central place of an urbanized area (UA)
- I Zona urbana in Puerto Rico that is not a central city or a central place
- L Census designated place (CDP) entirely within an American Indian reservation and entirely outside of a 1980 or special census urbanized area (UA); these CDP's must have a 1990 population of at least 25 in Alaska and 250 elsewhere

Place Population Size Code PLACESC 2 124 A/N

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

Primary Metropolitan Statistical Area * PMSA 4 126 A/N

Region * REG 1 130 A/N

1 Northeast	2 Midwest	3 South	4 West
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State (Census) * STATECE 2 131 A/N

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

NOTE: See footnotes at the end of this section.

IDENTIFICATION SECTION—Con.

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

NOTE: See footnotes at the end of this section.

DATA DICTIONARY

IDENTIFICATION SECTION—Con.

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

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

Geographic Change User Note Indicator.....	GCUNI	1	259	A/N
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- 0 No geographic change note for the area within the summary level
- 1 See User Notes for a geographic change note

Housing Unit Count (100 percent) ¹⁵	HU100	9	260	A/N
Internal Point (latitude) ¹⁶	INTPTLAT	9	269	A/N
Internal Point (longitude) ¹⁷	INTPTLNG	10	278	A/N
Part Flag.....	PARTFLAG	1	288	A/N

- 0 Not a part
- 1 Part

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

NOTE: See footnotes at the end of this section.

IDENTIFICATION SECTION—Con.

Field name	Data dictionary reference name	Field size	Starting position	Data type
10	Island—county equivalent in Virgin Islands of the United States; "Island" is appended to the name of the entity in census publications and related data products.			
13	Municipio—county equivalent in Puerto Rico; "Municipio" is appended to the name of the entity in census publications and related data products.			
14	(none)—county equivalent; used at county level for the District of Columbia and Yellowstone National Park (Montana). No status is appended to the name of the entity in census publications and related data products.			
15	Parish—county equivalent in Louisiana; "Parish" is appended to the name of the entity in census publications and related data products.			
19	American Indian reservation—minor civil division (MCD) in Maine and New York; "Reservation" is appended to the name of the entity in census publications and related data products.			
20	Barrio—minor civil division (MCD) in Puerto Rico; "barrio" is appended to the name of the entity in census publications and related data products.			
21	Borough—minor civil division (MCD) in New York; MCD equivalent in New Jersey and Pennsylvania; "borough" is appended to the name of the entity in census publications and related data products.			
22	Census county division (CCD)—minor civil division (MCD) equivalent in 21 States; "division" is appended to the name of the entity in census publications and related data products.			
23	Census subarea—minor civil division (MCD) equivalent in Alaska; "census subarea" is appended to the name of the entity in census publications and related data products.			
24	Census subdistrict—minor civil division (MCD) equivalent in the Virgin Islands of the United States; "subdistrict" is appended to the name of the entity in census publications and related data products.			
25	City—minor civil division (MCD) equivalent in 20 States; "city" is appended to the name of the entity in census publications and related data products.			
27	District (magisterial, road)—minor civil division (MCD) in Pennsylvania, Virginia, and West Virginia; "district" is appended to the name of the entity in census publications and related data products.			
28	District (assessment, election, magisterial, supervisors', or parish governing authority)—minor civil division (MCD) in Louisiana, Maryland, Mississippi, and West Virginia; no status is appended to the name of the entity in census publications and related data products.			
29	Election precinct—minor civil division (MCD) in Illinois and Nebraska; "precinct" is appended to the name of the entity in census publications and related data products.			
30	Election precinct—minor civil division (MCD) in Illinois and Nebraska; no status is appended to the name of the entity in census publications and related data products.			
31	Gore—minor civil division (MCD) in Maine and Vermont; "gore" is appended to the name of the entity in census publications and related data products.			
32	Grant—minor civil division (MCD) in New Hampshire and Vermont; "grant" is appended to the name of the entity in census publications and related data products.			
33	Independent city—minor civil division (MCD) equivalent in Maryland, Missouri, and Virginia; "city" is appended to the name of the entity in census publications and related data products.			
34	Independent city—minor civil division (MCD) equivalent in Nevada; no status is appended to the name of the entity in census publications and related data products.			
36	Location—minor civil division (MCD) in New Hampshire; "location" is appended to the name of the entity in census publications and related data products.			
38	(none)—minor civil division (MCD) equivalent for District of Columbia and Arlington County, Virginia; no status is appended to the name of the entity in census publications and related data products.			
39	Plantation—minor civil division (MCD) in Maine; "plantation" is appended to the name of the entity in census publications and related data products.			
40	Plantation—minor civil division (MCD) in Maine; no status is appended to the name of the entity in census publications and related data products.			
41	Barrio-pueblo—minor civil division (MCD) in Puerto Rico; "barrio-pueblo" is appended to the name of the entity in census publications and related data products.			
42	Purchase—minor civil division (MCD) in New Hampshire; "purchase" is appended to the name of the entity in census publications and related data products.			
43	Town—minor civil division (MCD) in 8 States; MCD equivalent in New Jersey, Pennsylvania, and South Dakota; "town" is appended to the name of the entity in census publications and related data products.			
44	Township—minor civil division (MCD) in 16 States; "township" is appended to the name of the entity in census publications and related data products.			
45	Township—minor civil division (MCD) in Kansas, Nebraska, and North Carolina; no status is appended to the name of the entity in census publications and related data products.			

NOTE: See footnotes at the end of this section.

IDENTIFICATION SECTION—Con.

Field name	Data dictionary reference name	Field size	Starting position	Data type
46	Unorganized territory—minor civil division (MCD) in 9 States; "unorg." is appended to the name of the entity in census publications and related data products.			
47	Village—minor civil division (MCD) equivalent in New Jersey, Ohio, South Dakota, and Wisconsin; "village" is appended to the name of the entity in census publications and related data products.			
51	Subbarrio—sub-minor civil division (sub-MCD) in Puerto Rico; "subbarrio" is appended to the name of the entity in census publications and related data products.			
55	Comunidad—place (census designated place) in Puerto Rico; "comunidad" is appended to the name of the entity in census publications and related data products.			
56	Borough—place in Connecticut, New Jersey, and Pennsylvania; "borough" is appended to the name of the entity in census publications and related data products.			
57	Census designated place—place; "CDP" is appended to the name of the entity in census publications and related data products.			
58	City—place; "city" is appended to the name of the entity in census publications and related data products.			
59	City—place; used for some cities that have a unique description, no description, or a description included with their name, as follows: Anaconda-Deer Lodge County (Montana): Incorporated municipality; Butte-Silver Bow (remainder) (Montana): (none); Carson City, Nevada: (none); Columbus city (remainder) (Georgia): (none); Indianapolis city (remainder) (Indiana): (none); Jacksonville city (remainder) (Florida): (none); Lexington-Fayette (Kentucky): Urban County Government; Lynchburg-Moore County (Tennessee): (none); Milford city (remainder) (Connecticut): (none); Nashville-Davidson (remainder) (Tennessee): "Metropolitan Government of Nashville and Davidson County"; No status is appended to the name of the entity in census publications and related data products.			
60	Town—place; place in 30 States and the Virgin Islands of the United States; "town" is appended to the name of the entity in census publications and related data products.			
61	Village—place; place in 19 States; "village" is appended to the name of the entity in census publications and related data products.			
62	Zona urbana—place (census designated place) in Puerto Rico; "zona urbana" is appended to the name of the entity in census publications and related data products.			
65	Consolidated city in Connecticut, Florida, Georgia, and Indiana—"city" is appended to the name of the entity in census publications and related data products.			
66	Consolidated city—used for some consolidated cities that have unique descriptions or no descriptions, as follows: Butte-Silver Bow (Montana): (none); Nashville-Davidson (Tennessee): "Metropolitan Government of Nashville and Davidson County"; No status is appended to the name of the entity in census publications and related data products.			
68	Census region—no status is appended to the name of the entity in census publications and related data products.			
69	Census division—no status is appended to the name of the entity in census publications and related data products.			
71	Consolidated metropolitan statistical area (CMSA)—"CMSA" is appended to the name of the entity in census publications and related data products.			
72	Metropolitan statistical area (MSA)—"MSA" is appended to the name of the entity in census publications and related data products.			
73	Primary metropolitan statistical area (PMSA)—"PMSA" is appended to the name of the entity in census publications and related data products.			
75	Urbanized area (UA)—no status is appended to the name of the entity in census publications and related data products.			
77	Alaska Native Regional Corporation—no status is appended to the name of the entity in census publications and related data products.			
79	Alaska Native village statistical area—no status is appended to the name of the entity in census publications and related data products.			
80	Tribal designated statistical area—American Indian reservation equivalent for non-land-based tribes outside of Oklahoma; "TDSA" is appended to the name of the entity in census publications and related data products.			
81	Colony—American Indian reservation; "Colony" is appended to the name of the entity in census publications and related data products.			
82	Community—American Indian reservation; "Community" is appended to the name of the entity in census publications and related data products.			

NOTE: See footnotes at the end of this section.

IDENTIFICATION SECTION—Con.

Field name	Data dictionary reference name	Field size	Starting position	Data type
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- 83 Joint area—American Indian reservation equivalent; "Joint area" is appended to the name of the entity in census publications and related data products.
- 84 Pueblo—American Indian reservation; "Pueblo" is appended to the name of the entity in census publications and related data products.
- 85 Rancheria—American Indian reservation; "Rancheria" is appended to the name of the entity in census publications and related data products.
- 86 Reservation—American Indian reservation; "Reservation" is appended to the name of the entity in census publications and related data products.
- 87 Reserve—American Indian reservation; "Reserve" is appended to the name of the entity in census publications and related data products.
- 88 Tribal jurisdiction statistical area—American Indian reservation equivalent representing historic tribal areas in Oklahoma; "TJSA" is appended to the name of the entity in census publications and related data products.
- 89 Trust lands—American Indian reservation equivalent; no status is appended to the name of the entity in census publications and related data products.
- 90 (none)—American Indian reservation; no status is appended to the name of the entity in census publications and related data products.

Population Count (100 percent) ^{1a}	POP100	9	291	A/N
Special Flag.....	SPFLAG	1	300	A/N

Footnotes

1. A unique identifier for each file series. Dress rehearsal files have a "D" in the character following the last character in the file identification code for the equivalent 1990 decennial census file; for example, PL94171D is the identifier for the dress rehearsal file for the P.L. 94-171 data. File identification code for the P.L. 94-171 file is PL94171. File identification codes for summary tape files are STFnn where nn = file number; for example, STF1A is the identification for Summary Tape File 1A. File identification codes for subject summary tape files are SSTFnn where nn = the number of the subject report. File identification codes for special project files are identified by SPmmm where mmm = a three digit special project number. See How to Use This File for further information.
2. Identifies the geographic level for which the data matrices on the summary tape file have been summarized. The summary level sequence chart describes the hierarchical arrangement of the specified geographic areas with other geographic areas, if any. The summary level must be used in combination with the geographic area codes to identify a specific geographic area (for example, summary level 050 and a specific county code must be used together to locate the data for a particular county). See How to Use This File for further information.
3. Indicates an iteration (repetition), for the specified summary level, of the data matrices on the summary tape file for the geographic components listed in the Geographic Component field. See How To Use This File for further information.
4. Indicates an iteration (repetition), for the specified summary level, of the data matrices on the summary tape file for a population or housing characteristic. Only matrices containing a "B" in the prefix have characteristic iterations. See How to Use This File for further information.
5. The logical record is the complete record [identification and set of tables (matrices)] for a geographic entity defined by the summary level, but exclusive of the characteristic iteration. A logical record may have one or more parts (or segments). Each logical record has an assigned sequential integer number within the file. See How to Use This File for further information.
6. Within the logical record, each part is identified uniquely in terms of its sequence. See How to Use This File for further information.
7. This field identifies how many parts (or segments) comprise the entire logical record. See How to Use This File for further information.
8. See Appendix A, Area Classifications, for definition of this field if it is applicable to this file.

Footnotes—Con.

9. See the publication, *Geographic Identification Code Scheme*, for codes in this field and related terminology if it is applicable to this file. See Appendix A, *Area Classifications*, for definition of this field if it is applicable to this file.
10. See the publication, *Geographic Identification Code Scheme*, for FIPS 55 codes in this field and related terminology if it is applicable to this file. See Appendix A, *Area Classifications*, for definition of this field if it is applicable to this file.
11. Codes in unspecified arrangement for Census Bureau use.
12. Land area measurement in thousandths (.001) of a square kilometer. The accuracy of the area measurement is limited by the inaccuracy inherent in 1) the mapping of the various boundary features in the TIGER File and 2) rounding affecting the last digit in all operations that compute and/or sum the area measurements. Land area includes intermittent water and glaciers, which appear on census maps and in the TIGER File as hydrographic features. An area of .0005 square kilometer is rounded to .001; an area smaller than .0005 is rounded to .000. The decimal point is implied on the file. Square miles can be derived by dividing square kilometers by 2.59. See Appendix A, *Area Classifications*, for definition of this field if it is applicable to this file.
13. Water area measurement in thousandths (.001) of a square kilometer. Water area is excluded from census blocks by definition, so the water area for a block always will be zero. The accuracy of the area measurement is limited by the inaccuracy inherent in 1) the mapping of the various boundary features in the TIGER File and 2) rounding affecting the last digit in all operations that compute and/or sum the area measurements. Water area excludes intermittent water and glaciers, which are treated as land even though they appear on census maps and in the TIGER File as hydrographic features. An area of .0005 square kilometer is rounded to .001; an area smaller than .0005 is rounded to .000. The decimal point is implied on the file. Square miles can be derived by dividing square kilometers by 2.59. See Appendix A, *Area Classifications*, for definition of this field if it is applicable to this file.
14. Name of the lowest-level entity represented by the summary level. In addition to the name of the entity, the name field contains the political/statistical area description (PSAD) when appropriate, and sometimes contains the State abbreviation.

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

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

TABLE (MATRIX) SECTION

Table (matrix) number	Table (matrix)	Data dictionary reference name	Field size	Data type	Table (matrix) coordinates
P1.	Persons(1) [1] <i>Universe: Persons</i> Total _____	P0010001 _____	9 _____	N _____	1
P2.	Age(2) [2] <i>Universe: Persons</i> Under 18 years _____ 18 years and over _____	P0020001 _____ P0020002 _____	9 _____ 9 _____	N _____ N _____	1 2
H1.	Housing Units(1) [1] <i>Universe: Housing units</i> Total _____	H0010001 _____	9 _____	N _____	1
H2.	Occupancy Status(2) [2] <i>Universe: Housing units</i> Occupied _____ Vacant _____ Filler _____	H0020001 _____ H0020002 _____ H0020003 _____	9 _____ 9 _____ 9	N _____ N _____ 	1 2

APPENDIX A. Area Classifications

CONTENTS

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Census Designated Place (CDP) (See Place)	
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These definitions are for all geographic entities and concepts that the Census Bureau will include in its standard 1990 census data products for Puerto Rico. Not all entities and concepts are shown in any one 1990 census data product. For a description of geographic areas included in each data product, see appendix F.

AREA MEASUREMENT

Area measurements provide the size, in square kilometers (also in square miles in printed reports), recorded for each geographic entity for which the Census Bureau tabulates data in general-purpose data products (except crews-of-vessels entities). (Square kilometers may be

divided by 2.59 to convert an area measurement to square miles.) Area was calculated from the specific set of boundaries recorded for the entity in the Census Bureau's geographic data base (see "TIGER"). On machine-readable files, area measurements are shown to three decimal places; the decimal point is implied. In printed reports and listings, area measurements are shown to one decimal.

The Census Bureau provides measurements for both land area and total water area for the 1990 census; the water figure for Puerto Rico includes inland, coastal, and territorial water. (For the 1980 census, the Census Bureau provided area measurements for land and inland water.) The Census Bureau will provide measurements for the component types of water for the affected entities in a separate file. "Inland water" consists of any lake, reservoir, pond, or similar body of water that is recorded in the Census Bureau's geographic data base. It also includes any river, creek, canal, stream, or similar feature that is recorded in that data base as a two-dimensional feature (rather than as a single line). The portions of the ocean, related large embayments, and the Caribbean Sea that belong to the United States and its territories are considered to be "coastal" and "territorial" water. Rivers and bays that empty into these bodies of water are treated as "inland water" from the point beyond which they are narrower than one nautical mile across. Identification of land and inland, coastal, and territorial waters is for statistical purposes, and does not necessarily reflect legal definitions thereof.

