

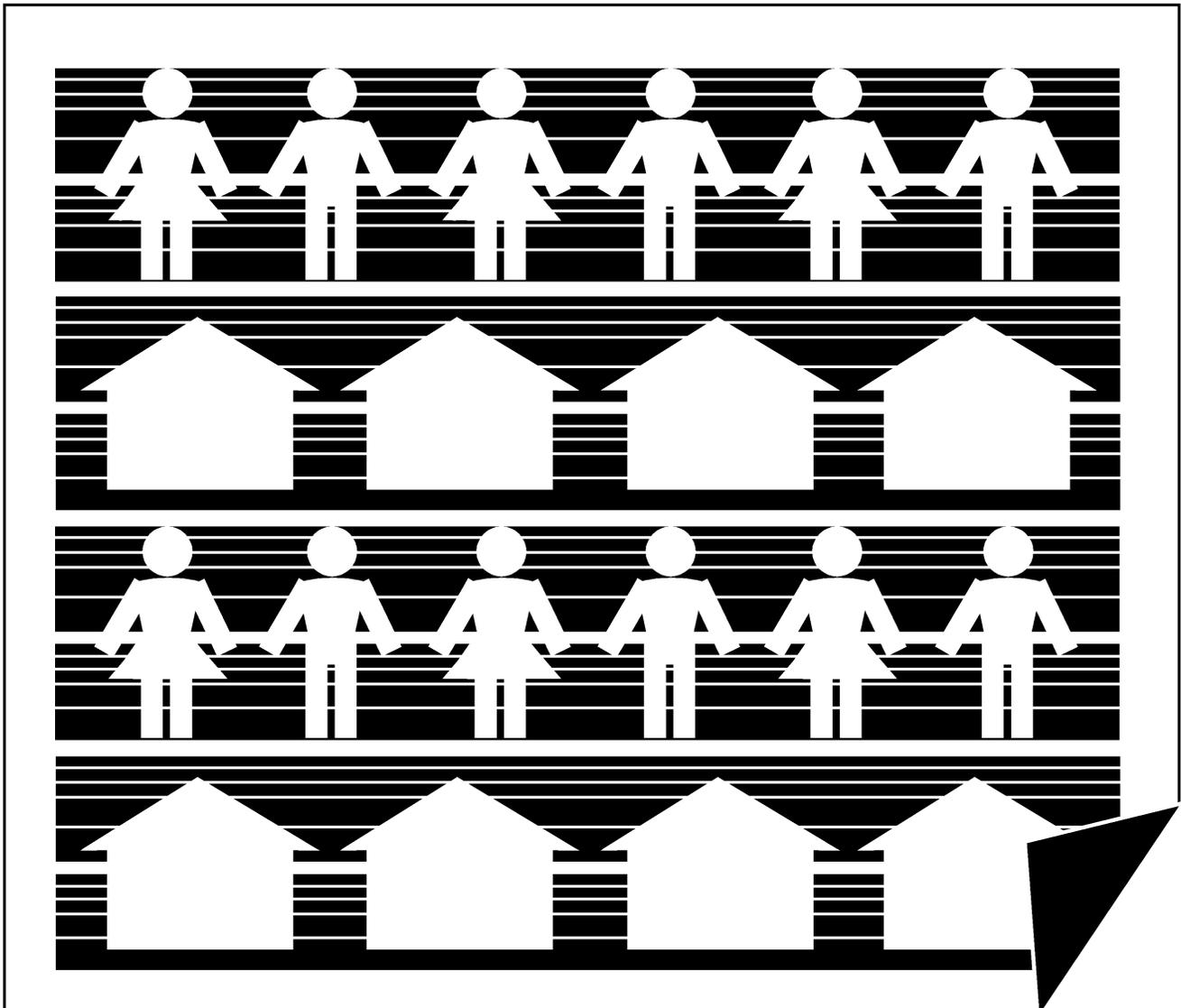
U.S. Department of Commerce
Economics and Statistics Administration
BUREAU OF THE CENSUS

1990 CPH-2-53

CENSUS '90



1990 Census of
Population and Housing
Population and Housing
Unit Counts
Puerto Rico



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1990 CPH-2-53

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Puerto Rico



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HOW TO USE THIS CENSUS REPORT

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INTRODUCTION

Data from the 1990 census are presented in several different report series. These series are published under the following three subject titles:

1. 1990 Census of Population (1990 CP)
2. 1990 Census of Housing (1990 CH)
3. 1990 Census of Population and Housing (1990 CPH)

The types of data and the geographic areas shown in reports differ from one series to another. In most series, there is one report for each State, the District of Columbia, Puerto Rico, and the Virgin Islands of the United States (Virgin Islands), plus a United States summary report. Some series include reports for American Indian and Alaska Native areas, metropolitan areas, and urbanized areas. See appendix F for detailed information about the various report series; additional 1990 census data products such as computer tapes, microfiche, and laser disks; other related materials; and sources of assistance.

The data from the 1990 Census of Puerto Rico were derived from a limited number of basic questions asked of the entire population and about every housing unit (referred to as the 100-percent questions), and from additional questions asked of a sample of the population and housing units (referred to as the sample questions). Two primary versions of questionnaires were used: a short form containing only the 100-percent questions and a long form containing both the 100-percent questions and the additional sample questions. Appendix E presents facsimiles of the questionnaire pages and the respondent instructions used to collect the data included in this report. Appendix F lists the subjects that are covered by the 100-percent and sample components of the 1990 census.

Legal provision for this census, which was conducted as of April 1, 1990, was made in the Act of Congress of August 31, 1954 (amended August 1957, December 1975, and October 1976), which is codified in Title 13, United States Code.

HOW TO FIND GEOGRAPHIC AREAS AND SUBJECT-MATTER DATA

This report includes a table finding guide to assist the user in locating those statistical tables that contain the data that are needed. The table finding guide lists the geographic areas and the subjects shown in this report. To determine which tables in this report show data for a particular topic, find the subject in the column headings at the top of the table finding guide and then look down the left-hand column for the desired type of geographic area. Below is an example of a table finding guide.

TABLE FINDING GUIDE

Subjects by Type of Geographic Area and Table Number

(Subjects covered in this report are shown at the top, and types of geographic areas are shown on the left side. For a description of area classifications, see appendix A. For definitions and explanations of subject characteristics, see appendix B.)

Area	Population counts			Housing unit counts			Density			Number of places
	1990 census	Previous censuses	Change from previous censuses	1990 census	Previous censuses	Change from previous censuses	Land area	Population	Housing unit	
PUERTO RICO										
Total	1,3,4,5,8,11,13,17,22	1,3,8,11	1,4	2,3,4,6,8,11,14,18,22	2,3,8	2,4	4,7,8,11,15,16,19,20,22	4,8	4,8	11,13,14,15,16,17,18,19,20
Urban and rural	1,5,11,12,13,22	1,11,12	1,5	2,6,11,14,22	2	2,6	7,11,15,16,22	...	...	1,11,12,13,14,15,16
Urban and rural by size of place ...	5,11,12,13,22	11,12	...	6,11,14,22	...	...	7,11,15,16,22	...	...	11,12,13,14,15,16
Inside and outside metropolitan area by urban and rural and size of place	13,22	...	...	14,22	...	...	15,16,22	...	...	13,14,15,16
Inside and outside metropolitan area by size of place	13,17,22	...	...	14,18,22	...	...	15,16,19,20,22	...	...	13,14,15,16,17,18,19,20
Inside and outside urbanized area by size of place	24	...	...	24	...	...	24	...	...	...
MUNICIPIO										
Total	3,4,8	3,8	4	3,4,8	3,8	4	4,7,8	4,8	4,8	...
Urban and rural	5	...	5	6	...	6	7	...	...	...
Urban and rural by size of place ...	5	...	...	6	...	...	7	...	...	...
PLACE										
By municipio and municipio subdivision	8	8	...	8	8	...	8	8	8	...
Alphabetically for Puerto Rico	9	9	...	9	9	...	9	9	9	...
By 1990 population rank	10	10	...	10	10	...	...	...	...	...
MUNICIPIO SUBDIVISION										
By municipio	8	8	...	8	8	...	8	8	8	...
Alphabetically for Puerto Rico	9	9	...	9	9	...	9	9	9	...
SUBBARRIO										
By municipio	9	9	...	9	9	...	9	9	9	...
METROPOLITAN AREA										
Total and geographic components ..	21	21	...	21	21	...	21	21	21	...
By urban and rural and population size class of metropolitan area	22	...	...	22	...	...	22	...	...	...
URBANIZED AREA										
Total and geographic components ..	23	...	...	23	...	...	23	23	23	...
By size of place and population size class of urbanized area	24	...	...	24	...	...	24	...	...	...

... Not applicable.

HOW TO USE THE STATISTICAL TABLES

Parts of a Statistical Table

The census data included in printed reports are arranged in tables. Each table includes four major parts: (1) heading, (2) boxhead, (3) stub, and (4) data field. A typical census report table is illustrated on the next page.

PARTS OF A STATISTICAL TABLE

The diagram shows a statistical table with the following labeled parts:

- Table number and title:** Table 67. Labor Force Characteristics: 1990
- Headnote:** (text in brackets below the title)
- Column head:** Labels for columns such as 'Total', 'Male', 'Female', 'White', 'Black', 'Hispanic or Latino', 'Asian or Pacific Islander', 'Hispanic or Latino', 'Asian or Pacific Islander', 'Hispanic or Latino', 'Asian or Pacific Islander'.
- Heading:** The title and headnote area.
- Stubhead:** Labels for rows such as 'Total', 'Male', 'Female', 'White', 'Black', 'Hispanic or Latino', 'Asian or Pacific Islander'.
- Stub:** The main body of the table containing data.
- Sidehead:** Labels for rows such as 'Total', 'Male', 'Female', 'White', 'Black', 'Hispanic or Latino', 'Asian or Pacific Islander'.
- Boxhead:** The area containing column headers.
- Data field:** The area containing the numerical data.