By definition, census blocks do not include water within their boundaries; therefore, the water area of a block is always zero. Land area measurements may disagree with the information displayed on census maps and in the TIGER File because, for area measurement purposes, features identified as "intermittent water" are reported as land area. For this reason, it may not be possible to derive the land area for an entity by summing the land area of its component census blocks. In addition, the water area measurement reported for some geographic entities includes water that is not included in any lower-level geographic entity. Therefore, because water is contained only in a higher-level geographic entity, summing the water measurements for all the component lower-level geographic entities will not yield the water area of that higher-level entity. This occurs, for example, where water is associated with a municipio subdivision but is not assigned to any census

tract. Crews-of-vessels entities (see "Census Tract and Block Numbering Area" and "Block") do not encompass territory and therefore have no area measurements.

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

BLOCK

Census blocks are small areas bounded on all sides by visible features such as streets, roads, and streams and by invisible boundaries such as municipio and barrio limits, property lines, and short, imaginary extensions of streets and roads.

Tabulation blocks, used in census data products, are in most cases the same as collection blocks, used in the census enumeration. In some cases, collection blocks have been "split" into two or more parts required for data tabulations. Tabulation blocks do not cross the boundaries of municipios, municipio subdivisions, places, census tracts or block numbering areas, voting districts, urban or rural areas, or urbanized areas. The 1990 census is the first for which all of Puerto Rico is block-numbered.

Blocks are numbered uniquely within each census tract or BNA. A block is identified by a three-digit number, sometimes with a single alphabetical suffix. Block numbers with suffixes generally represent collection blocks that were "split" in order to identify separate geographic entities that divide the original block. For example, when a barrio boundary runs through data collection block 101, the data for the portion inside one barrio is tabulated in block 101A and the portion in the other barrio, in block 101B. A block number with the suffix "Z" represents a "crews-of-vessels" entity for which the Census Bureau tabulates data, but that does not represent a true geographic area; such a block is shown on census maps associated with an anchor symbol and a census tract or block numbering area with a .99 suffix. Some block group records may not have any block numbers associated with them; this occurs where the entire area of the block group consists only of water.

BLOCK GROUP (BG)

Geographic Block Group

A geographic block group (BG) is a cluster of blocks having the same first digit of their identifying numbers within a census tract or block numbering area (BNA). For example, BG 3 within a census tract or BNA includes all blocks numbered between 301 and 397. In most cases, the numbering involves substantially fewer

than 97 blocks. Geographic BG's never cross census tract or BNA boundaries, but may cross the boundaries of municipio subdivisions, places, urbanized areas, and voting districts. BG's generally contain between 250 and 550 housing units, with the ideal size being 400 housing units. Local officials delineated BG's for the 1990 census using Census Bureau guidelines.

Tabulation Block Group

In the data tabulations, a geographic BG may be split to present data for every unique combination of municipio subdivision, place, urbanized area, voting district, and urban/ rural shown in the data product; for example, if BG 3 is located in two barrios, there will be separate tabulated records for each portion of BG 3. BG's are used in tabulating decennial census data throughout Puerto Rico for the 1990 census, but only in block-numbered areas for the 1980 census. For purposes of data presentation, BG's are a substitute for the enumeration districts (ED's) used for reporting data in many parts of Puerto Rico for the 1980 census and throughout Puerto Rico for pre-1980 censuses.

BOUNDARY CHANGES

The boundaries of some places changed from those reported for the 1980 census. The historical counts shown for places are not updated for such changes, and thus reflect the population and housing units in the area as delineated at each census. Boundary changes are not reported for statistical areas.

CENSUS TRACT AND BLOCK NUMBERING AREA

Block Numbering Area (BNA)

Block numbering areas (BNA's) are small statistical subdivisions of a municipio for grouping and numbering blocks in municipios that do not have census tracts. The Puerto Rico Planning Board and the Census Bureau delineated BNA's for the 1990 census, using guidelines similar to those for the delineation of census tracts. BNA's do not cross municipio boundaries.

BNA's are identified by a four-digit basic number and may have a two-digit suffix; for example, 9901.07. The decimal point separating the four-digit basic BNA number from the two-digit suffix is shown in printed reports, in microfiche, and on census maps; in machine-readable files, the decimal point is implied. Many BNA's do not have a suffix; in such cases, the suffix field is left blank in all data products. BNA numbers range from 9501 through 9989.99, and are unique within a municipio (numbers in the range of 0001 through 9499.99 denote a census tract). The suffix .99 identifies a BNA that was populated entirely by persons aboard one or more

civilian or military ships. A "crews-of-vessels" BNA appears on census maps only as an anchor symbol with its BNA number (and block numbers on maps showing block numbers); the BNA relates to the ships associated with the onshore BNA's having the same four-digit basic number. Suffixes in the range .80 through .98 identify BNA's that either were revised or were created during the 1990 census data collection activities. Some of these revisions produced BNA's that have extremely small land area and may have little or no population or housing. For data analysis, such a BNA can be summarized with an adjacent BNA.

Census Tract

Census tracts are small, relatively permanent statistical subdivisions of a municipio. Census tracts in Puerto Rico are delineated for all metropolitan areas (MA's) and other highly populated municipios by the Puerto Rico Planning Board, in consultation with municipio officials and following Census Bureau guidelines. Census tracts usually have between 2,500 and 8,000 persons and, when first delineated, are designed to be homogeneous with respect to population characteristics, economic status, and living conditions. Census tracts do not cross municipio boundaries. The spatial size of census tracts varies widely depending on the density of settlement. Census tract boundaries are delineated with the intention of being maintained over a long time so that statistical comparisons can be made from census to census. However, physical changes in street patterns caused by highway construction, new development, etc., may require occasional revisions; census tracts occasionally are split due to large population growth, or combined as a result of substantial population decline. Census tracts are referred to as "tracts" in all 1990 data products.

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

Census tract numbers range from 0001 through 9499.99 and are unique within a municipio (numbers in the range of 9501 through 9989.99 denote a block numbering area). The suffix .99 identifies a census tract that was populated entirely by persons aboard one or more civilian or military ships. A "crews-of-vessels" census tract appears on census maps only as an anchor symbol with its census tract number (and block numbers on maps showing block numbers). These census tracts relate to the ships associated with the onshore census tract having the same four-digit basic

number. Suffixes in the range .80 through .98 usually identify census tracts that either were revised or were created during the 1990 census data collection activities. Some of these revisions may have resulted in census tracts that have extremely small land area and may have little or no population or housing. For data analysis, such a census tract can be summarized with an adjacent census tract.

CONGRESSIONAL DISTRICT

Puerto Rico is represented in the U.S. House of Representatives by a nonvoting delegate, referred to as a "resident commissioner."

GEOGRAPHIC CODE

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

Census Code

Census codes are assigned for a variety of geographic entities, including Puerto Rico, municipio subdivision, place, urbanized area, and voting district. The structure, format, and meaning of census codes appear in the 1990 census *Geographic Identification Code Scheme* and in the data dictionary portion of the technical documentation for summary tape files, CD-ROM's, and microfiche.

Federal Information Processing Standards (FIPS) Code

Federal Information Processing Standards (FIPS) codes are assigned for a variety of geographic entities, including congressional district, county (including statistically equivalent entities such as municipio), barrio-pueblo and barrio, metropolitan area, place, and State (including statistically equivalent entities such as Puerto Rico). The structure, format, and meaning of FIPS codes used in the census are shown in the 1990 census

Geographic Identification Code Scheme and in the data dictionary portion of the technical documentation for summary tape files, CD-ROM's, and microfiche.

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

United States Postal Service (USPS) Code

The United States Postal Service (USPS) code for Puerto Rico is used in all 1990 census data products. The code is a two-character alphabetic abbreviation: PR. The code is the same as the FIPS two-character alphabetic abbreviation.

GEOGRAPHIC PRESENTATION

Hierarchical Presentation

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

Puerto Rico
 Municipio
 Municipio subdivision
 Place (or part)
 Census tract/block numbering area (or part)
 Block group (or part)
 Block

Inventory Presentation

An inventory presentation of geographic entities is one in which all entities of the same type are shown in alphabetical or code sequence, without reference to their hierarchical relationships. Generally, an inventory presentation shows totals for entities that may be split in a hierarchical presentation, such as place, census tract/block numbering area, or block group. An example of a series of inventory presentations is: Puerto Rico, followed by all the municipios, followed by all the places in Puerto Rico. Graphically, this is shown as:

Puerto Rico

 Municipio "A"

 Municipio "B"

 Municipio "C"

 Place "X"

 Place "Y"

 Place "Z"

INTERNAL POINT

An internal point is a set of geographic coordinates (latitude and longitude) that is located within a specified geographic entity. A single point is identified for each entity; for many entities, this point may approximate the geographic center of that entity. If the shape of the entity caused this point to be located outside the boundaries of the entity, it is relocated from the center so that it is within the entity. By definition, the internal point for a block cannot fall in a body of water. On machine-readable products, internal points are shown to six decimal places; the decimal point is implied.

MUNICIPIO

The primary political divisions of Puerto Rico are termed "municipios." The Census Bureau, for statistical purposes, treats a municipio as the equivalent of a county in the United States. Each municipio is assigned a unique three-digit FIPS code in alphabetical order within Puerto Rico.

MUNICIPIO SUBDIVISION

The Census Bureau recognizes barrios-pueblos and barrios as the primary legal subdivisions (minor civil divisions, or MCD's) of municipios. The barrios-pueblos replace the "pueblos" reported in previous decennial censuses. In agreement with the Puerto Rico government, the Census Bureau no longer includes ciudades in its data tabulations.

Each municipio subdivision is assigned a three-digit census code in alphabetical order within municipio and a five-digit FIPS code in alphabetical order within Puerto Rico.

Subbarrio

Subbarrios in 23 municipios are legal subdivisions of the barrios-pueblos and some barrios. The Census Bureau presents the same types of 1990 census data for these "sub-MCD's" as it does for the barrios-pueblos and barrios. Each subbarrio is assigned a two-digit census code in alphabetical order within municipio and a five-digit FIPS code in alphabetical order within Puerto Rico.

PLACE

For the reporting of decennial census data, places in Puerto Rico consist of zonas urbanas and comunidades. Each place is assigned a four-digit census code and a five-digit FIPS code that are unique within Puerto Rico. Both the census and FIPS codes are assigned based on alphabetical order within Puerto Rico.

Because Puerto Rico does not have incorporated places—legally defined governmental units that perform services, raise taxes, and have elected officials specifically for closely settled communities—the Census Bureau recognizes only places delineated for statistical purposes. These census designated places (CDP's) are delineated by the Puerto Rico Planning Board, following Census Bureau guidelines, for the decennial census as the statistical counterparts of incorporated places in the States. Their boundaries, which usually coincide with visible features, have no legal status. CDP boundaries may change with changes in the settlement pattern; a CDP with the same name as in previous censuses does not necessarily have the same boundaries.

The Census Bureau provides data for two types of CDP's in Puerto Rico: (1) zonas urbanas, representing the governmental center of each municipio; there is no minimum population requirement for a zona urbana, and (2) comunidades (called "aldeas" in previous censuses), representing other settlements with a 1990 census population of at least 1,000. Comunidades qualified on the basis of the population counts prepared for the 1990 Postcensus Local Review Program. Because these counts were subject to change, a few may have final population counts lower than 1,000.

STATE

States are the primary governmental divisions of the United States. The District of Columbia is treated as a statistical equivalent of a State for census purposes. The Census Bureau treats the outlying areas as the equivalents of States for presenting the 1990 census data. The outlying areas include American Samoa, Guam, the Commonwealth of the Northern Mariana Islands (Northern Mariana Islands), the Republic of Palau (Palau), Puerto Rico, and the Virgin Islands of the United States (Virgin Islands).

Each State and equivalent entity is assigned a two-digit numeric Federal Information Processing Standards (FIPS) code in alphabetical order by State name, followed by the outlying area names. Each State and equivalent entity also is assigned a two-digit census code. The first digit of the code is the code for the respective division except for Puerto Rico, the Virgin Islands, and the outlying areas of the Pacific, which are

assigned "0" as the first digit because they are not part of any division. Each State and equivalent area also is assigned the two-letter FIPS/United States Postal Service (USPS) code.

TIGER

TIGER is an acronym for the new digital (computer-readable) geographic data base that automates the mapping and related geographic activities required to support the Census Bureau's census and survey programs. The Census Bureau developed the Topologically Integrated Geographic Encoding and Referencing (TIGER) System to automate the geographic support processes needed to meet the major geographic needs of the 1990 census: producing the cartographic products to support data collection and map publication, providing the geographic structure for tabulation and publication of the collected data, assigning residential and employer addresses to their geographic location and relating those locations to the Census Bureau's geographic units, and so forth. The content of the TIGER data base is made available to the public through a variety of "TIGER Extract" files that may be obtained from the Data User Services Division, Bureau of the Census, Washington, DC 20233.

UNITED STATES

The United States comprises the 50 States and the District of Columbia. In addition, the Census Bureau treats the outlying areas (see "State") as statistical equivalents of States for the 1990 census.

VOTING DISTRICT (VTD)

A voting district (VTD) is any of a variety of types of areas (for example, election districts, precincts, legislative districts) established by the Puerto Rico government for purposes of elections. For census purposes, the Puerto Rico Planning Board outlined the boundaries of VTD's around groups of whole census blocks on census maps. The entities identified as VTD's are not necessarily those legally or currently established. Also, to meet the "whole block" criterion, it may have been necessary to adjust VTD boundaries to nearby block boundaries. Therefore, the VTD's shown on the 1990 census tapes, listings, and maps may not represent the actual VTD's in effect at the time of the census.

Each VTD is assigned a four-character alphanumeric code that is unique within each municipio. The code "ZZZZ" is assigned to nonparticipating areas; the Census Bureau summarizes the areas within a municipio coded "ZZZZ" to a single data record and reports the same data items as shown for other VTD's.

APPENDIX B.

Definitions of Subject Characteristics

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DEFINITIONS OF SUBJECT CHARACTERISTICS

POPULATION CHARACTERISTICS

AGE

The data on age were derived from answers to questionnaire item 4, which was asked of all persons. The age classification is based on the age of the person in completed years as of April 1, 1990. The age response in question 4a was normally used to represent a person's age. However, when the age response was unacceptable or unavailable, a person's age was derived from an acceptable year of birth response in question 4b.

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

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

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

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

Review of detailed 1990 information indicated that respondents tended to provide their age as of the date of completion of the questionnaire, not their age as of April 1, 1990. In addition, there may have been a tendency for respondents to round their age up if they

were close to having a birthday. It is likely that approximately 10 percent of persons in most age groups are actually 1 year younger. For most single years of age, the misstatements are largely offsetting. The problem is most pronounced at age 0 because persons lost to age 1 may not have been fully offset by the inclusion of babies born after April 1, 1990 and because there may have been more rounding up to age 1 to avoid reporting age as 0 years. (Age in completed months was not collected for infants under age 1.)

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

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

GROUP QUARTERS

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

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

Type of Institution—The type of institution was determined as part of census enumeration activities. For institutions which specialize in only one specific type of

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

Correctional Institutions—Includes commonwealth prisons, military stockades and jails, police lockups, halfway houses, local jails, and other confinement facilities.

Commonwealth Prisons—Where persons convicted of crimes serve their sentences. Residents who are criminally insane were classified on the basis of where they resided at the time of enumeration: (1) in institutions (or hospital wards) operated by a commonwealth prison; or (2) in institutions operated by departments of mental health or similar agencies.

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

Local Jails and Other Confinement Facilities—Includes facilities operated by municipios that primarily hold persons beyond arraignment, usually for more than 48 hours.

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

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

Other Types of Correctional Institutions—Correctional facilities specifically for alcohol/drug abuse.

Nursing Homes—Comprises a heterogeneous group of places. The majority of patients are elderly, although persons who require nursing care because of chronic physical conditions may be found in these homes regardless of their age. Included in this category are skilled-nursing facilities, intermediate-care facilities, long-term care rooms in wards or buildings on the grounds of hospitals, or long-term care rooms/nursing wings in congregate housing facilities. Also included are nursing, convalescent, and rest homes, such as

soldiers', sailors', veterans', and fraternal or religious homes for the aged, with or without nursing care. In some census products, nursing homes are classified by type of ownership as "Commonwealth of Puerto Rico," "Private not-for-profit," and "Private for profit."

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

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

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

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

Hospitals, and Wards for Drug/Alcohol Abuse—Includes hospitals, and hospital wards in psychiatric and general hospitals. These facilities are equipped

medically and designed for the diagnosis and treatment of medical or psychiatric illnesses associated with alcohol or drug abuse. Patients receive supervised medical care from formally-trained staff.

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

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

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

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

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

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

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

Homes for the Mentally Ill—Includes community-based homes that provide care primarily for the mentally ill. In some data products, this category is classified by type of ownership as "Federal," "Commonwealth of Puerto Rico," "Private," and

"Ownership not known." Homes which combine treatment of the physically handicapped with treatment of the mentally ill are counted as homes for the mentally ill.

Homes for the Mentally Retarded—Includes community-based homes that provide care primarily for the mentally retarded. Homes which combine treatment of the physically handicapped with treatment of the mentally retarded are counted as homes for the mentally retarded. This category is classified by type of ownership in some census products, as "Commonwealth of Puerto Rico," "Private," or "Ownership not known."

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

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

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

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

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

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

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

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

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

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

Emergency Shelters for Homeless Persons (with sleeping facilities)—Includes persons who stayed overnight on March 20, 1990, in permanent and temporary emergency housing, missions, Salvation Army shelters, hotels, and motels used *entirely* for homeless persons regardless of the nightly rate charged; rooms in hotels and motels used *partially* for the homeless; and similar places known to have persons who have no usual home elsewhere staying overnight. If not shown separately, shelters and group homes which provide *temporary* sleeping facilities for runaway, neglected, and homeless children are included in this category in data products.

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

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

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

Predesignated street sites include street corners, parks, bridges, persons emerging from abandoned and boarded-up buildings, noncommercial campsites, all-night restaurants, emergency hospital waiting rooms, airports, and bus stations.

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

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

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

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

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

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

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

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

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

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

1. How well enumerators were trained and how well they followed procedures.
2. How well the list of shelter and street locations given to the Census Bureau by the local government reflected the actual places that homeless persons stay at night.
3. Municipios were encouraged to open temporary shelters for census night. Thus, people who may have been on the street otherwise were in shelters the night of March 20, so that the ratio of shelter-to-street population could be different than usual.

4. The media occasionally interfered with the ability to do the count.
5. How homeless people perceived the census and whether they wanted to be counted or feared the census and hid from it.

Comparability—For the 1990 census, the definition of institutionalized persons was revised so that the definition of "care" only includes persons under organized medical or formally-authorized, supervised care or custody. As a result of this change to the institutional definition, maternity homes are classified as noninstitutional rather than institutional group quarters as in previous censuses. The following types of other group quarters are classified as institutional rather than noninstitutional group quarters: "halfway houses (operated for correctional purposes)" and "wards in general and military hospitals for patients who have no usual home elsewhere," which includes maternity, neonatal, pediatric, military, and surgical wards of hospitals, other-purpose wards of hospitals, and wards for persons with infectious diseases. These changes should not significantly affect the comparability of data with earlier censuses because of the relatively small number of persons involved.

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

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

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

In 1990 census data products, the phrase "inmates of institutions" was changed to "institutionalized persons." Also, persons living in noninstitutional group

quarters were referred to as "other persons in group quarters," and the phrase "staff residents" was used for staff living in institutions.

In 1990, there are additional institutional categories and noninstitutional group quarters categories compared with the 1980 census. The institutional categories added include "hospitals and wards for drug/alcohol abuse" and "military hospitals for the chronically ill." The noninstitutional group quarters categories added include emergency shelters for homeless persons; shelters for runaway, neglected, and homeless children; shelters for abused women; and visible in street locations. Each of these noninstitutional group quarters categories was enumerated on March 20-21, 1990, during the "Shelter and Street Night" operation. (For more information on the "Shelter-and-Street-Night" operation, see Appendix D, Collection and Processing Procedures.)

HOUSEHOLD TYPE AND RELATIONSHIP

Household

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

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

Persons Per Household—A measure obtained by dividing the number of persons in households by the number of households (or householders).

Relationship to Householder

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

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

Spouse—Includes a person married to and living with a householder. This category includes persons in formal marriages, as well as persons classified as "consensually married."

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

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

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

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

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

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

mother-child subfamily, a father in a father-child subfamily, or either spouse in a married-couple subfamily.

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

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

Grandchild—The grandson or granddaughter of the householder.

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

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

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

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

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

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

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

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

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

Unrelated Individual

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

Family Type

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

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

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

Other Family:

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

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

Persons Per Family—A measure obtained by dividing the number of persons in families by the total number of families (or family householders).

Subfamily

A subfamily is a married couple (husband and wife enumerated as members of the same household) with or without never-married children under 18 years old, or one parent with one or more never-married children under 18 years old, living in a household and related to,

but not including, either the householder or the householder's spouse. The number of subfamilies is not included in the count of families, since subfamily members are counted as part of the householder's family.

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

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

Unmarried-Partner/Compañero Household

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

Unmarried-Couple Household

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

Foster Children

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

Stepfamily

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

Comparability—The 1990 definition of a household is the same as that used in 1980. The 1980 relationship category "Son/daughter" has been replaced by two categories, "Natural-born or adopted son/daughter" and "Stepson/stepdaughter." "Grandchild" has been added as a separate category. The 1980 nonrelative categories: "Roomer, boarder" and "Roommate" have been replaced by the categories "Roomer, boarder, or

foster child," "Housemate, roommate," and "Unmarried partner/companion." The 1980 nonrelative category "Paid employee" has been dropped.

MARITAL STATUS

The data on marital status were derived from answers to questionnaire item 5, which was asked of all persons. The marital status classification refers to the status at the time of enumeration. Data on marital status are tabulated only for persons 15 years old and over.

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

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

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

Now Married, Except Separated—Includes persons whose current marriage has not ended through widowhood, divorce, or separation (regardless of previous marital history). In certain tabulations, currently married persons are further classified as "spouse present" or "spouse absent."

Consensually Married—Includes persons living in a marital union without a civil or religious matrimonial contract and are classified as "now married;" they are reported separately as "Consensually married." The category may also include couples who live together if they consider this category the most appropriate.

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

Widowed—Includes widows and widowers who have not remarried.

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

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

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

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

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

Separated—Defined above.

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

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

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

Comparability—The 1990 marital status definitions are the same as those used in 1980 with the exception of the term "never married" which replaces the term "single" in tabulations. A general marital status question has been asked in Puerto Rico in every census since 1910.

SEX

The data on sex were derived from answers to questionnaire item 3, which was asked of all persons. For most cases in which sex was not reported, it was

determined by the appropriate entry from the person's given name and household relationship. Otherwise, sex was imputed according to the relationship to the householder and the age and marital status of the person. (For more information on imputation, see Appendix C, Accuracy of the Data.)

Sex Ratio—A measure derived by dividing the total number of males by the total number of females and multiplying by 100.

Comparability—A question on the sex of individuals has been asked of the total population in every census of Puerto Rico.

HOUSING CHARACTERISTICS

LIVING QUARTERS

Living quarters are classified as either housing units or group quarters. (For more information, see discussion of "Group Quarters" under Population Characteristics.) Usually, living quarters are in structures intended for residential use (for example, a one-family home, apartment house, hotel or motel, boarding house, or mobile home). Living quarters also may be in structures intended for nonresidential use (for example, the rooms in a warehouse where a guard lives), as well as in places such as tents, vans, shelters for the homeless, dormitories, and barracks.

Housing Units—A housing unit is a house, an apartment, a mobile home or trailer, a group of rooms or a single room occupied as separate living quarters or, if vacant, intended for occupancy as separate living quarters. Separate living quarters are those in which the occupants live and eat separately from any other persons in the building and which have direct access from outside the building or through a common hall.

The occupants may be a single family, one person living alone, two or more families living together, or any other group of related or unrelated persons who share living arrangements. For vacant units, the criteria of separateness and direct access are applied to the intended occupants whenever possible. If that information cannot be obtained, the criteria are applied to the previous occupants.

Both occupied and vacant housing units are included in the housing unit inventory, except that recreational vehicles, boats, vans, tents, and the like are included only if they are occupied as someone's usual place of residence. Vacant mobile homes are included provided they are intended for occupancy on the site where they stand. Vacant mobile homes on dealers' sales lots, or in storage yards are excluded from the housing inventory.

If the living quarters contain 9 or more persons unrelated to the householder or person in charge (a total of 10 unrelated persons), they are classified as group quarters. If the living quarters contain eight or fewer persons unrelated to the householder or person in charge, they are classified as housing units.

Occupied Housing Units—A housing unit is classified as occupied if it is the usual place of residence of the person or group of persons living in it at the time of enumeration, or if the occupants are only temporarily absent; that is, away on vacation. If all the persons staying in the unit at the time of the census have their usual place of residence elsewhere, the unit is classified as vacant. A household includes all the persons who occupy a housing unit as their usual place of residence. By definition, the count of occupied housing units for 100-percent tabulations is the same as the count of households or householders.

Vacant Housing Units—A housing unit is vacant if no one is living in it at the time of enumeration, unless its occupants are only temporarily absent. Units temporarily occupied at the time of enumeration entirely by persons who have a usual residence elsewhere are also classified as vacant. (For more information, see discussion under "Usual Home Elsewhere.")

New units not yet occupied are classified as vacant housing units if construction has reached a point where all exterior windows and doors are installed and final usable floors are in place. Vacant units are excluded if they are open to the elements; that is, the roof, walls, windows, and/or doors no longer protect the interior from the elements, or if there is positive evidence (such as a sign on the house or in the block) that the unit is condemned or is to be demolished. Also excluded are quarters being used entirely for nonresidential purposes, such as a store or an office, or quarters used for the storage of business supplies or inventory, machinery, or agricultural products.

Hotels, Motels, Rooming Houses, Etc.—Occupied rooms or suites of rooms in hotels, motels, and similar places are classified as housing units only when occupied by permanent residents; that is, persons who consider the hotel as their usual place of residence or have no usual place of residence elsewhere. Vacant rooms or suites of rooms are classified as housing units only in those hotels, motels, and similar places in which 75 percent or more of the accommodations are occupied by permanent residents.

If any of the occupants in a rooming or boarding house live and eat separately from others in the building and have direct access, their quarters are classified as separate housing units.

Staff Living Quarters—The living quarters occupied by staff personnel within any group quarters are separate

housing units if they satisfy the housing unit criteria of separateness and direct access; otherwise, they are considered group quarters.

Comparability—The first Census of Housing in 1940 established the "dwelling unit" concept. Although the term became "housing unit" and the definition has been modified slightly in succeeding censuses, the 1990 definition is essentially comparable to previous censuses. There was no change in the housing unit definition between 1980 and 1990.

BATHTUB OR SHOWER

The data on bathtub or shower were obtained from questionnaire item H4b, which was asked at both occupied and vacant housing units. A bathtub or shower must be connected permanently to piped water and located inside the house, apartment, or mobile home.

Comparability—Since 1970 a separate question on bathtub or shower has been asked in Puerto Rico. In 1970 and 1980, the question referred to bathtub or shower in the building where the housing unit was located, and data were shown only for year-round housing units. In 1990, the question asks for bathtub or shower inside the unit, and the data are shown for all housing units.

BOARDED-UP STATUS

Boarded-up status was obtained from questionnaire item C2 and was determined for all vacant units. Boarded-up units have windows and doors covered by wood, metal, or masonry to protect the interior and to prevent entry into the building. A single-unit structure, a unit in a multi-unit structure, or an entire multi-unit structure may be boarded-up in this way. For certain census data products, boarded-up units are shown only for units in the "Other vacant" category. A unit classified as "Usual home elsewhere" can never be boarded up. (For more information, see the discussion under "Usual Home Elsewhere.")

Comparability—This item was first asked in the 1980 census and was shown only for year-round vacant housing units. In 1990, data are shown for all vacant housing units.

COMMERCIAL ESTABLISHMENT ON PROPERTY

The data for commercial establishment on property were obtained from questionnaire item H7b, which was asked at all occupied and vacant one-family houses and

mobile homes. This question is used to exclude owner-occupied one-family houses with a commercial establishment or medical office on the property from certain statistics on financial characteristics.

A commercial establishment must be easily recognizable from the outside. It will usually have a separate outside entrance and have the appearance of a business, such as a grocery store, restaurant, or barber-shop. It may be either attached to the house or mobile home or be located elsewhere on the property. Those housing units in which a room is used for business or professional purposes and have no recognizable alterations to the outside are *not* considered as having a business. Medical offices are considered businesses for tabulation purposes.

Comparability—Data on commercial establishment on property have been collected since 1940.

CONDOMINIUM STATUS

The data on condominium housing units were obtained from questionnaire item H5, which was asked at both occupied and vacant housing units. Condominium is a type of ownership that enables a person to own an apartment or house in a development of similarly owned units and to hold a common or joint ownership in some or all of the common areas and facilities such as land, roof, hallways, entrances, elevators, swimming pool, etc. Condominiums may be single-family houses as well as units in apartment buildings. A condominium unit need not be occupied by the owner to be counted as such. A unit classified as "mobile home or trailer" or "other" (see discussion under "Units in Structure") cannot be a condominium unit.

Limitation of the Data—Testing done in the United States prior to the 1980 and 1990 census indicated that the number of condominiums may be slightly overstated. The same situation may also be true for Puerto Rico.

Comparability—In 1970, condominiums were grouped together with cooperative housing units, and the data were reported only for owner-occupied cooperatives and condominiums. Beginning in 1980, the census identified all condominium units, and the data were shown for renter-occupied and vacant-year-round condominiums as well as owner occupied. In 1970, 1980, and 1990, the question on condominiums was asked on a 100-percent basis in Puerto Rico. In 1990, the question was asked on a sample basis in the United States.

CONTRACT RENT

The data on contract rent (also referred to as "rent asked" for vacant units) were obtained from questionnaire item H9, which was asked at all occupied housing units that were rented for cash rent and all vacant housing units that were for rent at the time of enumeration.

Housing units that are renter occupied without payment of cash rent are shown separately as "No cash rent" in census data products. The unit may be owned by friends or relatives who live elsewhere and who allow occupancy without charge. Rent-free houses or apartments may be provided to compensate caretakers, ministers, tenant farmers, sharecroppers, or others.

Contract rent is the monthly rent agreed to or contracted for, regardless of any furnishings, utilities, fees, meals, or services that may be included. For vacant units, it is the monthly rent asked for the rental unit at the time of enumeration.

If the contract rent includes rent for a business unit or for living quarters occupied by another household, the respondent was instructed to report that part of the rent estimated to be for his or her unit only. Respondents were asked to report rent only for the housing unit enumerated and to exclude any rent paid for additional units or for business premises.

If a renter pays rent to the owner of a condominium or cooperative, and the condominium fee or cooperative carrying charge is also paid by the renter to the owner, the respondent was instructed to include the fee or carrying charge.

If a renter receives payments from lodgers or roomers who are listed as members of the household, the respondent was instructed to report the rent without deduction for any payments received from the lodgers or roomers. The respondent was instructed to report the rent agreed to or contracted for even if paid by someone else such as friends or relatives living elsewhere, or a church or welfare agency.

In some tabulations, contract rent is presented for all renter-occupied housing units, as well as specified renter-occupied and specified vacant-for-rent units. Specified renter-occupied and specified vacant-for-rent units exclude one-family houses on 3 or more cuerdas. (For more information on rent, see the discussion under "Gross Rent" in census products containing sample data.)

Median and Quartile Contract Rent—The median divides the rent distribution into two equal parts. Quartiles divide the rent distribution into four equal parts. In computing median and quartile contract rent, units reported as "No cash rent" are excluded. Median and quartile rent calculations are rounded to the nearest whole dollar. (For more information on medians and quartiles, see the discussion under "Derived Measures.")

Aggregate Contract Rent—To calculate aggregate contract rent, the amount assigned for the category "less than \$60" is \$50. The amount assigned to the category "\$1,000 or more" is \$1,250. Mean contract rent is rounded to the nearest whole dollar. (For more information on aggregates and means, see the discussion under "Derived Measures.")

Comparability—Data on this item have been collected since 1930. For 1990, quartiles were added because the range of rents and values in Puerto Rico has increased in recent years. Upper and lower quartiles can be used to note large rent and value differences among various geographic areas.

DURATION OF VACANCY

The data for duration of vacancy (also referred to as "months vacant") were obtained from questionnaire item D, which was completed by census enumerators. The statistics on duration of vacancy refer to the length of time (in months and years) between the date the last occupants moved from the unit and the time of enumeration. The data, therefore, do not provide a direct measure of the total length of time units remain vacant.

For newly constructed units which have never been occupied, the duration of vacancy is counted from the date construction was completed. For recently converted or merged units, the time is reported from the date conversion or merger was completed. Units occupied by an entire household with a usual home elsewhere are assigned to the "Less than 1 month" interval.

Comparability—Similar data have been collected since 1960. In 1970 and 1980, these data were shown only for year-round housing units. In 1990, these data are shown for all housing units.

NUMBER OF CUERDAS

The data on cuerdas were obtained from questionnaire item H7a, which was asked at all occupied and vacant one-family houses and mobile homes. The land may consist of more than one tract or plot. These tracts or plots are usually adjoining; however, they may be separated by a road or creek, or another piece of land. This question is used to exclude owner-occupied and renter-occupied one-family houses on a property of 3 or more cuerdas from certain statistics on financial characteristics.