At the bottom of the table, it is identified as '28 ALASKA' and 'SOCIAL AND ECONOMIC CHARACTERISTICS'.

indicates the relationship of one data line to another. Indented data lines represent subcategories that in most instances, sum to a total. Occasionally in tables, it is desirable to show one or more single-line subcategories that do not sum to the total. The unit of measure, such as dollars, is shown when it is not clear from the general wording of the data line.

The *data field* is that part of the table that contains the data. It extends from the bottom of the boxhead to the bottom of the table and from the right of the stub to the right-hand edge of the page.

Both geographic and subject-matter terms appear in tables. It is important to read the definitions of the terms used in the tables because census terms often are defined in special ways that reflect the manner in which the questions were asked and the data were tabulated. Definitions of geographic terms are provided in appendix A. Subject-matter terms are defined in appendix B.

Symbols and Geographic Abbreviations

The following symbols are used in the tables and explanations of subjects covered in this report:

- A dash “-” represents zero or a figure or percent that rounds to less than 0.1.
- Three dots “...” mean not applicable.
- (NA) means not available.
- The prefix “r” indicates that the count has been revised since publication of 1980 reports or that the area was erroneously omitted or not shown in the correct geographic relationship in the 1980 census reports. This symbol appears only in the 1990 CPH-2, *Population and Housing Unit Counts* reports.
- A dagger “†” next to the name of a geographic area indicates that there has been a geographic change(s) (for example, an annexation or detachment, a new incorporation, or a name change) since the information published for the 1980 census for that area. This symbol appears only in the 1990 CPH-2, *Population and Housing Unit Counts* reports. The geographic change information for the entities in Puerto Rico is shown in the “User Notes” section of the 1990 CPH-2, *Population and Housing Unit Counts* report. The information for all States and Puerto Rico appears in the “User Notes” section of the technical documentation for Summary Tape Files 1 and 3.
- A plus sign “+ ” or a minus sign “-” following a figure denotes that the median falls in the initial or terminal category of an open-ended distribution. (For more information on medians, see the discussion under “Derived Measures” in appendix B.)
- A minus sign “-” preceding a figure denotes decrease.

The *heading* consists of the table number, title, and headnote. The table number indicates the position of the table within the report, while the title is a brief statement indicating the classification, nature, and time reference of the data presented in the table. The headnote is enclosed in brackets and is located under the title. It contains statements that qualify, explain, or provide information pertaining to the entire table.

The *boxhead* is under the heading. This portion of the table, which contains the individual column heads or captions, describes the data in each vertical column. In the boxhead of many tables, a spanner appears across and above two or more column heads or across two or more lower spanners. The purpose of a spanner is to classify or qualify items below it or separate the table into identifiable blocks in terms of major aspects of the data.

The *stub* is located at the left edge of the table. It includes a listing of line or row captions or descriptions. At the top of the stub is the stubhead. The stubhead is considered to be an extension of the table title and usually shows generic geographic area designations and restrictions.

In the stub, several features are used to help the user better understand the contents of the table. Usually, a block of data lines is preceded by a sidehead. The sidehead, similar to a spanner, describes and classifies the stub entries following it. The use of indentation in a stub

The following geographic abbreviations are used in the tables and explanations of subjects covered in this report:

- A “(pt.)” next to the name of a geographic area in a hierarchical presentation indicates that the geographic entity is only partially located in the superior geographic entity. For example, a “(pt.)” next to a place name in a county subdivision-place hierarchy indicates that the place is located in more than one municipio subdivision. (Places also may be “split” by municipio, metropolitan area, or voting district.) Other geographic entities also can be “split” by a higher-level entity. The exception is a tabulation block, which is unique within all geographic entities in census products.
- BG is block group.
- BNA is block numbering area.
- CDP is census designated place.
- CMSA is consolidated metropolitan statistical area.
- MA is metropolitan area.
- MSA is metropolitan statistical area.
- PMSA is primary metropolitan statistical area.
- VTD is voting district.

Census tables often include derived measures such as medians, means, percents, and ratios. More detailed information about derived measures is provided in appendix B.

GRAPHICS

Charts, statistical maps, and other graphic summaries are included in some 1990 census reports. If graphics are shown in a report, they are presented immediately after the “User Notes” section.

USER NOTES

User notes include corrections, errata, and related explanatory information. This section appears directly before the statistical tables in census reports unless graphics are shown. It presents information about unique characteristics of the report and changes or corrections made too late to be reflected in the text or tables themselves.

CONTENTS OF THE APPENDIXES

Appendix A—Provides definitions of the types of geographic areas and related information used in census reports.

Appendix B—Contains definitions for the subject-matter items used in census reports, including explanations of derived measures, limitations of the data, and comparability with previous censuses. The subjects are listed alphabetically. In reports that contain both population and housing characteristics, the population characteristics are described first, followed by the explanations of the housing subjects.

Appendix C—Provides information on confidentiality of the data, allocations and substitutions, and sources of errors in the data.

Appendix D—Explains the residence rules used in counting the population and housing units, presents a brief overview of data collection operations, and describes processing procedures used to convert data from unedited questionnaires to final 1990 publications and tapes. This appendix also clarifies the procedures used to collect data for persons abroad at the time of the census, where persons on military bases or away at school were counted, and how data were collected for persons in institutions.

Appendix E—Presents a facsimile of the 1990 census questionnaire pages. Census questionnaires were available in Spanish and in English. Respondent instructions explaining how to complete the short-form questionnaire were available in Spanish only; no respondent instructions were provided for the long-form questionnaires.

Appendix F—Summarizes the 1990 census data products program by describing the information available in printed reports and in other sources, such as microfiche or computer tape; and provides information on where to obtain assistance.

Appendix G—Contains maps depicting the geographic areas shown in this report.

TABLE FINDING GUIDE

Subjects by Type of Geographic Area and Table Number

[Subjects covered in this report are shown at the top, and types of geographic areas are shown on the left side. For a description of area classifications, see appendix A. For definitions and explanations of subject characteristics, see appendix B]

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	1990 census	Previous censuses	Change from previous censuses	1990 census	Previous censuses	Change from previous censuses		Popu-lation	Housing unit	
PUERTO RICO										
Total	1,3,4,5,8, 11,13,17, 22	1,3,8,11	1,4	2,3,4,6,8, 11,14,18, 22	2,3,8	2,4	4,7,8,11, 15,16,19, 20,22	4,8	4,8	11,13,14, 15,16,17, 18,19,20
Urban and rural	1,5,11,12, 13,22	1,11,12	1,5	2,6,11, 14,22	2	2,6	7,11,15, 16,22	...	...	1,11,12,13, 14,15,16
Urban and rural by size of place ...	5,11,12, 13,22	11,12	...	6,11,14, 22	...	...	7,11,15, 16,22	...	...	11,12,13, 14,15,16
Inside and outside metropolitan area by urban and rural and size of place	13,22	...	...	14,22	...	...	15,16,22	...	...	13,14,15, 16
Inside and outside metropolitan area by size of place	13,17,22	...	...	14,18,22	...	...	15,16,19, 20,22	...	...	13,14,15, 16,17,18, 19,20
Inside and outside urbanized area by size of place	24	...	...	24	...	...	24	...	...	...
MUNICIPIO										
Total	3,4,8	3,8	4	3,4,8	3,8	4	4,7,8	4,8	4,8	...
Urban and rural	5	...	5	6	...	6	7	...	...	...
Urban and rural by size of place ...	5	...	...	6	...	...	7	...	...	...
PLACE										
By municipio and municipio subdivision	8	8	...	8	8	...	8	8	8	...
Alphabetically for Puerto Rico	9	9	...	9	9	...	9	9	9	...
By 1990 population rank	10	10	...	10	10
MUNICIPIO SUBDIVISION										
By municipio	8	8	...	8	8	...	8	8	8	...
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SUBBARRIO	9	9	...	9	9	...	9	9	9	...
METROPOLITAN AREA										
Total and geographic components .	21	21	...	21	21	...	21	21	21	...
By urban and rural and population size class of metropolitan area	22	...	...	22	...	...	22	...	...	...
URBANIZED AREA										
Total and geographic components .	23	...	...	23	...	...	23	23	23	...
By size of place and population size class of urbanized area	24	...	...	24	...	...	24	...	...	...

... Not applicable.

USER NOTES

Additional information concerning this 1990 census product may be available at a later date. If you wish to receive these *User Notes*, contact:

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Questions concerning the content of this report may be directed to:

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ADDITIONAL DEFINITIONS AND EXPLANATIONS OF DATA

GENERAL

User Note 1

The user should note that there are limitations to many of these data. Please refer to the text provided with this report for further explanations on the limitations of the data.

GEOGRAPHIC NAMES AND PRESENTATION

User Note 1

The latitude and longitude values shown by tick marks in the margins of the Municipio Subdivision Outline Maps in appendix G are approximate. They are shown only for general reference. They are displayed accurately on the Area and Municipio Outline Maps.

User Note 2

Aguirre (Rural) subbarrio, Salinas Municipio, is shown as Aguirre (rural) subbarrio.

Alto del Cabro subbarrio, San Juan Municipio, is shown as Alto Del Cabro subbarrio.

Baldorioty de Castro subbarrio, Ponce Municipio, is shown as Baldorioty De Castro subbarrio.

Fuig comunidad, Guánica Municipio, is shown as Fúig comunidad. Higüey subbarrio, Aguadilla Municipio, is shown as Higuey subbarrio.

Imbery comunidad, Barceloneta Municipio, is shown as Imbéry comunidad.

Indiera Fría barrio, Maricao Municipio, is shown as Indiera Fria barrio.

Luyando comunidad, Aguada Municipio, is shown as Luyándo comunidad.

Maizales barrio, Naguabo Municipio, is shown as Maízales barrio.

Pozo del Hato subbarrio, San Juan Municipio, is shown as Pozo Del Hato subbarrio.