Comparability—A question on number of cuerdas has been asked in each census since 1970. The question was asked for one-family houses only. For the first time, the 1990 census asked this question for mobile homes.

PERSONS IN UNIT

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

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

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

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

PERSONS PER ROOM

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

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

PLUMBING FACILITIES

The data on plumbing facilities were obtained from questionnaire items H4a through 4d, which were asked at both occupied and vacant housing units. In Puerto Rico, complete plumbing facilities include hot and cold (or only 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 plumbing 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 (or only cold) piped water, a bathtub or

shower, and a flush toilet inside the building, for the exclusive use of the residents of the unit being enumerated. In 1990, the Census Bureau dropped the requirement of exclusive use from the definition of complete plumbing facilities. Also in 1990, the facilities must be located inside the unit. In 1970 and 1980, the data on plumbing facilities were shown only for year-round housing units. In 1990, these data are shown for all housing units.

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, 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.

TENURE

The data for tenure were obtained from questionnaire item H6, which was asked at all occupied housing units. All occupied housing units are classified as either owner occupied or renter occupied.

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

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

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 a 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 1910. 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.

TOILET FACILITIES

The data on toilet facilities were obtained from questionnaire items H4c and H4d, which were asked at both occupied and vacant housing units. A flush toilet is connected to piped water and is emptied into a main sewer, a septic tank or a cesspool.

Comparability—Since 1940, a separate question on presence of toilet facilities has been asked in Puerto Rico. In 1970 and 1980, the question referred to toilet facilities in the building where the unit was located. In 1990, the question asked for toilet facilities inside the unit. For the three censuses, if the unit did not have a flush toilet, the respondents were asked to identify the type of toilet facilities they had. In 1970, only a sample of the units were asked to provide that identification. In 1970 and 1980, data on toilet facilities were shown only for year-round housing units. In 1990, these data are shown for all housing units.

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 or 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 structure; 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 which 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 are also included.

1-Unit, Attached—This is a 1-unit structure which 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 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, 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. The 1980 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 were obtained from questionnaire item E, 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 were tabulated for the first time in 1980.

VACANCY STATUS

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

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

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

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

For Seasonal, Recreational, or Occasional Use—These are vacant units used or intended for use only in certain seasons or for weekend or other occasional use throughout the year. Seasonal units include those used for summer or winter sports or recreation, such as beach cottages and hunting cabins. Interval ownership units, sometimes called shared ownership or time-sharing condominiums, also are included here.

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

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

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

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

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

VALUE

The data on value (also referred to as "price asked" for vacant units) were obtained from questionnaire item H8, 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 is owned or being bought, but the land on which it sits is not, the respondent was asked to estimate the combined value of the house or mobile home and the land. For vacant units, value is the price asked for the property.

Value is tabulated separately for all owner-occupied and vacant-for-sale-only housing units, owner-occupied and vacant-for-sale mobile homes or trailers, and specified owner-occupied and specified vacant-for-sale-only housing units. Specified owner-occupied and specified vacant-for-sale-only housing units include only one-family houses on less than 3 cuerdas without a commercial establishment or medical office on the property. The data for "specified" units exclude mobile homes, houses with a commercial establishment or medical office, houses on 3 or more cuerdas, and housing units in multi-unit buildings. A cuerda is approximately 0.97 acres.

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

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

Comparability—In 1980, value was asked only at owner-occupied or vacant-for-sale one-family houses on less than 3 cuerdas with no commercial establishment 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. For 1990, quartiles have been added because the range of values and rents in Puerto Rico has increased in recent years. Upper and lower quartiles can be used to note large value and rent differences among various geographic areas.

WATER SUPPLY

The data on water supply (also referred to as "piped water") were obtained from questionnaire item H4a,

which was asked at both occupied and vacant housing units. Piped water means a supply of water is available at the sink, wash basin, bathtub, or shower.

Comparability—Since 1940, a separate question on piped water has been asked in Puerto Rico. In 1970 and 1980, the question referred to piped water in the building where the unit was located. In 1990, the question asked for piped water inside the unit. In 1970 and 1980, data on piped water were shown only for year-round housing units. In 1990, these data are shown for all housing units.

DERIVED MEASURES

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

Interpolation

Interpolation is frequently used in calculating medians or quartiles based on interval data and in approximating standard errors from tables. Linear interpolation is used to estimate values of a function between two known values. "Pareto interpolation" is an alternative to linear interpolation. It is used by the Census Bureau in calculating median income within intervals wider than \$2,500. In Pareto interpolation, the logarithm of 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 an open-ended distribution, the median is shown as the initial value of the interval followed by a plus sign (+), or 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 and are used 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 the quotient of two numbers which provides a relative measure of difference.

Quartile

This measure divides a distribution into four 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 range. Quartiles are presented for certain financial characteristics such as housing value and rent.

APPENDIX C.

Accuracy of the Data

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CONFIDENTIALITY OF THE DATA

To maintain confidentiality as 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, and housing units. As a result, a small amount of uncertainty is introduced into some of the census characteristics to prevent identification of specific individuals, households, or housing units. The confidentiality edit is controlled so that the counts of total persons, of persons aged 18 years and over, and total counts for housing units by tenure are not affected by this edit.

The confidentiality edit is conducted by selecting a sample of census households from the 100-percent data internal census files and interchanging its data with other households that have identical characteristics on a set of selected key variables, but are in different geographic locations within Puerto Rico. To provide more protection for "small areas," a higher sampling rate was used for these areas. The net result of this procedure is that the data user's ability to obtain census data, particularly for small areas and subpopulation groups, has been enhanced significantly while maintaining confidentiality of individual responses.

EDITING OF UNACCEPTABLE DATA

The objective of the processing operation is to produce a set of data that describe the population as clearly and accurately as possible. To meet this objective, questionnaires were edited and reviewed by crew leaders during field data collection operations for consistency, coverage, completeness, and acceptability. Questionnaires also were reviewed by census clerks in the district offices for omissions, certain inconsistencies, and population coverage. For example, write-in entries such as "Don't know" or "NA" were considered unacceptable in certain quantities and/or in conjunction with other data omissions.

As a result of this review operation, a telephone or personal visit follow-up was made to obtain missing information. Potential coverage errors were included in

the follow-up, as well as questionnaires with omissions or inconsistencies beyond the completeness and quality tolerances specified in the review procedures.

Subsequent to the field operations, remaining incomplete or inconsistent information on the questionnaires was assigned using imputation procedures during the final automated edit of the collected data. Allocations, or computer assignments of acceptable data 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. For example, 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 for the person(s) and/or housing unit without characteristic data. The assignment of the full set of housing characteristics occurred when no housing information was available. If the housing unit was determined to be occupied, the housing and person characteristics as well as the number of persons 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.

SOURCES OF ERROR

In any large-scale statistical operation, such as the 1990 decennial census, human- and machine-related errors occur. These errors commonly are referred to as nonsampling errors. Such errors include not enumerating every household or every person in the population, not obtaining all required information from the respondents, obtaining incorrect or inconsistent information, and recording information incorrectly. In addition, errors

can occur during the field review of the enumerators' work, during clerical handling of the census questionnaires, or during the electronic processing of the questionnaires.

To reduce various types of nonsampling errors, a number of techniques were implemented during the planning, data collection, and data processing activities. Quality assurance methods were used throughout the data collection and processing phases of the census to improve the quality of the data. A reinterview program was designed to minimize undercoverage and content errors in the data collection phase for enumerator-filled questionnaires.

Several coverage improvement programs were implemented during the census enumeration and processing to minimize undercoverage of the population and housing units. These programs were developed based on experience from the 1980 decennial census and results from the 1990 United States decennial census testing cycle.

A quality assurance program, designed to improve coverage, began with an advance listing of addresses. Advance listers collected addresses and recorded map spots for a sample of housing units. The quality assurance check consisted of matching the advance listed addresses and map spots to the enumerator's complete address register area listing. If the number of non-matches exceeded a predetermined level, then a recheck of the address register area was required.

Telephone and personal visit follow-ups also contributed to improved coverage. A recheck of units initially classified as vacant or nonexistent was utilized to improve further the coverage of persons and housing units. Local officials participated in a post-census local review and census enumerators conducted additional recanvassing. Computer and clerical edits were aimed at improving the quality and consistency of the data.

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 Puerto Rico 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. As in previous censuses, persons in Puerto Rico specifically excluded from the census were foreign travelers who had not established a residence in Puerto Rico.

Persons with a usual residence outside Puerto Rico were not enumerated in the 1990 census of Puerto Rico. On the other hand, persons temporarily overseas were to be enumerated at their usual residence in Puerto Rico.

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

that 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 happened to be staying on April 1, 1990.

Persons temporarily away from their usual residence, whether in Puerto Rico, 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 U.S. Armed Forces—Members of the U.S. 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 U.S. Armed Forces personnel were counted where they were living on Census Day (for example, with the U.S. Armed Forces person or at another location).

Each U.S. Navy ship not deployed to the 6th or 7th Fleet was attributed to the municipio in Puerto Rico or the locality in the United States that the Department of the Navy designated as its homeport. If the homeport included more than one municipio in Puerto Rico or more than one locality in the United States, ships berthed there on Census Day were assigned by the U.S. Bureau of the Census to the municipio in Puerto Rico or the locality in the United States 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 municipio in Puerto Rico or the locality in the United States named on the Department of the Navy's homeport list. These rules also apply to U.S. Coast Guard vessels.

Personnel assigned to each U.S. 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 U.S. Navy ships deployed to the 6th or 7th Fleet on Census Day were considered to be part of the U.S. overseas population.

Persons on U.S. Maritime Ships—Persons aboard U.S. 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 Puerto Rico, the United States, or its other territories.
2. The port of departure if the ship was at sea, provided the port was in Puerto Rico, the United States, or its other territories.
3. The port of destination in Puerto Rico, the United States, or its other territories, if the port of departure of a ship at sea was a foreign port.
4. The overseas population if the ship was docked at a foreign port or was at sea between foreign ports.

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 Commonwealth of Puerto Rico prisons; local jails; 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—In some parts of the island, Hurricane Hugo, which struck in September 1989, 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 of Puerto Rico was conducted through a combination of self-enumeration and personal interview. This method, formerly known as conventional or door-to-door enumeration, is called list/enumerate.

Spanish-language short-form questionnaires were delivered to residences by the United States Postal Service (USPS) 1 week before Census Day (April 1, 1990) in an unaddressed packet. The questionnaire packet also included general information about the 1990 census and instructions to the respondents explaining how to complete the questionnaire. English-language questionnaires were available on request.

During the enumeration of housing units in Puerto Rico, enumerators used one of the following questionnaires:

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 the 100-percent questions. (This questionnaire contained the same items as the questionnaire delivered by the USPS 1 week before Census Day, but was designed to be administered by the enumerator during personal interviews.)
2. A long-form questionnaire that contained the 100-percent items and a number of additional questions; a sampling procedure was used to determine those housing units that were to answer the long-form questionnaire. This form was used by enumerators during personal interviews; thus, there were no respondent instructions.

These forms were keyable documents similar in content to the stateside forms. The Puerto Rico forms, however, included a number of questions specifically designed to meet Puerto Rico's data needs. The sampling rate used in the 1990 Census of Puerto Rico required that one in every six housing units (about 17 percent) answer the long-form or sample questionnaire.

Enumeration of Housing Units

Starting a week before Census Day, enumerators canvassed their assigned areas, created a list of all housing units, completed long-form questionnaires required, picked up the completed short-form questionnaires delivered by the USPS, or completed a short-form questionnaire as necessary.

Field Followup

Followup enumerators visited those housing units for which questionnaires were missing and those initially identified as vacant to obtain a completed questionnaire or to verify the vacancy status of the unit as of Census Day.

Coverage and Edit-Failure Followup—The enumerators conducted an initial check of the questionnaires for completeness and consistency. The census office staff performed additional coverage and edit checks. Those households whose questionnaires did not meet specific quality standards because of incomplete or inconsistent information were contacted by telephone or by personal visit during the Field Followup operation to obtain the missing information or rectify the inconsistencies.

Special Enumeration Procedures

Special procedures and questionnaires were used for the enumeration of persons in group quarters such as college dormitories, nursing homes, prisons, military

barracks, and ships. The questionnaires (Individual Census Reports, Military Census Reports, and Shipboard Census Reports) included the 100-percent population questions but did not include any housing questions. In all group quarters, all persons were asked the basic population questions; in most group quarters, additional questions were asked of a sample (one-in-six) of persons.

Shelter and Street Night (S-Night)

The Census Bureau collected data for various components of the homeless population at different stages in the 1990 census. "Shelter and Street Night" (S-Night) was a special census operation to count the population in four types of locations where homeless people are found. On the evening of March 20, 1990, and during the early morning hours of March 21, 1990, enumerators counted persons in pre-identified locations:

1. Emergency shelters for homeless persons, with sleeping facilities (public and private; permanent and temporary).
2. Shelters with temporary lodging for runaway, neglected, and homeless children.
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 (regardless of cost) used entirely to shelter homeless persons, and pre-identified rooms in hotels and motels used for homeless persons and families, and similar places known to have persons who have no usual home elsewhere staying overnight. 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 New York Regional Census Center (RCC) mailed a certified letter (Form D-33(L) PR(S)) to the mayor of each municipio requesting that he/she identify:

1. All shelters with sleeping facilities (permanent and temporary, such as churches, armories, public buildings, and so forth, that could be open on March 20).
2. Hotels and motels used to house homeless persons and families.
3. A list of outdoor locations where homeless persons tend to be at night.
4. Places such as bus stations, airports, hospital emergency rooms, and so forth, where homeless persons seek shelter at night.
5. The specific addresses of abandoned or boarded-up buildings where homeless persons were thought to stay at night.

The letter from the RCC to the municipios emphasized the importance of listing night-time congregating sites. The list of shelters was expanded using information from other informed local sources. The street sites were limited to the list provided by the municipios. All municipios were eligible for "Shelter and Street Night." The Census Bureau encouraged persons familiar with homeless persons and the homeless themselves to apply as enumerators.

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 question 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.

The "street" count was restricted to persons who were visible when the enumerator came to the open, public locations that had been identified by each municipio. Homeless persons who were well hidden, moving about, or in locations other than those identified 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 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). This operation was 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 stations. 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.

PROCESSING PROCEDURES

The Puerto Rico questionnaires were processed in a section of the Census Bureau Processing Office in Jacksonville, Florida specifically set up for the processing of keyable documents. For most items on the questionnaire, the information supplied by the respondent or obtained by the enumerator had been indicated by marking the answers in predesignated boxes.

The data processing was performed in several stages. All questionnaires passed through a check-in procedure upon their arrival at the processing office. Selected written entries on both the short and long forms were coded clerically. The coded information included written entries for industry and occupation, migration, place of birth, and household relationship. All responses to the questions on Individual Census Reports (ICRs), Military Census Reports (MCRs), and Shipboard Census Reports (SCRs) were keyed. After all coding operations were completed, the short and long forms were keyed. The resulting file was sent to the Census Bureau headquarters for computer editing, weighting, and tabulating operations.

APPENDIX E.

Facsimiles of Respondent Instructions and Questionnaire Pages

(Respondent Instructions for the short-form questionnaire were available in Spanish only.)

OMB No. 0607-0656. Approval Expires 12/31/90

<p>FORM D-1A PR(E)</p> <p style="text-align: center;">1990 CENSUS OF PUERTO RICO</p>		<p style="text-align: center;">U.S. DEPARTMENT OF COMMERCE BUREAU OF THE CENSUS</p> <p>NOTICE — Response to this inquiry is required by law (Title 13, U.S. Code). By the same law, your report to the Census Bureau is confidential. It may be seen only by sworn Census Bureau employees and may be used only for statistical purposes.</p> <p style="text-align: center;">INTRODUCTION</p> <p>• FOR PERSONAL VISIT Hello, my name is (Your name) and I'm from the United States Census Bureau. This is my identification (PAUSE) and here's some information about the purpose of my visit. (Give respondent copy of Privacy Act Notice). NEXT: Ask the questions at the top of the listing page. Obtain a completed form from each address.</p> <p>• FOR TELEPHONE INTERVIEW Hello, my name is (Your name) and I'm calling for the United States Census Bureau. Have I reached (Read address)? IF YES — We are taking the 1990 Census of Puerto Rico and our records show that we have not been able to obtain a census form for this address. I'd like to complete the form now over the telephone. For the average household, this interview should take about 8 minutes. IF NO — Excuse me, I might have dialed the wrong number. Is this (Read phone number)?</p>			
FOR CENSUS USE					
A1. DO code	A2. Unit ID	A3. ARA	A4. Block	B. Map spot	C. Form type S
D. Population	E. Type of Unit Occupied 3 <input type="checkbox"/> First Form 4 <input type="checkbox"/> Continuation Vacant 1 <input type="checkbox"/> Regular 2 <input type="checkbox"/> UHE	F1. Complete after 1 <input type="checkbox"/> LR 3 <input type="checkbox"/> MV 5 <input type="checkbox"/> TC 7 <input type="checkbox"/> P4 9 <input type="checkbox"/> SM 2 <input type="checkbox"/> P/F 4 <input type="checkbox"/> ED 6 <input type="checkbox"/> RE 8 <input type="checkbox"/> IA 0 <input type="checkbox"/> P1			F2. Coverage 1 <input type="checkbox"/> 1b 2 <input type="checkbox"/> 1a
G. Mailing address — Number, street, apartment number or location, rural route and box, post office box					
City		Municipio		ZIP Code	
H. Method of completion — Mark (X) ONE box 1 <input type="checkbox"/> Personal visit 2 <input type="checkbox"/> Telephone		I. Respondent's name		J. Respondent's telephone number (509)	
O. CERTIFICATION — I certify that the entries I have made on this questionnaire are true and correct to the best of my knowledge.					
Enumerator's signature				Date	
Crew leader's initials		Date		CLD number	
NOTES					

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.

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

1 a. Please give me the name of each person living here on Sunday, April 1, including all persons staying here who have no other home. If EVERYONE is staying here temporarily and usually lives somewhere else, give me the name of each person. Begin with the household member in whose name the home is owned, being bought, or rented. If there is no such person, start with any adult household member. Print last name, first name, and middle initial for each person.

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

1 b. If EVERYONE listed above is staying here only temporarily and usually lives somewhere else, mark (X) this box ☐ and ask — Where do these people usually live? DO NOT PRINT THE ADDRESS LISTED IN ITEM G ON THE FRONT COVER.

House number	Street or road/Rural route and box number	Apartment number
City	State or Puerto Rico	ZIP Code
County/Municipio/Foreign country	Names of nearest intersecting streets or roads	

<p>Please fill one column → for each person listed in Question 1a on page 1.</p>	PERSON 1	PERSON 2
	Last name	Last name
	First name Middle initial	First name Middle initial
<p>Do not ask for Person 1.</p> <p>2. How is . . . related to (Person 1)?</p> <p>Mark (X) ONE box for each person.</p> <p>If Other relative of person in column 1, mark (X) the box and print exact relationship, such as mother-in-law, grandparent, son-in-law, niece, cousin, and so on.</p>	<p>START in this column with the household member (or one of the members) in whose name the home is owned, being bought, or rented.</p> <p>If there is no such person, start in this column with any adult household member.</p>	<p>If a RELATIVE of Person 1:</p> <p>1 <input type="checkbox"/> Husband/wife</p> <p>2 <input type="checkbox"/> Natural-born or adopted son/daughter</p> <p>3 <input type="checkbox"/> Stepson/stepdaughter</p> <p>4 <input type="checkbox"/> Brother/sister</p> <p>5 <input type="checkbox"/> Father/mother</p> <p>6 <input type="checkbox"/> Grandchild</p> <p>7 <input type="checkbox"/> Other relative 7</p> <div style="border: 1px dashed black; width: 150px; height: 20px; margin: 5px 0;"></div> <div style="border: 1px solid black; width: 40px; height: 20px; margin: 5px 0;"></div> <p>If NOT RELATED to Person 1:</p> <p>8 <input type="checkbox"/> Roomer, boarder, or foster child</p> <p>9 <input type="checkbox"/> Housemate, roommate</p> <p>10 <input type="checkbox"/> Unmarried partner/Compañero</p> <p>11 <input type="checkbox"/> Other nonrelative</p>
<p>3. Is . . . male or female?</p> <p>Mark (X) ONE box for each person.</p>	<p>1 <input type="checkbox"/> Male</p> <p>2 <input type="checkbox"/> Female</p>	<p>1 <input type="checkbox"/> Male</p> <p>2 <input type="checkbox"/> Female</p>
<p>4. Age and year of birth</p> <p>a. How old is . . . ?</p> <p>(Age should be as of April 1, 1990.)</p> <p>If unknown, say —</p> <p>Please give me your best estimate.</p> <p>Print the age in the boxes.</p> <p>b. In what year was . . . born?</p> <p>Print the year of birth in the boxes.</p>	<p>a. Age <div style="border: 1px solid black; display: inline-block; width: 40px; height: 20px; vertical-align: middle;"></div></p> <p>b. Year of birth <div style="border: 1px solid black; display: inline-block; width: 60px; height: 20px; vertical-align: middle; text-align: center;">1</div></p>	<p>a. Age <div style="border: 1px solid black; display: inline-block; width: 40px; height: 20px; vertical-align: middle;"></div></p> <p>b. Year of birth <div style="border: 1px solid black; display: inline-block; width: 60px; height: 20px; vertical-align: middle; text-align: center;">1</div></p>
<p>5. Is . . . now married, consensually married, widowed, divorced, separated, or has . . . never been married?</p> <p>Mark (X) ONE box for each person.</p>	<p>1 <input type="checkbox"/> Now married</p> <p>2 <input type="checkbox"/> Consensually married</p> <p>3 <input type="checkbox"/> Widowed</p> <p>4 <input type="checkbox"/> Divorced</p> <p>5 <input type="checkbox"/> Separated</p> <p>6 <input type="checkbox"/> Never married</p>	<p>1 <input type="checkbox"/> Now married</p> <p>2 <input type="checkbox"/> Consensually married</p> <p>3 <input type="checkbox"/> Widowed</p> <p>4 <input type="checkbox"/> Divorced</p> <p>5 <input type="checkbox"/> Separated</p> <p>6 <input type="checkbox"/> Never married</p>

PERSON 7	
Last name	
First name	Middle initial
<p>If a RELATIVE of Person 1:</p> <p>1 <input type="checkbox"/> Husband/wife</p> <p>2 <input type="checkbox"/> Natural-born or adopted son/daughter</p> <p>3 <input type="checkbox"/> Stepson/stepdaughter</p> <p>4 <input type="checkbox"/> Brother/sister</p> <p>5 <input type="checkbox"/> Father/mother</p> <p>6 <input type="checkbox"/> Grandchild</p> <p>7 <input type="checkbox"/> Other relative</p> <p>_____</p> <p>_____</p>	
<p>If NOT RELATED to Person 1:</p> <p>8 <input type="checkbox"/> Roomer, boarder, or foster child</p> <p>9 <input type="checkbox"/> Housemate, roommate</p> <p>10 <input type="checkbox"/> Unmarried partner/Companero</p> <p>11 <input type="checkbox"/> Other nonrelative</p>	
<p>1 <input type="checkbox"/> Male</p> <p>2 <input type="checkbox"/> Female</p>	
<p>a. Age</p> <p>_____</p>	
<p>b. Year of birth</p> <p>1 _____</p>	
<p>1 <input type="checkbox"/> Now married</p> <p>2 <input type="checkbox"/> Consensually married</p> <p>3 <input type="checkbox"/> Widowed</p> <p>4 <input type="checkbox"/> Divorced</p> <p>5 <input type="checkbox"/> Separated</p> <p>6 <input type="checkbox"/> Never married</p>	

NOW PLEASE ASK QUESTIONS H1a-H9 FOR THIS HOUSEHOLD

<p>H1a. When you told me the names of persons living here on April 1, did you leave anyone out because you were not sure if the person should be listed — for example, someone temporarily away on a business trip or vacation, a newborn baby still in the hospital, or a person who stays here once in a while and has no other home?</p> <p>1 <input type="checkbox"/> Yes — Determine if you should add the person(s) based on the instructions for Question 1a.</p> <p>2 <input type="checkbox"/> No</p>		<p>H6. Is this (house/apartment) —</p> <p>1 <input type="checkbox"/> Owned by you or someone in this household with a mortgage or loan?</p> <p>2 <input type="checkbox"/> Owned by you or someone in this household free and clear (without a mortgage)?</p> <p>3 <input type="checkbox"/> Rented for cash rent?</p> <p>4 <input type="checkbox"/> Occupied without payment of cash rent?</p>																																					
<p>b. When you told me the names of persons living here on April 1, did you include anyone even though you were not sure that the person should be listed — for example, a visitor who is staying here temporarily or a person who usually lives somewhere else?</p> <p>1 <input type="checkbox"/> Yes — Determine if you should delete the person(s) based on the instructions for Question 1a.</p> <p>2 <input type="checkbox"/> No</p>		<p>Ask only if this is a ONE-FAMILY HOUSE —</p> <p>H7a. Is this house on a property of 3 or more acres?</p> <p>1 <input type="checkbox"/> Yes</p> <p>2 <input type="checkbox"/> No</p>																																					
<p>H2. Which best describes this building? Include all apartments, flats, etc., even if vacant.</p> <p>1 <input type="checkbox"/> A mobile home or trailer</p> <p>2 <input type="checkbox"/> A one-family house detached from any other house</p> <p>3 <input type="checkbox"/> A one-family house attached to one or more houses</p> <p>4 <input type="checkbox"/> A building with 2 apartments</p> <p>5 <input type="checkbox"/> A building with 3 or 4 apartments</p> <p>6 <input type="checkbox"/> A building with 5 to 9 apartments</p> <p>7 <input type="checkbox"/> A building with 10 to 19 apartments</p> <p>8 <input type="checkbox"/> A building with 20 to 49 apartments</p> <p>9 <input type="checkbox"/> A building with 50 or more apartments</p> <p>10 <input type="checkbox"/> Other</p>		<p>Ask only if someone in this household OWNS or IS BUYING this house or apartment —</p> <p>H8. What is the value of this property; that is, how much do you think this (house and lot/condominium unit) would sell for if it were for sale?</p> <table border="0"> <tr> <td>1 <input type="checkbox"/> Less than \$10,000</td> <td>14 <input type="checkbox"/> \$70,000 to \$74,999</td> </tr> <tr> <td>2 <input type="checkbox"/> \$10,000 to \$14,999</td> <td>15 <input type="checkbox"/> \$75,000 to \$79,999</td> </tr> <tr> <td>3 <input type="checkbox"/> \$15,000 to \$19,999</td> <td>16 <input type="checkbox"/> \$80,000 to \$89,999</td> </tr> <tr> <td>4 <input type="checkbox"/> \$20,000 to \$24,999</td> <td>17 <input type="checkbox"/> \$90,000 to \$99,999</td> </tr> <tr> <td>5 <input type="checkbox"/> \$25,000 to \$29,999</td> <td>18 <input type="checkbox"/> \$100,000 to \$124,999</td> </tr> <tr> <td>6 <input type="checkbox"/> \$30,000 to \$34,999</td> <td>19 <input type="checkbox"/> \$125,000 to \$149,999</td> </tr> <tr> <td>7 <input type="checkbox"/> \$35,000 to \$39,999</td> <td>20 <input type="checkbox"/> \$150,000 to \$174,999</td> </tr> <tr> <td>8 <input type="checkbox"/> \$40,000 to \$44,999</td> <td>21 <input type="checkbox"/> \$175,000 to \$199,999</td> </tr> <tr> <td>9 <input type="checkbox"/> \$45,000 to \$49,999</td> <td>22 <input type="checkbox"/> \$200,000 to \$249,999</td> </tr> <tr> <td>10 <input type="checkbox"/> \$50,000 to \$54,999</td> <td>23 <input type="checkbox"/> \$250,000 to \$299,999</td> </tr> <tr> <td>11 <input type="checkbox"/> \$55,000 to \$59,999</td> <td>24 <input type="checkbox"/> \$300,000 to \$399,999</td> </tr> <tr> <td>12 <input type="checkbox"/> \$60,000 to \$64,999</td> <td>25 <input type="checkbox"/> \$400,000 to \$499,999</td> </tr> <tr> <td>13 <input type="checkbox"/> \$65,000 to \$69,999</td> <td>26 <input type="checkbox"/> \$500,000 or more</td> </tr> </table>		1 <input type="checkbox"/> Less than \$10,000	14 <input type="checkbox"/> \$70,000 to \$74,999	2 <input type="checkbox"/> \$10,000 to \$14,999	15 <input type="checkbox"/> \$75,000 to \$79,999	3 <input type="checkbox"/> \$15,000 to \$19,999	16 <input type="checkbox"/> \$80,000 to \$89,999	4 <input type="checkbox"/> \$20,000 to \$24,999	17 <input type="checkbox"/> \$90,000 to \$99,999	5 <input type="checkbox"/> \$25,000 to \$29,999	18 <input type="checkbox"/> \$100,000 to \$124,999	6 <input type="checkbox"/> \$30,000 to \$34,999	19 <input type="checkbox"/> \$125,000 to \$149,999	7 <input type="checkbox"/> \$35,000 to \$39,999	20 <input type="checkbox"/> \$150,000 to \$174,999	8 <input type="checkbox"/> \$40,000 to \$44,999	21 <input type="checkbox"/> \$175,000 to \$199,999	9 <input type="checkbox"/> \$45,000 to \$49,999	22 <input type="checkbox"/> \$200,000 to \$249,999	10 <input type="checkbox"/> \$50,000 to \$54,999	23 <input type="checkbox"/> \$250,000 to \$299,999	11 <input type="checkbox"/> \$55,000 to \$59,999	24 <input type="checkbox"/> \$300,000 to \$399,999	12 <input type="checkbox"/> \$60,000 to \$64,999	25 <input type="checkbox"/> \$400,000 to \$499,999	13 <input type="checkbox"/> \$65,000 to \$69,999	26 <input type="checkbox"/> \$500,000 or more										
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<p>H3. How many rooms do you have in this (house/apartment)? Count living rooms, dining rooms, kitchens, and bedrooms, but do NOT count bathrooms, balconies, foyers, or halls.</p> <table border="0"> <tr> <td>1 <input type="checkbox"/> 1 room</td> <td>6 <input type="checkbox"/> 6 rooms</td> </tr> <tr> <td>2 <input type="checkbox"/> 2 rooms</td> <td>7 <input type="checkbox"/> 7 rooms</td> </tr> <tr> <td>3 <input type="checkbox"/> 3 rooms</td> <td>8 <input type="checkbox"/> 8 rooms</td> </tr> <tr> <td>4 <input type="checkbox"/> 4 rooms</td> <td>9 <input type="checkbox"/> 9 or more rooms</td> </tr> <tr> <td>5 <input type="checkbox"/> 5 rooms</td> <td></td> </tr> </table>		1 <input type="checkbox"/> 1 room	6 <input type="checkbox"/> 6 rooms	2 <input type="checkbox"/> 2 rooms	7 <input type="checkbox"/> 7 rooms	3 <input type="checkbox"/> 3 rooms	8 <input type="checkbox"/> 8 rooms	4 <input type="checkbox"/> 4 rooms	9 <input type="checkbox"/> 9 or more rooms	5 <input type="checkbox"/> 5 rooms		<p>Ask only if RENT IS PAID for this house or apartment —</p> <p>H9. What is the monthly rent?</p> <p>If rent is NOT PAID BY THE MONTH, see your job instructions on how to figure a monthly rent.</p> <table border="0"> <tr> <td>1 <input type="checkbox"/> Less than \$60</td> <td>14 <input type="checkbox"/> \$350 to \$374</td> </tr> <tr> <td>2 <input type="checkbox"/> \$60 to \$79</td> <td>15 <input type="checkbox"/> \$375 to \$399</td> </tr> <tr> <td>3 <input type="checkbox"/> \$80 to \$99</td> <td>16 <input type="checkbox"/> \$400 to \$424</td> </tr> <tr> <td>4 <input type="checkbox"/> \$100 to \$124</td> <td>17 <input type="checkbox"/> \$425 to \$449</td> </tr> <tr> <td>5 <input type="checkbox"/> \$125 to \$149</td> <td>18 <input type="checkbox"/> \$450 to \$474</td> </tr> <tr> <td>6 <input type="checkbox"/> \$150 to \$174</td> <td>19 <input type="checkbox"/> \$475 to \$499</td> </tr> <tr> <td>7 <input type="checkbox"/> \$175 to \$199</td> <td>20 <input type="checkbox"/> \$500 to \$549</td> </tr> <tr> <td>8 <input type="checkbox"/> \$200 to \$224</td> <td>21 <input type="checkbox"/> \$550 to \$599</td> </tr> <tr> <td>9 <input type="checkbox"/> \$225 to \$249</td> <td>22 <input type="checkbox"/> \$600 to \$649</td> </tr> <tr> <td>10 <input type="checkbox"/> \$250 to \$274</td> <td>23 <input type="checkbox"/> \$650 to \$699</td> </tr> <tr> <td>11 <input type="checkbox"/> \$275 to \$299</td> <td>24 <input type="checkbox"/> \$700 to \$749</td> </tr> <tr> <td>12 <input type="checkbox"/> \$300 to \$324</td> <td>25 <input type="checkbox"/> \$750 to \$999</td> </tr> <tr> <td>13 <input type="checkbox"/> \$325 to \$349</td> <td>26 <input type="checkbox"/> \$1,000 or more</td> </tr> </table>		1 <input type="checkbox"/> Less than \$60	14 <input type="checkbox"/> \$350 to \$374	2 <input type="checkbox"/> \$60 to \$79	15 <input type="checkbox"/> \$375 to \$399	3 <input type="checkbox"/> \$80 to \$99	16 <input type="checkbox"/> \$400 to \$424	4 <input type="checkbox"/> \$100 to \$124	17 <input type="checkbox"/> \$425 to \$449	5 <input type="checkbox"/> \$125 to \$149	18 <input type="checkbox"/> \$450 to \$474	6 <input type="checkbox"/> \$150 to \$174	19 <input type="checkbox"/> \$475 to \$499	7 <input type="checkbox"/> \$175 to \$199	20 <input type="checkbox"/> \$500 to \$549	8 <input type="checkbox"/> \$200 to \$224	21 <input type="checkbox"/> \$550 to \$599	9 <input type="checkbox"/> \$225 to \$249	22 <input type="checkbox"/> \$600 to \$649	10 <input type="checkbox"/> \$250 to \$274	23 <input type="checkbox"/> \$650 to \$699	11 <input type="checkbox"/> \$275 to \$299	24 <input type="checkbox"/> \$700 to \$749	12 <input type="checkbox"/> \$300 to \$324	25 <input type="checkbox"/> \$750 to \$999	13 <input type="checkbox"/> \$325 to \$349	26 <input type="checkbox"/> \$1,000 or more
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<p>H4a. Is there hot and cold piped water in this (house/apartment)?</p> <p>1 <input type="checkbox"/> Yes, hot and cold piped water</p> <p>2 <input type="checkbox"/> No, only cold piped water</p> <p>3 <input type="checkbox"/> No piped water — Skip to H4d</p>		<p>H5. Is this (house/apartment) part of a condominium? A CONDOMINIUM is a building or development with individually owned apartments or houses, having commonly owned areas and grounds.</p> <p>1 <input type="checkbox"/> Yes</p> <p>2 <input type="checkbox"/> No</p>																																					
<p>b. Is there a bathtub or shower in this (house/apartment)?</p> <p>1 <input type="checkbox"/> Yes</p> <p>2 <input type="checkbox"/> No bathtub or shower</p>		<p>c. Is there a flush toilet in this (house/apartment)?</p> <p>1 <input type="checkbox"/> Yes — Skip to H5</p> <p>2 <input type="checkbox"/> No — Go to H4d</p>																																					
<p>d. What type of toilet facilities do you have?</p> <p>1 <input type="checkbox"/> Privy</p> <p>2 <input type="checkbox"/> Other or none</p>		<p>Please continue onto the next page.</p>																																					
FOR ENUMERATOR USE																																							
<p>C1. Vacancy status</p> <p>1 <input type="checkbox"/> For rent</p> <p>2 <input type="checkbox"/> For sale only</p> <p>3 <input type="checkbox"/> Rented or sold, not occupied</p> <p>4 <input type="checkbox"/> For seas/rec/occ</p> <p>5 <input type="checkbox"/> For migrant workers</p> <p>6 <input type="checkbox"/> Other vacant</p>		<p>C2. Is this unit boarded up?</p> <p>1 <input type="checkbox"/> Yes</p> <p>2 <input type="checkbox"/> No</p>																																					
		<p>D. Months vacant</p> <p>1 <input type="checkbox"/> Less than 1</p> <p>2 <input type="checkbox"/> 1 up to 2</p> <p>3 <input type="checkbox"/> 2 up to 6</p> <p>4 <input type="checkbox"/> 6 up to 12</p> <p>5 <input type="checkbox"/> 12 up to 24</p> <p>6 <input type="checkbox"/> 24 or more</p>																																					