Puerta de Tierra subbarrio, San Juan Municipio, is shown as Puerta De Tierra subbarrio.

San Cristóbal subbarrio, San Juan Municipio, is shown as San Cristobal subbarrio.

User Note 3

The following areas should have been assigned to selected subbarrios:

The unassigned portion of Aguadilla Municipio, Aguadilla barrio should be attributed to Higüey subbarrio.

The unassigned portion of Salinas Municipio, Aguirre barrio should be attributed to Coquí subbarrio.

The unassigned portion of San Juan Municipio, Santurce barrio should be attributed to Merhoff subbarrio.

GEOGRAPHIC CHANGE NOTES

The primary political divisions of Puerto Rico are municipios, which are similar to counties in the United States. Barrios-pueblos and barrios represent the minor civil divisions (MCD's); the barrios-pueblos replace the "pueblos" reported in previous decennial censuses. There are no

incorporated places in Puerto Rico; instead, the Census Bureau provides data for census designated places called zonas urbanas and comunidades (the latter were referred to as “aldeas” for the 1980 census). In agreement with the government of Puerto Rico, the Census Bureau no longer includes ciudades in its data tabulations. See appendix A for additional information.

Municipios and Municipio Subdivisions

Aguadilla Municipio—*Deleted entity*: Area reported as Corrales aldea in 1980 not shown separately as a comunidad in 1990.

Caguas Municipio—*Deleted entity*: Area reported as Villa Borinquen aldea in 1980 not shown separately as a comunidad in 1990.

Canóvanas Municipio—*Name change*: Santa Barbara comunidad previously shown as Santa Barbara aldea.

Corozal Municipio—*Name change*: Magueyes barrio previously shown as Magüeyes barrio.

Fajardo Municipio—*Deleted entity*: Area reported as Saldaña aldea in 1980 not shown separately as a comunidad in 1990.

Guayanilla Municipio—*Name change*: Macaná barrio previously shown as Macana barrio.

Isabela Municipio—*Name change*: Bajura barrio previously shown as Bajuras barrio.

Orocovis Municipio—*Deleted entity*: Area reported as Sana Muertos aldea in 1980 not shown separately as a comunidad in 1990.

Patillas Municipio—*Deleted entity*: Area reported as Recio aldea in 1980 not shown separately as a comunidad in 1990.

Ponce Municipio—*Name changes*: Canas barrio previously shown as Cañas barrio, Canas Urbano barrio previously shown as Cañas Urbano barrio, Marueño barrio previously shown as Marueno barrio and aldea.

Utado Municipio—*Name change*: Guaonico barrio previously shown as Guaónica barrio.

Yabucoa Municipio—*Deleted entity*: Area reported as Ingenio aldea in 1980 not shown separately as a comunidad in 1990.

Table 1. Population: Earliest Census to 1990

[For information concerning historical counts, see "User Notes." For definitions of terms and meanings of symbols, see text]

Puerto Rico Urban and Rural	Puerto Rico			Urban				Rural			Percent of total population	
	Total population	Change from preceding census		Number of places of 2,500 or more	Population	Change from preceding census		Population	Change from preceding census		Urban	Rural
		Population	Percent			Population	Percent		Population	Percent		
Current urban definition:												
1990 (Apr. 1)-----	3 522 037	325 517	10.2	105	2 508 346	373 981	17.5	1 013 691	-48 464	-4.6	71.2	28.8
1980 (Apr. 1)-----	3 196 520	484 487	17.9	98	2 134 365	558 874	35.5	1 062 155	-74 387	-6.5	66.8	33.2
1970 (Apr. 1)-----	2 712 033	362 489	15.4	84	1 575 491	536 190	51.6	1 136 542	-173 701	-13.3	58.1	41.9
1960 (Apr. 1)-----	2 349 544	138 841	6.3	55	1 039 301	...	...	1 310 243	...	...	44.2	55.8
Previous urban definition:												
1960 (Apr. 1)-----	2 349 544	138 841	6.3	55	950 585	55 772	6.2	1 398 959	83 069	6.3	40.5	59.5
1950 (Apr. 1)-----	2 210 703	341 448	18.3	54	894 813	328 456	58.0	1 315 890	12 992	1.0	40.5	59.5
1940 (Apr. 1)-----	1 869 255	325 342	21.1	45	566 357	139 136	32.6	1 302 898	186 206	16.7	30.3	69.7
1930 (Apr. 1)-----	1 543 913	244 104	18.8	40	427 221	143 287	50.5	1 116 692	100 817	9.9	27.7	72.3
1920 (Jan. 1)-----	1 299 809	181 797	16.3	32	283 934	59 314	26.4	1 015 875	122 483	13.7	21.8	78.2
1910 (Apr. 15)-----	1 118 012	164 769	17.3	30	224 620	85 917	61.9	893 392	78 852	9.7	20.1	79.9
1899 (Nov. 10)-----	953 243	154 678	19.4	17	138 703	...	...	814 540	...	...	14.6	85.4
1887-----	798 565	66 917	9.1	(NA)	(NA)	...	...	(NA)	...	...	...	...
1877-----	731 648	148 340	25.4	(NA)	(NA)	...	...	(NA)	...	...	...	...
1860-----	583 308	135 394	30.2	(NA)	(NA)	...	...	(NA)	...	...	...	...
1846-----	447 914	117 863	35.7	(NA)	(NA)	...	...	(NA)	...	...	...	...
1832-----	330 051	109 159	49.4	(NA)	(NA)	...	...	(NA)	...	...	...	...
1815-----	220 892	65 466	42.1	(NA)	(NA)	...	...	(NA)	...	...	...	...
1800-----	155 426	85 176	121.2	(NA)	(NA)	...	...	(NA)	...	...	...	...
1775-----	70 250	25 367	56.5	(NA)	(NA)	...	...	(NA)	...	...	...	...
1765-----	44 883	...	...	(NA)	(NA)	...	...	(NA)	...	...	...	...

Table 2. Housing Units: 1950 to 1990

[For information concerning historical counts, see "User Notes." For definitions of terms and meanings of symbols, see text]

Puerto Rico Urban and Rural	Puerto Rico			Urban			Rural			Percent of total housing units	
	Total housing units	Change from preceding census		Housing units	Change from preceding census		Housing units	Change from preceding census		Urban	Rural
		Housing units	Percent		Housing units	Percent		Housing units	Percent		
Current urban definition:											
1990 (Apr. 1) -----	1 188 985	195 307	19.7	851 037	175 066	25.9	337 948	20 241	6.4	71.6	28.4
1980 (Apr. 1) -----	993 678	279 965	39.2	675 971	246 371	57.3	317 707	33 594	11.8	68.0	32.0
1970 (Apr. 1) -----	713 713	191 754	36.7	429 600	180 773	72.7	284 113	10 981	4.0	60.2	39.8
1960 (Apr. 1) -----	521 959	68 387	15.1	248 827	49 910	25.1	273 132	18 477	7.3	47.7	52.3
1950 (Apr. 1) -----	453 572	...	...	198 917	...	...	254 655	...	...	43.9	56.1

Table 7. Land Area by Urban and Rural Residence: 1990—Con.

[For definitions of terms and meanings of symbols, see text]

Puerto Rico Municipio	Total land area	Urban					Rural					Percent of total land area					
		Total urban land area	Inside urbanized area	Outside urbanized area			Total rural land area	In place			Other rural	Urban		Rural			
				Total	Place of 10,000 or more	Place of 2,500 to 9,999		Total	Place of 1,000 to 2,499	Place of less than 1,000		Total	Inside urbanized area				
MUNICIPIO—Con.																	
Sabana Grande Municipio																	
Square kilometers.....	92.9	4.3	—	4.3	—	4.3	88.6	3.2	3.2	—	85.4	4.7	—	95.3			
Square miles	35.9	1.7	—	1.7	—	1.7	34.2	1.2	1.2	—	33.0	4.7	—	95.3			
Salinas Municipio																	
Square kilometers.....	179.2	5.4	—	5.4	—	5.4	173.8	6.0	6.0	—	167.8	3.0	—	97.0			
Square miles	69.2	2.1	—	2.1	—	2.1	67.1	2.3	2.3	—	64.8	3.0	—	97.0			
San Germán Municipio																	
Square kilometers.....	141.2	9.2	1.9	7.2	7.2	—	132.0	1.0	1.0	—	131.0	6.5	1.4	93.5			
Square miles	54.5	3.5	.7	2.8	2.8	—	51.0	.4	.4	—	50.6	6.5	1.4	93.5			
San Juan Municipio																	
Square kilometers.....	123.8	114.5	114.5	—	—	—	9.3	—	—	—	9.3	92.5	92.5	7.5			
Square miles	47.8	44.2	44.2	—	—	—	3.6	—	—	—	3.6	92.5	92.5	7.5			
San Lorenzo Municipio																	
Square kilometers.....	137.7	22.5	22.5	—	—	—	115.2	—	—	—	115.2	16.3	16.3	83.7			
Square miles	53.2	8.7	8.7	—	—	—	44.5	—	—	—	44.5	16.3	16.3	83.7			
San Sebastián Municipio																	
Square kilometers.....	182.6	5.6	—	5.6	5.6	—	177.0	.5	.5	—	176.4	3.1	—	96.9			
Square miles	70.5	2.2	—	2.2	2.2	—	68.3	.2	.2	—	68.1	3.1	—	96.9			
Santa Isabel Municipio																	
Square kilometers.....	88.4	2.6	—	2.6	—	2.6	85.8	5.3	5.3	—	80.5	3.0	—	97.0			
Square miles	34.1	1.0	—	1.0	—	1.0	33.1	2.0	2.0	—	31.1	3.0	—	97.0			
Toa Alta Municipio																	
Square kilometers.....	70.9	33.0	33.0	—	—	—	37.9	—	—	—	37.9	46.6	46.6	53.4			
Square miles	27.4	12.7	12.7	—	—	—	14.6	—	—	—	14.6	46.6	46.6	53.4			
Toa Baja Municipio																	
Square kilometers.....	60.0	36.0	36.0	—	—	—	24.0	1.5	1.5	—	22.5	60.0	60.0	40.0			
Square miles	23.2	13.9	13.9	—	—	—	9.3	.6	.6	—	8.7	60.0	60.0	40.0			
Trujillo Alto Municipio																	
Square kilometers.....	53.8	35.3	35.3	—	—	—	18.5	—	—	—	18.5	65.6	65.6	34.4			
Square miles	20.8	13.6	13.6	—	—	—	7.1	—	—	—	7.1	65.6	65.6	34.4			
Utuado Municipio																	
Square kilometers.....	293.8	4.2	—	4.2	—	4.2	289.6	1.1	1.1	—	288.6	1.4	—	98.6			
Square miles	113.5	1.6	—	1.6	—	1.6	111.8	.4	.4	—	111.4	1.4	—	98.6			
Vega Alta Municipio																	
Square kilometers.....	71.9	29.5	29.5	—	—	—	42.4	—	—	—	42.4	41.0	41.0	59.0			
Square miles	27.8	11.4	11.4	—	—	—	16.4	—	—	—	16.4	41.0	41.0	59.0			
Vega Baja Municipio																	
Square kilometers.....	118.8	37.1	37.1	—	—	—	81.8	—	—	—	81.8	31.2	31.2	68.8			
Square miles	45.9	14.3	14.3	—	—	—	31.6	—	—	—	31.6	31.2	31.2	68.8			
Vieques Municipio																	
Square kilometers.....	131.7	—	—	—	—	—	131.7	4.6	4.6	—	127.1	—	—	100.0			
Square miles	50.8	—	—	—	—	—	50.8	1.8	1.8	—	49.1	—	—	100.0			
Villalba Municipio																	
Square kilometers.....	91.8	2.6	—	2.6	—	2.6	89.2	—	—	—	89.2	2.8	—	97.2			
Square miles	35.4	1.0	—	1.0	—	1.0	34.4	—	—	—	34.4	2.8	—	97.2			
Yabucoa Municipio																	
Square kilometers.....	143.1	5.5	.2	5.4	—	5.4	137.6	6.1	6.1	—	131.5	3.9	.1	96.1			
Square miles	55.3	2.1	.1	2.1	—	2.1	53.1	2.4	2.4	—	50.8	3.9	.1	96.1			
Yauco Municipio																	
Square kilometers.....	176.5	7.1	—	7.1	7.1	—	169.4	1.3	1.3	—	168.1	4.0	—	96.0			
Square miles	68.2	2.8	—	2.8	2.8	—	65.4	.5	.5	—	64.9	4.0	—	96.0			