CHECKLIST AFTER THE INTERVIEW

DID YOU —

- 1.** ☐ Complete all appropriate items on the front cover?
- 2.** ☐ Complete as many of the census questions as possible, including the last resort questions?
- 3.** ☐ Complete the FOR ENUMERATOR USE section on page 3?
- 4.** ☐ Sign (certify) the questionnaire on the front cover?
- 5.** ☐ Make the necessary entries on the address listing page and map(s)?

CENSUS '90



APPENDIX F.

Data Products and User Assistance

CONTENTS

Data Products	F-1
Geographic Products	F-2
Other Census Bureau Resources	F-5
Reference Materials	F-3
Sources of Assistance	F-4

The 1990 census data products for Puerto Rico, 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 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 expanded services and sources of assistance available to data users. For example, the data center program has over 1,400 organizations (including 25 in Puerto Rico) to provide data and services to the public.

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

DATA PRODUCTS

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

The data products present statistics about the subjects covered in the 1990 census questionnaires for Puerto Rico. These subjects are listed in figure 1, page F-6. As the figure shows, there are 100-percent subjects (those covered in questions asked of everyone or about every housing unit) and sample subjects (those covered in questions asked at about one out of every six housing units). Generally, a data product presents either 100-percent data prepared by tabulating the responses to the 100-percent questions from all questionnaires, or sample data prepared by tabulating only the responses to the 100-percent and sample questions from the "long-form" questionnaires. One report, 1990 CPH-3, (see figure 2, page F-7), presents 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). In addition, there are reports, not reflected in figure 2, for the United States, the Virgin Islands of the United States, and the Pacific territories under U.S. jurisdiction. 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.)

The content and geographic coverage of the Puerto Rico reports are listed in figure 2. Report series that present data for small areas, such as census tracts, contain limited subject-matter detail (for example, counts of people by age ranges—under 5 years, 5 to 9 years, etc.—rather than by single years). Report series that include greater amounts of subject-matter detail include less geographic detail.

Computer Tape Files

The Census Bureau provides more data on tape and other machine-readable products than in printed reports. These products are sold by the Census Bureau's Customer Services. There are several general types of data files released on computer tape (available on both reels and cartridges). They are introduced below, and more information is presented in figures 3 and 4, pages F-9 and F-10.

Redistricting Data—This data file presents the counts designed and formatted for use in legislative redistricting. These counts also are available on CD-ROM and paper listings. Excerpts are available on CENDATA™. The counts, for areas as small as blocks, census tracts, and voting districts, include totals for population, population 18 years old and over, and housing units. (See figure 4.)

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

Here are some important features of STF's:

- Each STF presents a particular set of data tables for specific types of geographic areas.
- Most STF's have two 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 contain 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.

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 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 single municipio, a group of municipios, or a place, the household is located. Each area identified must have a population of at least 100,000.
- A file presenting a 1-percent sample of housing units. Its household records include codes associating them with metropolitan areas (MA's). (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.)

Microfiche

Block statistics are available on microfiche, as they were for the 1980 census. The microfiche present, in table format, a subset of the tabulations for census blocks found in STF 1B (see figure 3). In the 1990 census, for the first time, the entire land area of Puerto Rico was block-numbered. This increased the number of blocks for which the Census Bureau provides data in Puerto Rico from 15,609 in 1980 to 50,261 in 1990.

STF's 1A and 3A are available on microfiche as well. As noted in figure 3, they provide data for a variety of geographic areas. Also, all printed reports are offered on microfiche from Customer Services soon after they are published.

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

For the 1990 census, the Puerto Rico Redistricting file, an extract of STF 1B that presents selected statistics for blocks, and STF's 1A and 3A also are available on CD-ROM. (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 municipio, MA, and place data from the Redistricting Data tape file and STF's 1 and 3.

Custom Data Products

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

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

User-Defined Areas Program (UDAP) Tabulations

UDAP can provide a set of predefined data tables for locally defined areas that do not correspond to standard 1990 census geographic areas. Users identify the geographic areas of interest to them by delineating boundaries around groupings of census blocks on 1990 census 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, CD-ROM, 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 maps are prepared on electrostatic plotters by municipio (Puerto Rico's equivalent of a county for reporting statistics) with one or more map sheets each, depending on the size and shape of the area and the density of the block pattern. The maps may be purchased from Customer Services.

County Subdivision Outline Map—This map of Puerto Rico presents the names and boundaries of the municipios, municipio subdivisions (barrios-pueblos, barrios, and subbarrios), and places. Electrostatic-plotter copies are available for purchase from Customer Services. Also, the map is printed on multiple page-size sheets in the following Puerto Rico reports: 1990 CPH-1-53, 1990 CPH-2-53, 1990 CPH-5-53, 1990 CP-1-53, 1990 CP-2-53, 1990 CH-1-53, and 1990 CH-2-53.

Census Tract/Block Numbering Area (BNA) Outline Maps—Maps in this municipio-based series depict census tract or BNA boundaries and numbers, and the features underlying the boundaries. They also show the names and boundaries of the municipio subdivisions and places. Customer Services sells electrostatic-plotter copies, and the Superintendent of Documents sells printed copies.

Voting District Outline Maps—Maps in this municipio-based series depict voting district boundaries and the features underlying the boundaries. They also show the boundaries and names of municipio subdivisions and places. 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 Puerto Rico and its metropolitan areas, urbanized areas, municipios, municipio subdivisions, and places, as well as for States 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 total 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 Puerto Rico, the entire United States, the Virgin Islands, and the Pacific territories under U.S. 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 Redistricting Data 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 included in TIGER. For example, a map for a particular municipio could show the distribution of the voting age population by block.

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

TIGER/Line™ files and other TIGER System extracts, such as TIGER/Boundary™ and TIGER/DataBase™, 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 Tabulation and Publication Program for Puerto Rico*. A free report describing 1990 census products for Puerto Rico, comparing 1990 products with those of the 1980 census, and more. Request from Customer Services.
- *1990 Census of Population and Housing Tabulation and Publication Program*. A free report describing 1990 census products for the States, comparing 1990 products with those of the 1980 census, and more. 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 redistricting counts. It does not deal directly with Puerto Rico geography and census products, but it should still be of help in redistricting. Request from Customer Services.
- **TIGER: The Coast-to-Coast Digital Map Data Base.** A free booklet describing the structure and uses of the Census Bureau's TIGER System. Request from Customer Services.
- **Census and You.** The Census Bureau's monthly newsletter for data users. It reports on the latest 1990 census developments, selected new publications and computer tape files, other censuses and surveys, developments in services to users, and upcoming conferences and training courses. Subscriptions are sold by the Superintendent of Documents, U.S. Government Printing Office.
- **Monthly Product Announcement.** A free monthly listing of all new Census Bureau publications; microfiche; maps; data files on tape, diskettes, or CD-ROM; and technical documentation. To subscribe, contact Customer Services.
- **Census Catalog and Guide.** A comprehensive annual description of data products, statistical programs, and services of the Census Bureau. It provides abstracts of the publications, data files, microfiche, maps, and items online. In addition, the Catalog/Guide offers such features as information about censuses and surveys and telephone contact lists of data specialists at the Census Bureau, the State Data Centers, and other data processing service centers. It is sold by the Superintendent of Documents, U.S. Government Printing Office.

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

SOURCES OF ASSISTANCE

U.S. Bureau of the Census

The Census Bureau's Customer Services sells most of the machine-readable data products, microfiche, and maps described earlier. (The 1990 census printed reports

are sold by the Superintendent of Documents.) Also, users may consult with specialists at the Census Bureau's Washington headquarters and the New York regional office, which serves Puerto Rico. 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.

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 Division, U.S. Bureau of the Census, Washington, DC 20233, telephone 301-763-8553.

Regional Office Contact—

New York, NY

212-264-4730

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 Puerto Rico, all States, the District of Columbia, Guam, and the Virgin Islands. Data centers, in turn, offer publications for reference, printouts from computer tape, specially prepared reports, maps, and other products and assistance to data users. The lead agency of the Puerto Rico data center program is the Junta de Planificación, Centro Gubernamental Minillas, P.O. Box 41119, San Juan, PR 00940-9985, telephone 809-728-4430. For a list of all State Data Centers, see the *Census Catalog and Guide* or contact Customer Services.

National Services Program—The National Services Program (NSP) 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 a pilot project, the National Services Information Center (NSIC) Initiative, three of these nonprofit groups now offer their clientele reports, computer tape printouts, and other information from the Census Bureau. To learn more about the NSP and the NSIC, write to the National Services Program, 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 in the United States, Puerto Rico, and other areas 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 for Puerto Rico, the United States, the Virgin Islands, and the Pacific territories under U.S. jurisdiction. Through other censuses, surveys, and estimates programs, it compiles and issues (in reports, computer tape, and other media) data for the United States and sometimes Puerto Rico, the Virgin Islands, and the Pacific territories on subjects as diverse as appliance sales, neighborhood conditions, and exports to other countries. Here are examples of the information published about—

- **People:** Age, race, sex, income, poverty, child care, child support, fertility, noncash benefits, education, commuting habits, pension coverage, unemployment, ancestry.
- **Business and industry:** Number of employees, total payroll, sales and receipts, products manufactured or sold.
- **Housing and construction:** Value of new construction, numbers of owners and renters, property value or rent paid, housing starts, fuels used, mortgage costs.

- **Farms:** Number, acreage, livestock, crop sales.
- **Governments:** Revenues and expenditures, taxes, employment, pension funds.
- **Foreign trade:** Exports and imports, origin and destination, units shipped.
- **Other nations:** Population, birth rates, death rates, literacy, fertility.

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

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

Statistical activities of the Census Bureau relevant to Puerto Rico 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.

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.

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 County Business Patterns program offers annual statistics on payroll and number of establishments by employment-size class for municipios.

Agriculture Census

The agriculture census is conducted concurrently with the economic censuses. It is the only source of uniform agriculture data at the municipio 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.

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 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 Virgin Islands, and other U.S. territories.

Other Statistical Activities

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

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

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

Figure 1. **Content of the 1990 Census of Puerto Rico**

100-PERCENT COMPONENT

Population

Household relationship
Sex
Age
Marital status

Housing

Number of units in structure
Number of rooms in unit
Plumbing facilities
Condominium status
Tenure—owned or rented
Value of owned unit or rent paid
Vacancy characteristics

SAMPLE COMPONENT

Population

Social characteristics:

Place of birth, citizenship, and year of entry
Education—enrollment and attainment
Birthplace of parents
Migration (residence in 1985)
U.S. residency and activity during last 10 years
Ability to read and write
Ability to speak Spanish and English
Veteran status
Disability
Fertility
Vocational training

Economic characteristics:

Employment and unemployment
Place of work and commuting to work
Occupation, industry, and class of worker
Work experience and income in 1989

Housing

Farm residence
Year householder moved into residence
Year structure built
Type of construction
Source of water and method of sewage disposal
Number of bedrooms and number of bathrooms
Type of water heater
Cooking fuel
Complete kitchen facilities
Air conditioning
Telephone in unit
Vehicles available
Shelter costs, including utilities
Condition of housing unit

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 for Puerto Rico

Series	Title	Report(s) issued for	Description	Geographic areas
1990 CENSUS OF POPULATION AND HOUSING (1990 CPH)				
100-Percent Data				
1990 CPH-1-53	Summary Population and Housing Characteristics	Puerto Rico	Population and housing unit counts, and summary statistics on age, sex, household relationship, units in structure, number of rooms, plumbing facilities, tenure, value of home or monthly rent, and vacancy characteristics	Puerto Rico, its municipios, barrios-pueblos and barrios, subbarrios, and places
1990 CPH-2-53	Population and Housing Unit Counts	Puerto Rico	Total population and housing unit counts for 1990 and previous censuses	Puerto Rico, its municipios, barrios-pueblos and barrios, subbarrios, places, metropolitan areas (MSA's/ PMSA's and CMSA), urbanized areas (UA's), and summary geographic areas (for example, urban and rural, and metropolitan and nonmetropolitan residence)
100-Percent and Sample Data				
1990 CPH-3	Population and Housing Characteristics for Census Tracts and Block Numbering Areas	For Puerto Rico, one report will be published for each MSA/ PMSA, and one for the non-metropolitan balance	Statistics on 100-percent and sample population and housing subjects	Statistics presented in a geographic hierarchy of MSA/ PMSA-municipio-place of 10,000 or more inhabitants-census tract/ block numbering area (BNA)
Sample Data				
1990 CPH-5-53	Summary Social, Economic, and Housing Characteristics	Puerto Rico	Statistics generally on sample population and housing subjects	Puerto Rico, its municipios, barrios-pueblos and barrios, subbarrios, and places
1990 CENSUS OF POPULATION (1990 CP)				
100-Percent Data				
1990 CP-1-53	General Population Characteristics	Puerto Rico	Detailed statistics on age, sex, marital status, and household relationship characteristics	Puerto Rico; its municipios; metropolitan areas (MSA's/ PMSA's and CMSA); UA's; barrios-pueblos and barrios, subbarrios, and places of 1,000 or more inhabitants; and summary geographic areas
Sample Data				
1990 CP-2-53	Social and Economic Characteristics	Puerto Rico	Statistics generally on sample population subjects	Puerto Rico (including summaries such as urban and rural); municipios; metropolitan areas (MSA's/ PMSA's and CMSA); UA's; and barrios-pueblos and barrios, subbarrios, and places of 2,500 or more inhabitants

Figure 2. 1990 Census Printed Reports for Puerto Rico—Con.