Table 8. Population and Housing Units, 1970 to 1990; Area Measurements and Density: 1990—Con.

[For information concerning historical counts, see "User Notes." Density is computed using land area. For definitions of terms and meanings of symbols, see text]

Table with columns for Puerto Rico, Municipio, Municipio Subdivision, Place, Population (1990, 1980, 1970), Housing units (1990, 1980, 1970), 1990 area measurements (Total area: Square kilometers, Square miles; Land area: Square kilometers, Square miles), and 1990 density (Population per square kilometer, square mile; Housing units per square kilometer, square mile).

POPULATION AND HOUSING UNIT COUNTS

Table 10. 1990 Population Rank; Population and Housing Units: 1980 and 1990

[For information concerning historical counts, see "User Notes." For definitions of terms and meanings of symbols, see text]

Place [2,500 or More Persons]	1990 population rank	Population		Housing units		Place [2,500 or More Persons]	1990 population rank	Population		Housing units	
		1990	1980	1990	1980			1990	1980	1990	1980
San Juan zona urbana, San Juan Municipio	1	426 832	424 600	164 397	152 925	Punta Santiago comunidad, Humacao Municipio	51	6 112	5 573	2 130	1 752
Bayamón zona urbana, Bayamón Municipio	2	202 103	185 087	64 837	52 853	Peñuelas zona urbana, Peñuelas Municipio	52	5 918	4 235	1 774	1 251
Carolina zona urbana, Carolina Municipio	3	162 404	147 835	57 030	47 758	San Antonio comunidad, Dorado Municipio	53	5 875	3 929	1 775	1 255
Ponce zona urbana, Ponce Municipio	4	159 151	161 739	51 742	47 533	Añasco zona urbana, Añasco Municipio	54	5 826	5 646	2 088	1 748
Caguas zona urbana, Caguas Municipio	5	92 429	87 214	30 354	26 485	Florida zona urbana, Florida Municipio	55	5 748	3 641	1 918	1 132
Mayagüez zona urbana, Mayagüez Municipio	6	83 010	82 968	29 692	27 599	Candelaria Arenas comunidad, Toa Baja Municipio	56	5 712	...	1 727	...
Guaynabo zona urbana, Guaynabo Municipio	7	73 385	65 075	25 343	19 797	Lares zona urbana, Lares Municipio	57	5 627	5 224	1 903	1 584
Arecibo zona urbana, Arecibo Municipio	8	49 545	48 779	17 350	15 330	Cidra zona urbana, Cidra Municipio	58	5 580	6 069	1 745	1 692
Trujillo Alto zona urbana, Trujillo Alto Municipio	9	44 336	41 141	14 052	12 844	Guayanilla zona urbana, Guayanilla Municipio	59	5 469	6 163	1 734	1 768
Cataño zona urbana, Cataño Municipio	10	34 587	26 243	10 744	7 626	Santa Bárbara comunidad, Canóvanas Municipio	60	5 252	4 980	1 554	1 365
Fajardo zona urbana, Fajardo Municipio	11	31 659	26 928	11 473	10 067	Hatillo zona urbana, Hatillo Municipio	61	5 242	5 019	1 757	1 451
Levittown comunidad, Toa Baja Municipio	12	30 807	31 613	10 078	9 248	Ingenio comunidad, Toa Baja Municipio	62	5 111	4 387	1 596	1 295
Vega Baja zona urbana, Vega Baja Municipio	13	27 753	18 233	8 980	5 706	Adjuntas zona urbana, Adjuntas Municipio	63	5 081	5 239	1 681	1 612
Cayey zona urbana, Cayey Municipio	14	23 332	23 305	7 950	7 017	Comerio zona urbana, Comerio Municipio	64	4 978	5 736	1 624	1 693
Guayama zona urbana, Guayama Municipio	15	21 692	21 097	7 264	6 722	Toa Alta zona urbana, Toa Alta Municipio	65	4 941	4 427	1 507	1 201
Humacao zona urbana, Humacao Municipio	16	21 306	19 147	6 952	6 389	Barceloneta zona urbana, Barceloneta Municipio	66	4 873	4 502	1 680	1 543
Aguadilla zona urbana, Aguadilla Municipio	17	18 347	22 039	6 882	7 217	Naguabo zona urbana, Naguabo Municipio	67	4 855	4 135	1 713	1 492
Yauco zona urbana, Yauco Municipio	18	18 158	14 594	6 171	4 851	Aguada zona urbana, Aguada Municipio	68	4 608	5 025	1 649	1 545
Candelaria comunidad, Toa Baja Municipio	19	16 603	4 474	5 029	1 258	Quebradillas zona urbana, Quebradillas Municipio	69	4 574	3 770	1 670	1 162
Manatí zona urbana, Manatí Municipio	20	16 352	17 347	5 967	5 657	Lajas zona urbana, Lajas Municipio	70	4 495	4 275	1 655	1 488
Río Grande zona urbana, Río Grande Municipio	21	15 428	12 047	4 530	3 584	Aguas Buenas zona urbana, Aguas Buenas Municipio	71	4 452	3 766	1 479	1 138
Hormigueros zona urbana, Hormigueros Municipio	22	13 585	12 031	4 731	3 774	Patillas zona urbana, Patillas Municipio	72	4 410	3 172	1 475	957
Isabela zona urbana, Isabela Municipio	23	13 515	12 087	4 546	3 766	Cabán comunidad, Aguadilla Municipio	73	4 327	2 639	1 384	747
Cosamo zona urbana, Cosamo Municipio	24	13 266	12 851	4 378	3 931	Loiza zona urbana, Loiza Municipio	74	4 300	3 932	1 144	964
Dorado zona urbana, Dorado Municipio	25	12 003	10 203	4 539	3 602	Moca zona urbana, Moca Municipio	75	4 231	3 960	1 369	1 140
San Germán zona urbana, San Germán Municipio	26	11 977	13 054	4 240	4 191	Villalba zona urbana, Villalba Municipio	76	4 159	3 469	1 226	862
Corozal zona urbana, Corozal Municipio	27	11 746	6 534	3 535	1 948	Celada comunidad, Gurabo Municipio	77	4 158	2 271	1 259	631
San Sebastián zona urbana, San Sebastián Municipio	28	11 605	10 619	4 150	3 410	Roosevelt Roads comunidad	77	4 158	4 131	1 001	978
Vega Alta zona urbana, Vega Alta Municipio	29	11 187	10 582	3 483	3 000	Rotula Pastillo comunidad, Juana Díaz Municipio	79	4 129	4 350	1 212	1 140
Cabo Rojo zona urbana, Cabo Rojo Municipio	30	10 131	10 292	3 870	3 517	Bajadero comunidad, Arecibo Municipio	80	4 112	3 678	1 458	1 244
Aibonito zona urbana, Aibonito Municipio	31	9 978	9 331	3 245	2 708	Aguilita comunidad, Juana Díaz Municipio	81	4 091	3 964	1 159	1 062
Utua zona urbana, Utua Municipio	32	9 943	11 113	3 349	3 546	Coto Laurel comunidad, Ponce Municipio	82	4 044	2 240	1 135	563
Juana Díaz zona urbana, Juana Díaz Municipio	33	9 660	10 469	3 060	3 074	Vieques comunidad, Loiza Municipio	83	3 971	2 599	1 154	612
Guánica zona urbana, Guánica Municipio	34	9 263	9 628	3 525	3 275	Camuy zona urbana, Camuy Municipio	84	3 890	3 834	1 489	1 272
Gurabo zona urbana, Gurabo Municipio	35	9 199	7 645	3 103	2 246	Jobsos comunidad, Guayama Municipio	85	3 772	4 194	1 168	1 202
Juncos zona urbana, Juncos Municipio	36	9 132	7 851	3 264	2 542	Jayuya zona urbana, Jayuya Municipio	86	3 702	3 588	1 162	1 017
Arroyo zona urbana, Arroyo Municipio	37	8 763	8 435	2 877	2 561	Coco comunidad, Salinas Municipio	87	3 478	2 400	1 118	600
Luquillo zona urbana, Luquillo Municipio	38	8 672	4 531	4 065	2 890	Ceiba comunidad	88	3 454	2 348	1 067	622
Sabana Grande zona urbana, Sabana Grande Municipio	39	8 577	7 435	3 046	2 563	Puerto Real comunidad, Cabo Rojo Municipio	89	3 429	2 390	1 206	795
San Lorenzo zona urbana, San Lorenzo Municipio	40	8 481	8 880	2 981	2 779	Ciales zona urbana, Ciales Municipio	90	3 370	3 582	1 149	1 081
Canóvanas zona urbana, Canóvanas Municipio	41	7 697	7 260	2 452	2 178	La Dolores comunidad, Río Grande Municipio	91	3 255	3 461	1 012	971
Santa Isabel zona urbana, Santa Isabel Municipio	42	7 512	6 948	2 376	2 035	Luyádo comunidad, Aguada Municipio	92	3 121	2 346	950	607
San Isidro comunidad, Canóvanas Municipio	43	7 378	6 242	2 211	1 784	Aguas Claras comunidad, Ceiba Municipio	93	3 091	2 440	1 041	730
Yabucoa zona urbana, Yabucoa Municipio	44	7 262	6 797	2 439	2 099	San José comunidad, Toa Baja Municipio	94	3 076	2 225	923	611
Pájaros comunidad, Toa Alta Municipio	45	6 877	2 611	1 987	725	Coquí comunidad, Salinas Municipio	95	3 051	3 018	1 133	1 005
Salinas zona urbana, Salinas Municipio	46	6 786	6 220	2 309	1 944	Luis Lloréns Torres comunidad, Juana Díaz Municipio	96	2 990	2 499	827	666
Sabana Seca comunidad, Toa Baja Municipio	47	6 755	11 431	2 045	3 144	Campo Rico comunidad, Canóvanas Municipio	97	2 952	1 799	938	499
Campanilla comunidad, Toa Baja Municipio	48	6 681	5 472	2 130	1 675	Martorell comunidad, Yabucoa Municipio	98	2 889	2 561	904	704
Ceiba zona urbana, Ceiba Municipio	49	6 289	4 973	2 120	1 674	Barranquitas zona urbana, Barranquitas Municipio	99	2 786	3 618	962	1 095
Las Piedras zona urbana, Las Piedras Municipio	50	6 195	4 857	2 054	1 561	Corazón comunidad, Guayama Municipio	100	2 747	2 306	846	683
						Santo Domingo comunidad, Peñuelas Municipio	101	2 691	1 884	725	465
						Monserrate comunidad	102	2 647	2 137	854	657
						Imbry comunidad, Barceloneta Municipio	103	2 554	2 702	859	777
						La Fermina comunidad	104	2 525	2 733	775	763
						Maunabo zona urbana, Maunabo Municipio	105	2 516	2 987	771	829

Table 11. Population 1990 and 1980; Housing Units and Land Area: 1990

[For information concerning historical counts, see "User Notes." For definitions of terms and meanings of symbols, see text]

Puerto Rico Urban and Rural and Size of Place	1990 population				1980 population				1990 housing units			1990 land area			
	Number of places	Total popu- lation	Percent of total popu- lation	Percent distribu- tion	Number of places	Total popu- lation	Percent of total popu- lation	Percent distribu- tion	Total hous- ing units	Percent of total housing units	Percent distribu- tion	Square kilometers	Square miles	Percent of total land area	Percent distribu- tion
Puerto Rico -----	220	3 522 037	100.0	...	212	3 196 520	100.0	...	1 188 985	100.0	...	8 874.7	3 426.5	100.0	...
Urban -----	138	2 508 346	71.2	100.0	119	2 134 365	66.8	100.0	851 037	71.6	100.0	1 501.9	579.9	16.9	100.0
Inside urbanized area -----	84	2 125 255	60.3	84.7	58	1 719 508	53.8	80.6	720 311	60.6	84.6	1 274.9	492.3	14.4	84.9
Central place -----	—	—	—	—	8	862 919	27.0	40.4	—	—	—	—	—	—	—
Place of —	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1,000,000 or more -----	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
500,000 to 999,999 -----	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
250,000 to 499,999 -----	—	—	—	—	1	424 600	13.3	19.9	—	—	—	—	—	—	—
100,000 to 249,999 -----	—	—	—	—	1	161 739	5.1	7.6	—	—	—	—	—	—	—
50,000 to 99,999 -----	—	—	—	—	2	170 182	5.3	8.0	—	—	—	—	—	—	—
Less than 50,000 -----	—	—	—	—	4	106 398	3.3	5.0	—	—	—	—	—	—	—
Urban fringe -----	84	2 125 255	60.3	84.7	50	856 589	26.8	40.1	720 311	60.6	84.6	1 274.9	492.3	14.4	84.9
Place of 2,500 or more -----	51	1 684 648	47.8	67.2	29	636 046	19.9	29.8	581 415	48.9	68.3	644.2	248.7	7.3	42.9
100,000 or more -----	4	950 490	27.0	37.9	2	332 922	10.4	15.6	338 006	28.4	39.7	302.2	116.7	3.4	20.1
50,000 to 99,999 -----	3	248 824	7.1	9.9	1	65 075	2.0	3.0	85 389	7.2	10.0	113.8	43.9	1.3	7.6
25,000 to 49,999 -----	5	187 028	5.3	7.5	3	98 997	3.1	4.6	61 204	5.1	7.2	90.2	34.8	1.0	6.0
10,000 to 24,999 -----	8	136 140	3.9	5.4	4	46 091	1.4	2.2	45 524	3.8	5.3	60.8	23.5	.7	4.0
5,000 to 9,999 -----	16	107 085	3.0	4.3	8	53 394	1.7	2.5	34 155	2.9	4.0	47.8	18.5	.5	3.2
2,500 to 4,999 -----	15	55 081	1.6	2.2	11	39 567	1.2	1.9	17 137	1.4	2.0	29.3	11.3	.3	2.0
Place of less than 2,500 -----	33	58 266	1.7	2.3	21	37 746	1.2	1.8	18 075	1.5	2.1	47.1	18.2	.5	3.1
2,000 to 2,499 -----	11	25 708	.7	1.0	8	18 232	.6	.9	7 915	.7	.9	17.5	6.8	.2	1.2
1,500 to 1,999 -----	10	17 718	.5	.7	5	9 017	.3	.4	5 567	.5	.7	17.2	6.6	.2	1.1
1,000 to 1,499 -----	12	14 840	.4	.6	8	10 497	.3	.5	4 593	.4	.5	12.4	4.8	.1	.8
Less than 1,000 -----	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other urban -----	...	382 341	10.9	15.2	...	...	...	...	120 821	10.2	14.2	583.6	225.3	6.6	38.9
Outside urbanized area -----	54	383 091	10.9	15.3	61	414 857	...	...	130 726	11.0	15.4	227.0	87.6	2.6	15.1
Place of —	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
25,000 or more -----	1	31 659	.9	1.3	1	26 928	...	...	11 473	1.0	1.3	20.8	8.0	.2	1.4
10,000 to 24,999 -----	9	124 093	3.5	4.9	12	168 831	...	...	42 693	3.6	5.0	57.3	22.1	.6	3.8
5,000 to 9,999 -----	17	126 568	3.6	5.0	15	100 333	...	...	43 865	3.7	5.2	57.0	22.0	.6	3.8
2,500 to 4,999 -----	27	100 771	2.9	4.0	33	118 765	...	...	32 695	2.7	3.8	91.9	35.5	1.0	6.1
Rural -----	82	1 013 691	28.8	100.0	93	1 062 155	...	...	337 948	28.4	100.0	7 372.8	2 846.6	83.1	100.0
Place of 1,000 to 2,499 -----	81	129 090	3.7	12.7	91	147 308	...	...	43 120	3.6	12.8	108.7	42.0	1.2	1.5
2,000 to 2,499 -----	17	38 762	1.1	3.8	20	45 584	...	...	12 743	1.1	3.8	29.0	11.2	.3	.4
1,500 to 1,999 -----	24	41 535	1.2	4.1	27	46 960	...	...	13 731	1.2	4.1	40.6	15.7	.5	.6
1,000 to 1,499 -----	40	48 793	1.4	4.8	44	54 764	...	...	16 646	1.4	4.9	39.1	15.1	.4	.5
Place of less than 1,000 -----	1	901	—	.1	2	1 737	...	...	312	—	.1	.8	.3	—	—
Other rural -----	...	883 700	25.1	87.2	...	...	...	...	294 516	24.8	87.1	7 263.3	2 804.4	81.8	98.5

Table 12. Urban and Rural Population: 1930 to 1990

[For information concerning historical counts, see "User Notes." For definitions of terms and meanings of symbols, see text]