Series	Title	Report(s) issued for	Description	Geographic areas
1990 CENSUS OF HOUSING (1990 CH)				
100-Percent Data				
1990 CH-1-53	General Housing Characteristics	Puerto Rico	Detailed statistics on units in structure, plumbing facilities, value and rent, number of rooms, tenure, and vacancy characteristics	Puerto Rico, its municipios; metropolitan areas (MSA's/ PMSA's and CMSA); UA's; barrios-pueblos and barrios, subbarrios, and places of 1,000 or more inhabitants; and summary geographic areas
Sample Data				
1990 CH-2-53	Detailed Housing Characteristics	Puerto Rico	Statistics generally on sample housing subjects	Puerto Rico; municipios; metropolitan areas (MSA's/ PMSA's and CMSA); UA's; barrios-pueblos and barrios, subbarrios, and places of 2,500 or more inhabitants; and summary geographic areas

Figure 3. 1990 Census Summary Tape Files for Puerto Rico

**Summary Tape File
(STF 1A, 1B)
and data type
(100 percent or
sample)¹**

	Geographic areas	Description
STF 1 (100 percent)	A ^{2 3} Puerto Rico and its component areas in hierarchical sequence down to the block group level. Summaries also tabulated for whole barrios-pueblos and barrios, whole subbarrios, whole places, whole census tracts/ block numbering areas (BNA's), and whole block groups	Over 500 cells/items of 100-percent population and housing counts and characteristics for each geographic area
	B ^{2 3} Puerto Rico and its component areas in hierarchical sequence down to the block level. Data also provided for metropolitan areas (MSA's/PMSA's and CMSA), UA's, and summary geographic areas (for example, urban and rural)	
STF 2 (100 percent)	A Data for census tracts/ BNA's in metropolitan areas and in the remainder of Puerto Rico in a geographic hierarchy of municipios—places of 10,000 or more inhabitants—census tract/ BNA. It also presents census tract/ BNA summaries for split tracts/ BNA's	Over 2,700 cells/items of 100-percent population and housing counts and characteristics for each geographic area
	B Puerto Rico; municipios; metropolitan areas (MSA's/ PMSA's and CMSA); UA's; barrios-pueblos and barrios, subbarrios, and places of 1,000 or more inhabitants; and summary geographic areas (for example, urban and rural)	
STF 3 (Sample)	A ^{2 3} Puerto Rico and its subareas in hierarchical sequence down to the block group level. Separate summaries provided for metropolitan areas (MSA's/PMSA's and a CMSA), UA's, whole barrios-pueblos and barrios, whole subbarrios, whole places, whole census tracts/ BNA's, and whole block groups	Over 1,800 cells/items of sample population and housing characteristics for each geographic area
STF 4 (Sample)	A Data for census tracts/ BNA's in metropolitan areas and in the remainder of Puerto Rico in a geographic hierarchy of municipios—places of 10,000 or more inhabitants—census tract/ BNA. It also presents census tract/ BNA summaries for split tracts/ BNA's	Over 3,600 cells/items of sample population and housing characteristics for each geographic area
	B Puerto Rico; municipios; metropolitan areas (MSA's/ PMSA's and CMSA); UA's; barrios-pueblos and barrios, subbarrios, and places of 2,500 or more inhabitants; and summary geographic areas	

¹Similar STF's will be prepared for States, the District of Columbia, and the U.S. Virgin Islands.

²Also available on microfiche. STF 1B microfiche provides only part of the data for blocks and other areas in the tape file.

³Also available on laser disc (CD-ROM). STF 1B CD-ROM presents the same file extract as STF 1B microfiche.

Figure 4. Other 1990 Census Data Products for Puerto Rico

Title	Description	Geographic areas
Special Supplementary Report—Detailed Population and Housing Characteristics	A series of cross-tabulations of detailed population and housing data	Puerto Rico
Puerto Rico Redistricting Data Project	Counts for the total population and population 18 years old and over, and counts of housing units (total, occupied, and vacant). Available on tape, CD-ROM, and paper listings	Puerto Rico, municipios, barrios-pueblos and barrios, subbarrios, places, census tracts/ block numbering areas, block groups, blocks, and voting districts
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—PUMS Municipio Groups		Municipio groups or smaller areas with 100,000 or more inhabitants
1 Percent—Metropolitan Areas (1990)		MA's that will be used in the 1990 census
User-Defined Areas Tabulations	A set of standard tabulations provided on printouts, tapes, or other products with maps and narrative (if requested)	User-defined areas created by aggregating census blocks
Special Tabulations	User-defined tabulations for specified geographic areas provided on printouts, tapes, or other products	User-defined areas or standard areas

APPENDIX G. Maps

CONTENTS

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INTRODUCTION

There are four map series that relate to the geographic entities for which the Census Bureau provides statistics in the Puerto Rico Redistricting Data CD-ROM. Copies of these 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).

MAP DESCRIPTIONS

County Block Maps—These maps depict each municipio on one or more map sheets at various scales, depending on the municipio's areal size and the density of the block pattern. (Most municipios 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 municipio, including voting districts. Each municipio includes an index map sheet that shows the locations of the map sheets comprising the municipio set.

Census Tract/Block Numbering Area Outline Maps—These municipio-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

municipios, municipio subdivisions, and places. Map scales vary to minimize the number of sheets. The maps may include one or more insets for densely settled areas. (The Census Bureau also intends to produce printed versions of these maps, for sale by the Government Printing Office (GPO), starting in 1992.)

Voting District Outline Maps—These maps are prepared for each municipio based on boundaries provided by Puerto Rico officials during Phase 2 of the 1990 Census Redistricting Data Program. They depict voting district boundaries and codes, the features and feature names underlying the boundaries, and the boundaries and names of municipios, municipio subdivisions, and places. (See pages 2-3 and A-5 for further information about voting districts in the 1990 census.) Map scales vary to minimize the number of sheets. The maps may include one or more insets for densely settled areas.

County Subdivision Outline Map—This map of Puerto Rico depicts the boundaries and names of all municipios and statistically equivalent areas, municipio subdivisions, and places. (The Census Bureau also will publish sectionalized versions of this map 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 that 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.

Legend

LEGEND

SYMBOL DESCRIPTION	SYMBOL	NAME STYLE	FIPS CODE	CENSUS CODE
International	*****	CANADA		
American Indian Reservation	XXXXXXXX	CAMPO RSVN	10522	(0450)
Trust Land	XXXXXXXX		10522	(0450T)
Alaska Native Regional Corporation	*****	ALEUT ANRC		(14)
Alaska Native Village Statistical Area, Tribal Jurisdiction Statistical Area, or Tribal Designated Statistical Area	*****	KAW TJSA	39870	(5340)
State ¹	//////	NEW YORK	(36)	
County ¹	=====	ERIE COUNTY	(029)	
Minor Civil Division ²	*****	YORK TWP	83908	(070)
Census County Division	*****	KULA DIV	91890	(030)
Incorporated Place	*****	Rome City	63418	(3120)
Census Designated Place	*****	Zena	84187	(4100)
Voting District ³	▲▲▲▲▲▲▲▲	C004		
Corporate Corridor	OOOOOOOO	1680		
Census Tract or Block Numbering Area	3702.01			

Block Number (With Asterisk)⁴

Fishhook⁵

Cross-of-Vessel

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. The voting district symbol alternates with all other coincident boundaries as shown in the example:
e.g.: ▼▲▲▲▲▲▲▲

FEATURE	SYMBOL	NAME STYLE
Interstate Highway and Limited Access Road ⁶	=====	Interstate 620
Other Highway ⁶	=====	Rte 101
City Street, Other Connecting Road, or Dirt Road ⁶	=====	Harsh Ln
Jeep Trail, Walkway, or Stairway	-----	Lebbie Walk
Railroad	-----	
Ferry Crossing	-----	
Pipeline or Power Transmission Line	-----	
Ridge, Fence, Canyon, or Other Physical Feature	-----	RIDGE
Nonvisible Boundary or Other Feature Not Elsewhere Classified	-----	PROPERTY LINE
Perennial Stream, or Shoreline of Perennial Water Body	~~~~~	Turbine Creek
Intermittent Stream, or Shoreline of Intermittent Water Body	~~~~~	Piney Creek
Large River, Lake, or Other Water Body	~~~~~	Pleasant Lake
Military Installation	N/A	Fort Belvoir
Park (National, State, or Local)	~~~~~	Yosemite
Mountain Peak	▲	Pikes Peak
Inset Area	A	

¹ State or County; or their equivalent area for statistical purposes.

² A five-spoked asterisk following a minor civil division indicates that the minor civil division is coextensive with an incorporated place and has the same name.

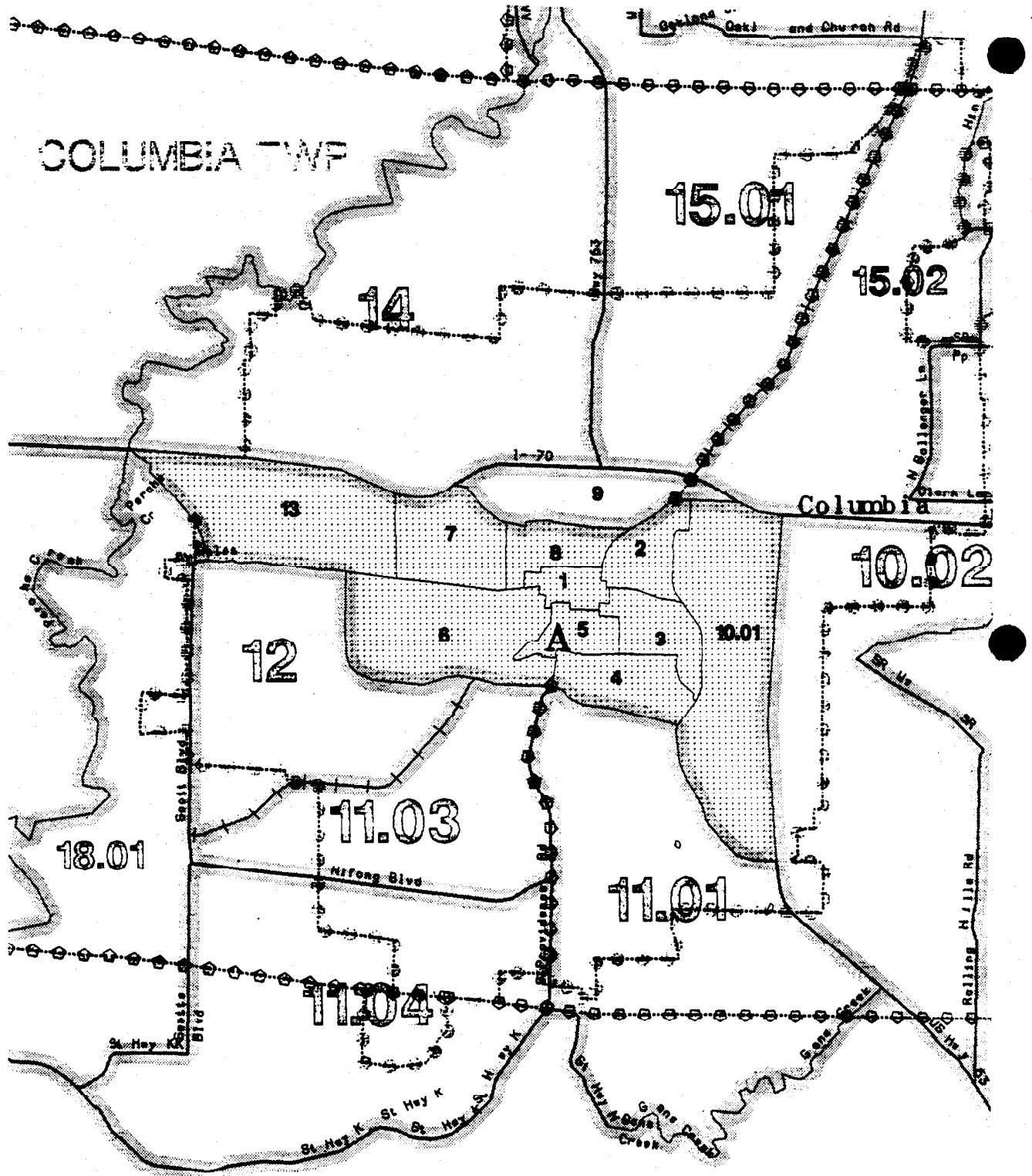
³ If an asterisk follows a voting district code, then the state participant identified this as a true voting district, and the boundary shown on the map represents the actual boundary of the voting district. If an asterisk does not follow the voting district code, then the state participant moves the voting district boundary to coincide with a nearby census block boundary (a 1990 census program requirement for tabulation purposes only). If there are no asterisks shown within an entire county, the state participant chose not to distinguish between the two types of voting districts for that county.

⁴ An asterisk following a block number indicates that the block number is repeated elsewhere in the block or is shown partially on an adjacent map sheet.

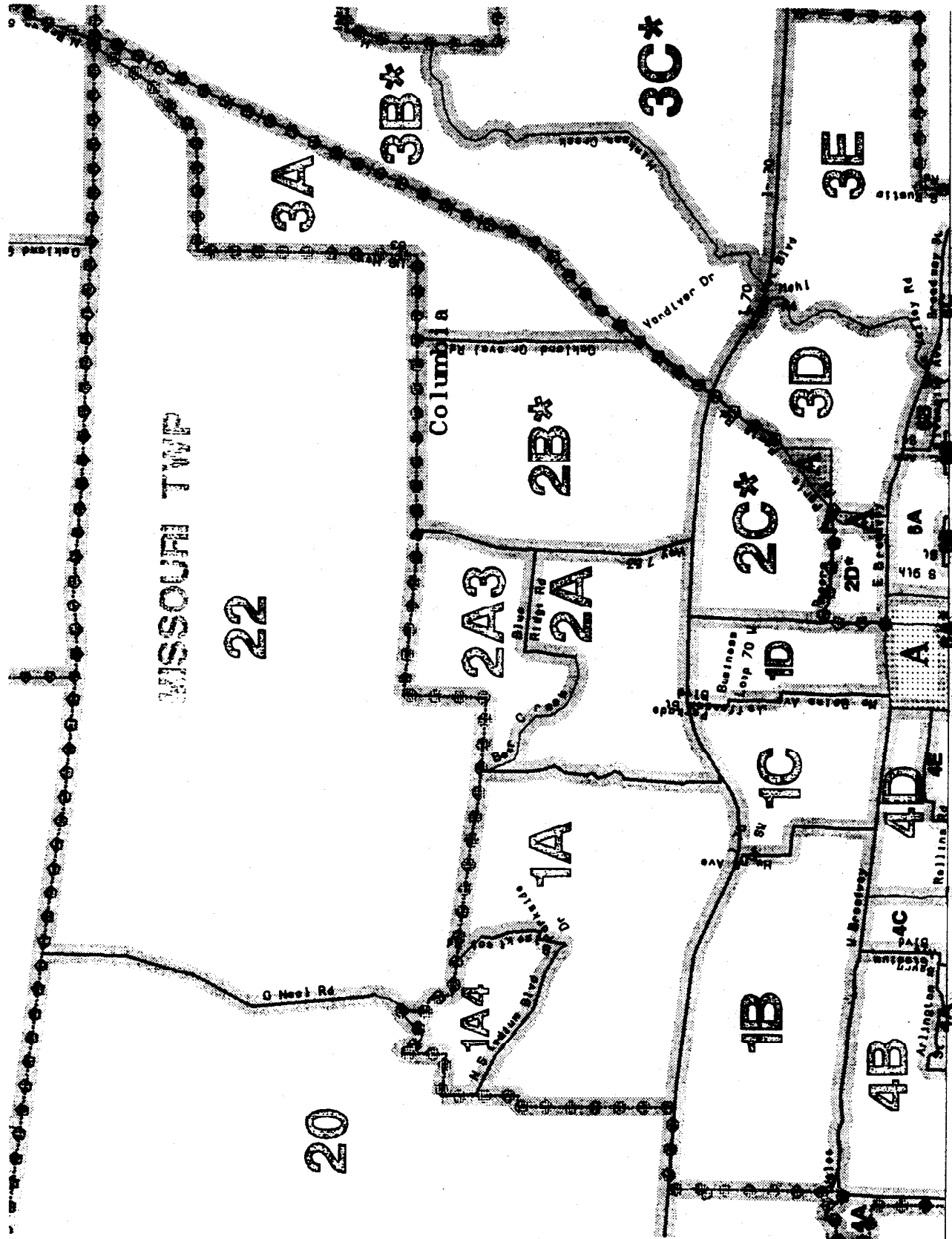
⁵ A fishhook across a map feature or boundary indicates that the areas on both sides of the feature or boundary belong to the same census block.