Size of Place				1960				
	1990	1980	1970	Current urban definition	Previous urban definition	1950	1940	1930
NUMBER OF PLACES								
Urban	138	119	84	55	55	54	45	40
Place of 2,500 or more	105	98	84	55	55	54	45	40
1,000,000 or more	—	—	—	—	—	—	—	—
500,000 to 999,999	—	—	—	—	—	—	—	—
250,000 to 499,999	1	1	1	1	1	—	—	—
100,000 to 249,999	3	3	2	1	1	2	1	1
50,000 to 99,999	3	3	4	1	1	2	2	1
25,000 to 49,999	6	5	2	2	2	2	—	1
10,000 to 24,999	17	19	13	6	6	8	6	6
5,000 to 9,999	33	23	21	12	12	14	13	9
2,500 to 4,999	42	44	41	32	32	26	23	22
Place of less than 2,500	33	21	—	—	...	...	...	...
Rural	82	93	95	31	31	31	35	37
Place of 1,000 to 2,499	81	91	93	24	24	26	32	33
Place of less than 1,000	1	2	2	7	7	5	3	4
Cumulative summary:								
Place of —	—	—	—	—	—	—	—	—
1,000,000 or more	—	—	—	—	—	—	—	—
500,000 or more	—	—	—	—	—	—	—	—
250,000 or more	1	1	1	1	1	—	—	—
100,000 or more	4	4	3	2	2	2	1	1
50,000 or more	7	7	7	3	3	4	3	2
25,000 or more	13	12	9	5	5	6	3	3
10,000 or more	30	31	22	11	11	14	9	9
5,000 or more	63	54	43	23	23	28	22	18
2,500 or more	105	98	84	55	55	54	45	40
POPULATION								
Urban	2 508 346	2 134 365	1 575 491	1 039 301	950 585	894 813	566 357	427 221
Place of 2,500 or more	2 067 739	1 913 822	1 568 654	950 585	950 585	894 813	566 357	427 221
1,000,000 or more	—	—	—	—	—	—	—	—
500,000 to 999,999	—	—	—	—	—	—	—	—
250,000 to 499,999	426 832	424 600	452 749	432 377	432 377	...	...	...
100,000 to 249,999	523 658	494 661	275 785	114 286	114 286	357 205	169 247	114 715
50,000 to 99,999	248 824	235 257	281 668	50 147	50 147	158 436	115 558	53 430
25,000 to 49,999	218 687	174 704	61 943	60 843	60 843	62 418	...	37 060
10,000 to 24,999	260 233	272 541	207 884	94 528	94 528	124 155	111 423	80 953
5,000 to 9,999	233 653	153 727	143 348	87 746	87 746	95 933	86 441	61 076
2,500 to 4,999	155 852	158 332	145 277	110 658	110 658	96 666	83 688	79 987
Place of less than 2,500	58 266	37 746	—	—	—	...	...	...
Other urban	382 341	182 797	6 837	88 716	...	...	...	...
Rural	1 013 691	1 062 155	1 136 542	1 310 243	1 398 959	1 315 890	1 302 898	1 116 692
Place of 1,000 to 2,499	129 090	147 308	137 179	45 134	45 134	47 916	57 642	59 242
Place of less than 1,000	901	1 737	1 085	5 032	5 032	3 285	1 697	3 121
Other rural	883 700	913 110	998 278	1 260 077	1 348 793	1 264 689	1 243 559	1 054 329
PERCENT OF TOTAL POPULATION								
Urban	71.2	66.8	58.1	44.2	40.5	40.5	30.3	27.7
Place of 2,500 or more	58.7	59.9	57.8	40.5	40.5	40.5	30.3	27.7
1,000,000 or more	—	—	—	—	—	—	—	—
500,000 to 999,999	—	—	—	—	—	—	—	—
250,000 to 499,999	12.1	13.3	16.7	18.4	18.4	...	...	...
100,000 to 249,999	14.9	15.5	10.2	4.9	4.9	16.2	9.1	7.4
50,000 to 99,999	7.1	7.4	10.4	2.1	2.1	7.2	6.2	3.5
25,000 to 49,999	6.2	5.5	2.3	2.6	2.6	2.8	...	2.4
10,000 to 24,999	7.4	8.5	7.7	4.0	4.0	5.6	6.0	5.2
5,000 to 9,999	6.6	4.8	5.3	3.7	3.7	4.3	4.6	4.0
2,500 to 4,999	4.4	5.0	5.4	4.7	4.7	4.4	4.5	5.2
Place of less than 2,500	1.7	1.2	—	—	—	...	...	...
Other urban	10.9	5.7	.3	3.8	...	...	...	...
Rural	28.8	33.2	41.9	55.8	59.5	59.5	69.7	72.3
Place of 1,000 to 2,499	3.7	4.6	5.1	1.9	1.9	2.2	3.1	3.8
Place of less than 1,000	—	.1	—	.2	.2	.1	.1	.2
Other rural	25.1	28.6	36.8	53.6	57.4	57.2	66.5	68.3

Table 13. Population Inside and Outside Metropolitan Area by Urban and Rural and Size of Place: 1990

[For definitions of terms and meanings of symbols, see text]

Puerto Rico Inside Metropolitan Area Outside Metropolitan Area	Census designated place					Not in place
	Total population	Total		Central city of metropolitan area		
		Number of places	Population	Number of places	Population	
PUERTO RICO						
Total.....	3 522 037	220	2 255 996	7	860 973	1 266 041
Urban	2 508 346	138	2 126 005	7	860 973	382 341
Inside urbanized area.....	2 125 255	84	1 742 914	6	829 314	382 341
Central place.....	918 057	10	918 057	6	829 314	...
Place of—						
1,000,000 or more.....	—	—	—	—	—	...
500,000 to 999,999.....	—	—	—	—	—	...
250,000 to 499,999.....	426 832	1	426 832	1	426 832	...
100,000 to 249,999.....	159 151	1	159 151	1	159 151	...
50,000 to 99,999.....	175 439	2	175 439	2	175 439	...
Less than 50,000.....	156 635	6	156 635	2	67 892	...
Urban fringe.....	1 207 198	74	824 857	—	—	382 341
Place of 2,500 or more.....	766 591	41	766 591	—	—	...
100,000 or more.....	364 507	2	364 507	—	—	...
50,000 to 99,999.....	73 385	1	73 385	—	—	...
25,000 to 49,999.....	109 730	3	109 730	—	—	...
10,000 to 24,999.....	56 803	4	56 803	—	—	...
5,000 to 9,999.....	107 085	16	107 085	—	—	...
2,500 to 4,999.....	55 081	15	55 081	—	—	...
Place of less than 2,500.....	58 266	33	58 266	—	—	...
2,000 to 2,499.....	25 708	11	25 708	—	—	...
1,500 to 1,999.....	17 718	10	17 718	—	—	...
1,000 to 1,499.....	14 840	12	14 840	—	—	...
Less than 1,000.....	—	—	—	—	—	...
Other urban.....	382 341	...	...	—	—	382 341
Outside urbanized area.....	383 091	54	383 091	1	31 659	...
Place of—						
25,000 or more.....	31 659	1	31 659	1	31 659	...
10,000 to 24,999.....	124 093	9	124 093	—	—	...
5,000 to 9,999.....	126 568	17	126 568	—	—	...
2,500 to 4,999.....	100 771	27	100 771	—	—	...
Rural.....	1 013 691	82	129 991	—	—	883 700
Place of 1,000 to 2,499.....	129 090	81	129 090	—	—	...
2,000 to 2,499.....	38 762	17	38 762	—	—	...
1,500 to 1,999.....	41 535	24	41 535	—	—	...
1,000 to 1,499.....	48 793	40	48 793	—	—	...
Place of less than 1,000.....	901	1	901	—	—	...
Other rural.....	883 700	...	...	...	—	883 700
INSIDE METROPOLITAN AREA						
Total.....	2 784 998	133	1 949 392	7	860 973	835 606
Urban	2 277 138	102	1 899 928	7	860 973	377 210
Inside urbanized area.....	2 107 775	80	1 730 565	6	829 314	377 210
Central place.....	918 057	10	918 057	6	829 314	...
Place of—						
1,000,000 or more.....	—	—	—	—	—	...
500,000 to 999,999.....	—	—	—	—	—	...
250,000 to 499,999.....	426 832	1	426 832	1	426 832	...
100,000 to 249,999.....	159 151	1	159 151	1	159 151	...
50,000 to 99,999.....	175 439	2	175 439	2	175 439	...
Less than 50,000.....	156 635	6	156 635	2	67 892	...
Urban fringe.....	1 189 718	70	812 508	—	—	377 210
Place of 2,500 or more.....	757 982	39	757 982	—	—	...
100,000 or more.....	364 507	2	364 507	—	—	...
50,000 to 99,999.....	73 385	1	73 385	—	—	...
25,000 to 49,999.....	109 730	3	109 730	—	—	...
10,000 to 24,999.....	56 803	4	56 803	—	—	...
5,000 to 9,999.....	101 167	15	101 167	—	—	...
2,500 to 4,999.....	52 390	14	52 390	—	—	...
Place of less than 2,500.....	54 526	31	54 526	—	—	...
2,000 to 2,499.....	23 309	10	23 309	—	—	...
1,500 to 1,999.....	17 718	10	17 718	—	—	...
1,000 to 1,499.....	13 499	11	13 499	—	—	...
Less than 1,000.....	—	—	—	—	—	...
Other urban.....	377 210	...	...	—	—	377 210
Outside urbanized area.....	169 363	22	169 363	1	31 659	...
Place of—						
25,000 or more.....	31 659	1	31 659	1	31 659	...
10,000 to 24,999.....	59 372	5	59 372	—	—	...
5,000 to 9,999.....	36 018	5	36 018	—	—	...
2,500 to 4,999.....	42 314	11	42 314	—	—	...
Rural.....	507 860	31	49 464	—	—	458 396
Place of 1,000 to 2,499.....	49 464	31	49 464	—	—	...
2,000 to 2,499.....	11 068	5	11 068	—	—	...
1,500 to 1,999.....	21 303	12	21 303	—	—	...
1,000 to 1,499.....	17 093	14	17 093	—	—	...
Place of less than 1,000.....	—	—	—	—	—	...
Other rural.....	458 396	...	...	...	—	458 396

Table 13. **Population Inside and Outside Metropolitan Area by Urban and Rural and Size of Place: 1990**—Con.