⁶ A X 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.

Census Tract/Block Numbering Area Outline Map Sample



Voting District Outline Map Sample



The map displays Boone County, Missouri, and its surrounding neighbors. To the north are Saline and Audrain counties; to the east are Liberty, Jackson, and Callaway counties; to the south are Cole, Clark, and Osage counties; and to the west are Howard, Moniteau, and Boone counties. Within Boone County, numerous towns and cities are marked, including Harrisonburg, Hallsville, Rockville, Columbia, and Booneville. The map also shows major roads and geographical features like the Missouri River and various creeks.

APPENDIX H

CD-ROM Technical Information¹

CONTENTS

Equipment	H-1
Software	H-1
Converting to ASCII Files	H-2
Reference and Index Files	H-2
Technical Documentation	H-2

EQUIPMENT

The two basic pieces of equipment needed to use CD-ROM's are a microcomputer and a CD-ROM drive. A printer is very useful but not essential. Your microcomputer should be equipped with at least 640K random access memory (RAM). While a hard disk is not required on your microcomputer, it is very useful.

SOFTWARE

Software is needed for accessing the CD-ROM as well as for accessing the data.

MS-DOS 3.1 or higher is needed as your operating system if you have a CD-ROM reader. You will also need DOS file manager software such as Microsoft's CD-ROM Extensions. CD-ROM extensions is a collection of programs that enables the microcomputer to communicate with the attached CD-ROM drives. You must have version 2.0 or higher of the Microsoft Extensions.

If you already have a CD-ROM drive, you may not know whether it is equipped with file manager software like the CD-ROM extensions. To find out, try signing on to your CD-ROM drive just as though it is a magnetic disk drive, and perform simple file management tasks, like listing the directory. (For example, from the DOS prompt, type the command DIR and the letter used to designate the CD-ROM drive followed by a colon [e.g., C>DIR L:] and press enter.) If you get an error message, it may mean that you need to obtain and install CD-ROM extensions.

CD-ROM Extensions

Although all versions of CD-ROM extensions work basically the same way, installation procedures may

vary slightly from one supplier to another. Many versions contain a program that will automatically install the software for you, after you have answered a few questions about the type of equipment that you plan to use. *Be sure to follow the instructions for installing CD-ROM Extensions that are provided with the software.*

The first step, if you are installing extensions without the aid of an automatic set-up program, is usually installing the device driver program and MSCDEX.EXE on your bootable disk. For computers containing a hard drive, this usually means drive C. The name of the device driver program varies from one version of extensions to another; one common practice of software developers is to name it after the brand of CD-ROM drive that it supports, e.g., HITACHI.SYS. The device driver program and MSCDEX are frequently set up in separate subdirectories; however, this practice is not universal.

The next step is to add a line to the CONFIG.SYS file to identify the device driver program. This line typically looks something like this:

```
DEVICE = \path\driver name/D:\driver alias/N:#  
For example: device = \dev\HITACHI.SYS/D:MSCD001/n:1
```

The driver name (e.g., HITACHI.SYS) and the driver alias should be provided by the set-up program or in the instructions that accompany the floppy disk containing the extensions software. The symbol # at the end of the line should be replaced with the number of CD-ROM drives (up to 4) that will be hooked up to the microcomputer.

The third step is to add a line to the AUTOEXEC.BAT file for running MSCDEX.EXE and assigning a letter to your CD-ROM drive. Depending on your system configuration you may opt to set up one or more batch files to accomplish the same purpose. If you add a line to the AUTOEXEC.BAT file, it will probably look something like this:

```
\path\MSCDEX.EXE/D:driver alias/M:8/L:L  
For example: \BIN\MSCDEX.EXE/D:MSCD001/m:12/L:L
```

The driver alias, which is really the name that your system will use to identify the device driver, should be the same one that is named in your CONFIG.SYS file.

¹Portions of this appendix are adapted from *Administrative Notes*, the Newsletter of the Federal Depository Library Program (May 22, 1989).

The number following M: is the number of memory buffers allocated (usually 8, but sometimes more). The last letter, following the L; designates the letter assigned to the CD-ROM drive.

Though the final step is simple, it's also easy to overlook. You must reboot the system in order to activate the changes that you've made to your CONFIG.SYS and AUTOEXEC.BAT.

Once properly installed, the device behaves much like a read-only floppy diskette drive, and simple MS-DOS commands such as DIR are possible. If the computer reports that the CD-ROM is "not High Sierra," you must first upgrade your Microsoft CD-ROM Extensions software to version 2.0 or later.

Data Retrieval Software

This CD-ROM contains data retrieval software. This software was developed and tested on a COMPAQ Deskpro 286 with 640K RAM operating under MS-DOS 3.31. The software was compiled with Clipper (Summer '87). There are no special display requirements. Please note that the retrieval software will only run on IBM-compatibles operating under MS-DOS.

To execute, type GO at the DOS prompt and ENTER.

Example: L:\>go

The data on the CD-ROM are in dBase III+™ format. Data in dBase III+ format are recognized by many software packages including dBase IV™, Foxbase™, Clipper™, Supercalc V™, Quattro Pro™, and VP-Planner™.

Users of other types of systems, such as the Apple Macintosh, have access to the files through support for ISO 9660 CD-ROMs.

CONVERTING TO ASCII FILES

Users without database management software who wish to convert the files to ASCII can follow the code found in the README file on the CD-ROM.

TECHNICAL DOCUMENTATION

The DOCUMENT directory on the CD-ROM contains sections of the Puerto Rico Redistricting File technical documentation in a series of ASCII text files. Appendices A through F are not available on this CD-ROM. They are included in the printed technical documentation only. The ASCII files are as follows:

ROSTER_P.ASC	Roster Page
CONTENTS.ASC	Contents
ABST_PR.ASC	Abstract
HOWTOUSE.ASC	How to Use the File
SUB_LOC.ASC	Subject Locator
LIST_TBL.ASC	List of Tables
TBL_OUT.ASC	Table Outlines
SUM_LEV.ASC	Summary Level Sequence Chart
USERNOTE.ASC	User Notes Explanation and Notes
IDEN_FTN.ASC	Identification Section of the Data Dictionary
TBL_MTX.ASC	Table (Matrix) Section of the Data Dictionary
APPEND_G.ASC	Appendix G—Maps (Text only)
APPEND_H.ASC	Appendix H—CD-ROM Technical Information

REFERENCE AND INDEX FILES

See figures 5 and 6 for a description of the database files.

Figure 5. Reference Files

PL94STRU.DBF This file describes the structure of the 74 fields of the PL9471PR.DBF. This is in the format of a dBASE III *extended structure* which has been expanded to include brief field descriptions.

Structure for database: PL9471PR.DBF
Number of data records: 74

Field	Field Name	Type	Width	Dec
1	FIELD_NAME	Character	10	
2	FIELD_TYPE	Character	1	
3	FIELD_LEN	Numeric	3	
4	FIELD_DEC	Numeric	3	
5	FIELD_TEXT	Character	60	
** Total **			78	

Figure 5. Reference Files—Con.

PL94DD.DBF This file describes the numeric data tables.

Structure for database

Number of data records: 15

Field	Field Name	Type	Width	Dec
1	TABLE	Character	6	
2	FIELD	Character	10	
3	TEXT	Character	68	
4	SEGMENT	Character	6	
** Total **			91	

VNAMESPR.DBF

Structure for database

Field	Field Name	Type	Width	Dec
1	CNTY	Character	3	
2	SAC3	Character	4	
3	ANPSADPI	Character	66	
** Total **			74	

CNAMESPR.DBF This file contains a list of county names and FIPS county codes for Puerto Rico.

Structure for database

Field	Field Name	Type	Width	Dec
1	SUMLEV	Character	3	
2	CNTY	Character	3	
3	ANPSADPI	Character	66	
** Total **			73	

\DOCUMENT\RFPRDOC Directory of technical documentation files in ASCII text format.

Figure 6. Index Files

PL9417PR.NDX This is a dBASE III index file for PL9417PR.DBF. The key fields are SUMLEV + CNTY + SAC3 + COUSUBCE + PLACECE + TRACTBNA + BLOCKGR.

VNAMESPR.NDX This is a dBASE III index file for VNAMESPR.DBF. The key field is CNTY.



UNITED STATES DEPARTMENT OF COMMERCE
Bureau of the Census
Washington, D.C. 20233

**CENSUS OF POPULATION AND HOUSING, 1990:
PUERTO RICO REDISTRICTING DATA ON CD-ROM**

TECHNICAL NOTE 1

The FIPS 55 place code and class code for the subbarrios in Puerto Rico are not shown in the identification section of the Data Dictionary, and accordingly do not appear in the 1990 census data files. The FIPS 55 codes (which will be used in future censuses) are as follows:

<u>Municipio</u>	<u>Municipio Subdivision</u>	<u>Sub- barrio</u>	<u>Subbarrio Name</u>	<u>FIPS 55 Codes</u>	
				<u>Place</u>	<u>Class</u>
003	010	25	California	10962	Z6
003	010	50	Rosario	72320	Z6
005	025	20	Higüey	34633	Z6
005	025	30	Iglesia	35751	Z6
005	025	50	Nuevo	56736	Z6
005	025	70	Santa Bárbara	77633	Z6
005	025	80	Tamarindo	81675	Z6
009	010	25	Pueblo Norte	64768	Z6
009	010	50	Pueblo Sur	65025	Z6
011	010	10	Cuartel Cuarto	21880	Z6
011	010	20	Cuartel Primero	21884	Z6
011	010	30	Cuartel Segundo	21888	Z6
011	010	40	Cuartel Tercero	21892	Z6
013	010	10	Buenos Aires	09512	Z6
013	010	20	Jareales	38145	Z6
013	010	30	La Cruz	40248	Z6
013	010	40	Miramar	53575	Z6
013	010	50	Monserate	53940	Z6
013	010	60	Rosario	72325	Z6
013	010	70	San Felipe	75888	Z6
013	010	80	San Luis	77117	Z6
013	010	90	Vigía	86070	Z6
015	023	10	Cuatro Calles	21950	Z6
015	023	40	Pueblo Este	64745	Z6
015	023	50	Pueblo Oeste	64955	Z6
023	033	20	Pueblo Norte	64776	Z6
023	033	30	Pueblo Nuevo	64819	Z6
023	033	50	Pueblo Sud	65005	Z6
035	025	25	Pueblo Norte	64782	Z6
035	025	50	Pueblo Sur	65040	Z6
053	035	20	Pueblo Este	64752	Z6
053	035	30	Pueblo Norte	64788	Z6
053	035	40	Pueblo Oeste	64960	Z6
053	035	50	Pueblo Sur	65048	Z6

<u>Municipio</u>	<u>Municipio Subdivision</u>	<u>Sub- barrio</u>	<u>Subbarrio Name</u>	<u>FIPS 55 Codes</u>	
				<u>Place</u>	<u>Class</u>
059	055	25	Poblado Sitios	63658	Z6
059	055	50	Pueblo	64575	Z6
069	075	30	San Francisco	76005	Z6
069	075	40	San Juan	76740	Z6
069	075	50	Santiago	79355	Z6
069	075	60	Santo Domingo	79548	Z6
075	095	20	Pueblo Este	64758	Z6
075	095	30	Pueblo Norte	64794	Z6
075	095	40	Pueblo Oeste	64965	Z6
075	095	50	Pueblo Sur	65056	Z6
077	065	25	Pueblo Norte	64800	Z6
077	065	50	Pueblo Sur	65062	Z6
091	055	25	Pueblo Poniente	64979	Z6
091	055	50	Pueblo Saliente	64983	Z6
095	063	25	Pueblo Este	64763	Z6
095	063	50	Pueblo Oeste	64970	Z6
097	065	10	Candelaria	12405	Z6
097	065	20	Cárcel	14018	Z6
097	065	40	Marina Meridional	51465	Z6
097	065	50	Marina Septentrional	51470	Z6
097	065	70	Río	69781	Z6
097	065	80	Salud	75200	Z6
113	080	10	Baldorioty de Castro	05055	Z6
113	080	20	Clausells	18594	Z6
113	080	50	Reparada	69142	Z6
121	045	25	Pueblo Norte	64805	Z6
121	045	50	Pueblo Sud	65010	Z6
123	020	10	Aguirre (Rural)	01185	Z6
123	020	20	Central Aguirre	16532	Z6
123	020	30	Coquí	20316	Z6
123	020	60	San Felipe	75913	Z6
125	183	20	Pueblo Central	64735	Z6
125	183	30	Pueblo Occidental	64950	Z6
125	183	40	Pueblo Oriental	64975	Z6
127	050	19	Ciudad Nueva	18580	Z6
127	050	27	Floral Park	28656	Z6
127	050	41	Las Monjas	43950	Z6
127	050	73	Quintana	68265	Z6
127	060	23	Eleanor Roosevelt	25173	Z6
127	060	24	El Vedado	26350	Z6
127	060	52	Martín Peña	51618	Z6
127	060	71	Puerto Nuevo	65464	Z6
127	070	07	Bella Vista	07398	Z6
127	070	33	Hyde Park	35708	Z6
127	070	37	La 37	39714	Z6
127	070	83	Santa Rita	78880	Z6
127	100	09	Borinquen	08445	Z6
127	100	46	López Sicardó	46815	Z6
127	100	79	San José	76644	Z6
127	110	11	Buen Consejo	09480	Z6
127	110	16	Capetillo	13825	Z6
127	110	62	Monte Rey	54610	Z6

<u>Municipio</u>	<u>Municipio Subdivision</u>	<u>Sub- barrio</u>	<u>Subbarrio Name</u>	<u>FIPS 55 Codes</u>	
				<u>Place</u>	<u>Class</u>
127	110	74	Río Piedras Antiguo	71576	Z6
127	110	88	Ubarri	83972	Z6
127	110	91	Venezuela	85737	Z6
127	140	06	Batajía	05180	Z6
127	140	17	Catedral	15355	Z6
127	140	49	Marina	51455	Z6
127	140	56	Mercado	53025	Z6
127	140	68	Puerta de Tierra	65249	Z6
127	140	77	San Cristóbal	75849	Z6
127	140	78	San Francisco	76042	Z6
127	200	01	Alto del Cabro	02350	Z6
127	200	04	Bayola	07090	Z6
127	200	08	Bolívar	07945	Z6
127	200	12	Buenos Aires	09565	Z6
127	200	13	Campo Alegre	11675	Z6
127	200	18	Chícharo	17590	Z6
127	200	21	Condadito	19900	Z6
127	200	22	Condado	19927	Z6
127	200	26	Figueroa	28373	Z6
127	200	28	Gandul	30080	Z6
127	200	29	Herrera	34520	Z6
127	200	31	Hipódromo	34770	Z6
127	200	32	Hoare	34790	Z6
127	200	36	Isla Grande	36680	Z6
127	200	38	Las Casas	42932	Z6
127	200	39	Las Marías	43880	Z6
127	200	42	Las Palmas	44265	Z6
127	200	43	La Zona	45180	Z6
127	200	44	Loíza	46458	Z6
127	200	47	Machuchal	48355	Z6
127	200	48	María Moczó	50815	Z6
127	200	51	Marruecos	51532	Z6
127	200	53	Martín Peña	51625	Z6
127	200	54	Melilla	52900	Z6
127	200	57	Merhoff	53090	Z6
127	200	58	Minillas	53265	Z6
127	200	59	Miramar	53638	Z6
127	200	61	Monteflores	54327	Z6
127	200	63	Obrero	56907	Z6
127	200	64	Ocean Park	56950	Z6
127	200	66	Parque	59788	Z6
127	200	67	Pozo del Hato	64240	Z6
127	200	72	Pulguero	66030	Z6
127	200	76	Sagrado Corazón	74580	Z6
127	200	81	San Juan Moderno	76840	Z6
127	200	82	San Mateo	77204	Z6
127	200	84	Seboruco	79830	Z6
127	200	86	Shanghai	80140	Z6
127	200	87	Tras Talleres	83438	Z6
127	200	92	Villa Palmeras	87136	Z6
127	320	02	Amparo	02495	Z6
127	320	03	Auxilio Mutuo	04475	Z6
127	320	34	Institución	36350	Z6
127	320	89	Valencia	84771	Z6
131	335	25	Norzagaray	56650	Z6
131	335	50	Urréjola	84470	Z6
153	321	25	Pueblo Norte	64810	Z6
153	321	50	Pueblo Sud	65015	Z6