[For definitions of terms and meanings of symbols, see text]

Puerto Rico Inside Metropolitan Area Outside Metropolitan Area	Total population	Census designated place				Not in place
		Total		Central city of metropolitan area		
		Number of places	Population	Number of places	Population	
OUTSIDE METROPOLITAN AREA						
Total.....	737 039	87	306 604	...	...	430 435
Urban	231 208	36	226 077	...	...	5 131
Inside urbanized area.....	17 480	4	12 349	...	...	5 131
Central place.....	—	—	—	...	...	—
Place of—						
1,000,000 or more.....	—	—	—	...	...	—
500,000 to 999,999.....	—	—	—	...	...	—
250,000 to 499,999.....	—	—	—	...	...	—
100,000 to 249,999.....	—	—	—	...	...	—
50,000 to 99,999.....	—	—	—	...	...	—
Less than 50,000.....	—	—	—	...	...	—
Urban fringe.....	17 480	4	12 349	...	...	5 131
Place of 2,500 or more.....	8 609	2	8 609	...	...	—
100,000 or more.....	—	—	—	...	...	—
50,000 to 99,999.....	—	—	—	...	...	—
25,000 to 49,999.....	—	—	—	...	...	—
10,000 to 24,999.....	—	—	—	...	...	—
5,000 to 9,999.....	5 918	1	5 918	...	...	—
2,500 to 4,999.....	2 691	1	2 691	...	...	—
Place of less than 2,500.....	3 740	2	3 740	...	...	—
2,000 to 2,499.....	2 399	1	2 399	...	...	—
1,500 to 1,999.....	—	—	—	...	...	—
1,000 to 1,499.....	1 341	1	1 341	...	...	—
Less than 1,000.....	—	—	—	...	...	—
Other urban.....	5 131	...	...	...	...	5 131
Outside urbanized area.....	213 728	32	213 728	...	...	—
Place of—						
25,000 or more.....	—	—	—	...	...	—
10,000 to 24,999.....	64 721	4	64 721	...	...	—
5,000 to 9,999.....	90 550	12	90 550	...	...	—
2,500 to 4,999.....	58 457	16	58 457	...	...	—
Rural	505 831	51	80 527	...	...	425 304
Place of 1,000 to 2,499.....	79 626	50	79 626	...	...	—
2,000 to 2,499.....	27 694	12	27 694	...	...	—
1,500 to 1,999.....	20 232	12	20 232	...	...	—
1,000 to 1,499.....	31 700	26	31 700	...	...	—
Place of less than 1,000.....	901	1	901	...	...	—
Other rural.....	425 304	...	...	...	...	425 304

Table 14. Housing Units Inside and Outside Metropolitan Area by Urban and Rural and Size of Place: 1990

[For definitions of terms and meanings of symbols, see text]

Puerto Rico Inside Metropolitan Area Outside Metropolitan Area	Census designated place					Not in place
	All housing units	Total		Central city of metropolitan area		
		Number of places	Housing units	Number of places	Housing units	
PUERTO RICO						
Total.....	1 188 985	220	773 648	7	311 890	415 337
Urban.....	851 037	138	730 216	7	311 890	120 821
Inside urbanized area.....	720 311	84	599 490	6	300 417	120 821
Central place.....	330 266	10	330 266	6	300 417	...
Place of—						
1,000,000 or more.....	—	—	—	—	—	...
500,000 to 999,999.....	—	—	—	—	—	...
250,000 to 499,999.....	164 397	1	164 397	1	164 397	...
100,000 to 249,999.....	51 742	1	51 742	1	51 742	...
50,000 to 99,999.....	60 046	2	60 046	2	60 046	...
Less than 50,000.....	54 081	6	54 081	2	24 232	...
Urban fringe.....	390 045	74	269 224	—	—	120 821
Place of 2,500 or more.....	251 149	41	251 149	—	—	...
100,000 or more.....	121 867	2	121 867	—	—	...
50,000 to 99,999.....	25 343	1	25 343	—	—	...
25,000 to 49,999.....	34 874	3	34 874	—	—	...
10,000 to 24,999.....	17 773	4	17 773	—	—	...
5,000 to 9,999.....	34 155	16	34 155	—	—	...
2,500 to 4,999.....	17 137	15	17 137	—	—	...
Place of less than 2,500.....	18 075	33	18 075	—	—	...
2,000 to 2,499.....	7 915	11	7 915	—	—	...
1,500 to 1,999.....	5 567	10	5 567	—	—	...
1,000 to 1,499.....	4 593	12	4 593	—	—	...
Less than 1,000.....	—	—	—	—	—	...
Other urban.....	120 821	...	...	—	—	120 821
Outside urbanized area.....	130 726	54	130 726	1	11 473	...
Place of—						
25,000 or more.....	11 473	1	11 473	1	11 473	...
10,000 to 24,999.....	42 693	9	42 693	—	—	...
5,000 to 9,999.....	43 865	17	43 865	—	—	...
2,500 to 4,999.....	32 695	27	32 695	—	—	...
Rural.....	337 948	82	43 432	—	—	294 516
Place of 1,000 to 2,499.....	43 120	81	43 120	—	—	...
2,000 to 2,499.....	12 743	17	12 743	—	—	...
1,500 to 1,999.....	13 731	24	13 731	—	—	...
1,000 to 1,499.....	16 646	40	16 646	—	—	...
Place of less than 1,000.....	312	1	312	—	—	...
Other rural.....	294 516	...	...	...	—	294 516
INSIDE METROPOLITAN AREA						
Total.....	946 475	133	671 259	7	311 890	275 216
Urban.....	774 479	102	655 075	7	311 890	119 404
Inside urbanized area.....	715 268	80	595 864	6	300 417	119 404
Central place.....	330 266	10	330 266	6	300 417	...
Place of—						
1,000,000 or more.....	—	—	—	—	—	...
500,000 to 999,999.....	—	—	—	—	—	...
250,000 to 499,999.....	164 397	1	164 397	1	164 397	...
100,000 to 249,999.....	51 742	1	51 742	1	51 742	...
50,000 to 99,999.....	60 046	2	60 046	2	60 046	...
Less than 50,000.....	54 081	6	54 081	2	24 232	...
Urban fringe.....	385 002	70	265 598	—	—	119 404
Place of 2,500 or more.....	248 650	39	248 650	—	—	...
100,000 or more.....	121 867	2	121 867	—	—	...
50,000 to 99,999.....	25 343	1	25 343	—	—	...
25,000 to 49,999.....	34 874	3	34 874	—	—	...
10,000 to 24,999.....	17 773	4	17 773	—	—	...
5,000 to 9,999.....	32 381	15	32 381	—	—	...
2,500 to 4,999.....	16 412	14	16 412	—	—	...
Place of less than 2,500.....	16 948	31	16 948	—	—	...
2,000 to 2,499.....	7 225	10	7 225	—	—	...
1,500 to 1,999.....	5 567	10	5 567	—	—	...
1,000 to 1,499.....	4 156	11	4 156	—	—	...
Less than 1,000.....	—	—	—	—	—	...
Other urban.....	119 404	...	...	—	—	119 404
Outside urbanized area.....	59 211	22	59 211	1	11 473	...
Place of—						
25,000 or more.....	11 473	1	11 473	1	11 473	...
10,000 to 24,999.....	20 730	5	20 730	—	—	...
5,000 to 9,999.....	13 261	5	13 261	—	—	...
2,500 to 4,999.....	13 747	11	13 747	—	—	...
Rural.....	171 996	31	16 184	—	—	155 812
Place of 1,000 to 2,499.....	16 184	31	16 184	—	—	...
2,000 to 2,499.....	3 459	5	3 459	—	—	...
1,500 to 1,999.....	7 220	12	7 220	—	—	...
1,000 to 1,499.....	5 505	14	5 505	—	—	...
Place of less than 1,000.....	—	—	—	—	—	...
Other rural.....	155 812	...	...	...	—	155 812

Table 14. Housing Units Inside and Outside Metropolitan Area by Urban and Rural and Size of Place: 1990 — Con.

[For definitions of terms and meanings of symbols, see text]

Puerto Rico Inside Metropolitan Area Outside Metropolitan Area	All housing units	Census designated place				Not in place
		Total		Central city of metropolitan area		
		Number of places	Housing units	Number of places	Housing units	
OUTSIDE METROPOLITAN AREA						
Total.....	242 510	87	102 389	...	...	140 121
Urban	76 558	36	75 141	...	...	1 417
Inside urbanized area.....	5 043	4	3 626	...	...	1 417
Central place.....	—	—	—	...	...	...
Place of—						
1,000,000 or more.....	—	—	—	...	...	...
500,000 to 999,999.....	—	—	—	...	...	...
250,000 to 499,999.....	—	—	—	...	...	...
100,000 to 249,999.....	—	—	—	...	...	...
50,000 to 99,999.....	—	—	—	...	...	...
Less than 50,000.....	—	—	—	...	...	...
Urban fringe.....	5 043	4	3 626	...	...	1 417
Place of 2,500 or more.....	2 499	2	2 499	...	...	...
100,000 or more.....	—	—	—	...	...	...
50,000 to 99,999.....	—	—	—	...	...	...
25,000 to 49,999.....	—	—	—	...	...	...
10,000 to 24,999.....	—	—	—	...	...	...
5,000 to 9,999.....	1 774	1	1 774	...	...	...
2,500 to 4,999.....	725	1	725	...	...	...
Place of less than 2,500.....	1 127	2	1 127	...	...	...
2,000 to 2,499.....	690	1	690	...	...	...
1,500 to 1,999.....	—	—	—	...	...	...
1,000 to 1,499.....	437	1	437	...	...	...
Less than 1,000.....	—	—	—	...	...	...
Other urban.....	1 417	...	...	...	...	1 417
Outside urbanized area.....	71 515	32	71 515	...	...	...
Place of—						
25,000 or more.....	—	—	—	...	...	...
10,000 to 24,999.....	21 963	4	21 963	...	...	...
5,000 to 9,999.....	30 604	12	30 604	...	...	...
2,500 to 4,999.....	18 948	16	18 948	...	...	...
Rural	165 952	51	27 248	...	...	138 704
Place of 1,000 to 2,499.....	26 936	50	26 936	...	...	...
2,000 to 2,499.....	9 284	12	9 284	...	...	...
1,500 to 1,999.....	6 511	12	6 511	...	...	...
1,000 to 1,499.....	11 141	26	11 141	...	...	...
Place of less than 1,000.....	312	1	312	...	...	...
Other rural.....	138 704	...	...	...	...	138 704

Table 15. Land Area in Square Kilometers Inside and Outside Metropolitan Area by Urban and Rural and Size of Place: 1990

[For definitions of terms and meanings of symbols, see text]

Puerto Rico Inside Metropolitan Area Outside Metropolitan Area	All land area	Census designated place				Not in place
		Total		Central city of metropolitan area		
		Number of places	Land area	Number of places	Land area	
PUERTO RICO						
Total.....	8 874.7	220	1 027.8	7	328.8	7 846.9
Urban	1 501.9	138	918.3	7	328.8	583.6
Inside urbanized area.....	1 274.9	84	691.3	6	308.0	583.6
Central place.....	348.4	10	348.4	6	308.0	...
Place of—						
1,000,000 or more.....	—	—	—	—	—	...
500,000 to 999,999.....	—	—	—	—	—	...
250,000 to 499,999.....	102.2	1	102.2	1	102.2	...
100,000 to 249,999.....	76.6	1	76.6	1	76.6	...
50,000 to 99,999.....	82.7	2	82.7	2	82.7	...
Less than 50,000.....	87.0	6	87.0	2	46.5	...
Urban fringe.....	926.5	74	342.9	—	—	583.6
Place of 2,500 or more.....	295.8	41	295.8	—	—	...
100,000 or more.....	123.5	2	123.5	—	—	...
50,000 to 99,999.....	31.1	1	31.1	—	—	...
25,000 to 49,999.....	34.7	3	34.7	—	—	...
10,000 to 24,999.....	29.4	4	29.4	—	—	...
5,000 to 9,999.....	47.8	16	47.8	—	—	...
2,500 to 4,999.....	29.3	15	29.3	—	—	...
Place of less than 2,500.....	47.1	33	47.1	—	—	...
2,000 to 2,499.....	17.5	11	17.5	—	—	...
1,500 to 1,999.....	17.2	10	17.2	—	—	...
1,000 to 1,499.....	12.4	12	12.4	—	—	...
Less than 1,000.....	—	—	—	—	—	...
Other urban.....	583.6	...	...	—	—	583.6
Outside urbanized area.....	227.0	54	227.0	1	20.8	...
Place of—						
25,000 or more.....	20.8	1	20.8	1	20.8	...
10,000 to 24,999.....	57.3	9	57.3	—	—	...
5,000 to 9,999.....	57.0	17	57.0	—	—	...
2,500 to 4,999.....	91.9	27	91.9	—	—	...
Rural	7 372.8	82	109.5	—	—	7 263.3
Place of 1,000 to 2,499.....	108.7	81	108.7	—	—	...
2,000 to 2,499.....	29.0	17	29.0	—	—	...
1,500 to 1,999.....	40.6	24	40.6	—	—	...
1,000 to 1,499.....	39.1	40	39.1	—	—	...
Place of less than 1,000.....	.8	1	.8	—	—	...
Other rural.....	7 263.3	...	...	—	—	7 263.3
INSIDE METROPOLITAN AREA						
Total.....	4 813.0	133	822.5	7	328.8	3 990.5
Urban	1 358.4	102	780.2	7	328.8	578.2
Inside urbanized area.....	1 261.2	80	683.0	6	308.0	578.2
Central place.....	348.4	10	348.4	6	308.0	...
Place of—						
1,000,000 or more.....	—	—	—	—	—	...
500,000 to 999,999.....	—	—	—	—	—	...
250,000 to 499,999.....	102.2	1	102.2	1	102.2	...
100,000 to 249,999.....	76.6	1	76.6	1	76.6	...
50,000 to 99,999.....	82.7	2	82.7	2	82.7	...
Less than 50,000.....	87.0	6	87.0	2	46.5	...
Urban fringe.....	912.8	70	334.6	—	—	578.2
Place of 2,500 or more.....	290.5	39	290.5	—	—	...
100,000 or more.....	123.5	2	123.5	—	—	...
50,000 to 99,999.....	31.1	1	31.1	—	—	...
25,000 to 49,999.....	34.7	3	34.7	—	—	...
10,000 to 24,999.....	29.4	4	29.4	—	—	...
5,000 to 9,999.....	45.3	15	45.3	—	—	...
2,500 to 4,999.....	26.5	14	26.5	—	—	...
Place of less than 2,500.....	44.1	31	44.1	—	—	...
2,000 to 2,499.....	16.5	10	16.5	—	—	...
1,500 to 1,999.....	17.2	10	17.2	—	—	...
1,000 to 1,499.....	10.4	11	10.4	—	—	...
Less than 1,000.....	—	—	—	—	—	...
Other urban.....	578.2	...	...	—	—	578.2
Outside urbanized area.....	97.1	22	97.1	1	20.8	...
Place of—						
25,000 or more.....	20.8	1	20.8	1	20.8	...
10,000 to 24,999.....	33.2	5	33.2	—	—	...
5,000 to 9,999.....	18.2	5	18.2	—	—	...
2,500 to 4,999.....	24.9	11	24.9	—	—	...
Rural	3 454.6	31	42.3	—	—	3 412.3
Place of 1,000 to 2,499.....	42.3	31	42.3	—	—	...
2,000 to 2,499.....	9.3	5	9.3	—	—	...
1,500 to 1,999.....	21.3	12	21.3	—	—	...
1,000 to 1,499.....	11.7	14	11.7	—	—	...
Place of less than 1,000.....	—	—	—	—	—	...
Other rural.....	3 412.3	...	...	—	—	3 412.3

Table 15. Land Area in Square Kilometers Inside and Outside Metropolitan Area by Urban and Rural and Size of Place: 1990—Con.

[For definitions of terms and meanings of symbols, see text]

Puerto Rico Inside Metropolitan Area Outside Metropolitan Area	All land area	Census designated place				Not in place
		Total		Central city of metropolitan area		
		Number of places	Land area	Number of places	Land area	
OUTSIDE METROPOLITAN AREA						
Total.....	4 061.7	87	205.3	...	...	3 856.4
Urban	143.6	36	138.1	...	...	5.4
Inside urbanized area.....	13.7	4	8.3	...	...	5.4
Central place.....	—	—	—	...	...	...
Place of—						
1,000,000 or more.....	—	—	—	...	...	...
500,000 to 999,999.....	—	—	—	...	...	...
250,000 to 499,999.....	—	—	—	...	...	...
100,000 to 249,999.....	—	—	—	...	...	...
50,000 to 99,999.....	—	—	—	...	...	...
Less than 50,000.....	—	—	—	...	...	...
Urban fringe.....	13.7	4	8.3	...	...	5.4
Place of 2,500 or more.....	5.3	2	5.3	...	...	...
100,000 or more.....	—	—	—	...	...	...
50,000 to 99,999.....	—	—	—	...	...	...
25,000 to 49,999.....	—	—	—	...	...	...
10,000 to 24,999.....	—	—	—	...	...	...
5,000 to 9,999.....	2.5	1	2.5	...	...	...
2,500 to 4,999.....	2.8	1	2.8	...	...	...
Place of less than 2,500.....	3.0	2	3.0	...	...	...
2,000 to 2,499.....	1.0	1	1.0	...	...	...
1,500 to 1,999.....	—	—	—	...	...	...
1,000 to 1,499.....	2.0	1	2.0	...	...	...
Less than 1,000.....	—	—	—	...	...	...
Other urban.....	5.4	...	...	...	...	5.4
Outside urbanized area.....	129.8	32	129.8	...	...	...
Place of—						
25,000 or more.....	—	—	—	...	...	...
10,000 to 24,999.....	24.1	4	24.1	...	...	...
5,000 to 9,999.....	38.8	12	38.8	...	...	...
2,500 to 4,999.....	67.0	16	67.0	...	...	...
Rural	3 918.2	51	67.2	...	...	3 850.9
Place of 1,000 to 2,499.....	66.4	50	66.4	...	...	...
2,000 to 2,499.....	19.8	12	19.8	...	...	...
1,500 to 1,999.....	19.3	12	19.3	...	...	...
1,000 to 1,499.....	27.4	26	27.4	...	...	...
Place of less than 1,000.....	.8	1	.8	...	...	...
Other rural.....	3 850.9	...	...	...	...	3 850.9

Table 16. Land Area in Square Miles Inside and Outside Metropolitan Area by Urban and Rural and Size of Place: 1990

[For definitions of terms and meanings of symbols, see text]

Puerto Rico Inside Metropolitan Area Outside Metropolitan Area	All land area	Census designated place				Not in place
		Total		Central city of metropolitan area		
		Number of places	Land area	Number of places	Land area	
PUERTO RICO						
Total.....	3 426.5	220	396.8	7	127.0	3 029.7
Urban	579.9	138	354.6	7	127.0	225.3
Inside urbanized area.....	492.3	84	266.9	6	118.9	225.3
Central place.....	134.5	10	134.5	6	118.9	...
Place of—						
1,000,000 or more.....	—	—	—	—	—	...
500,000 to 999,999.....	—	—	—	—	—	...
250,000 to 499,999.....	39.4	1	39.4	1	39.4	...
100,000 to 249,999.....	29.6	1	29.6	1	29.6	...
50,000 to 99,999.....	31.9	2	31.9	2	31.9	...
Less than 50,000.....	33.6	6	33.6	2	18.0	...
Urban fringe.....	357.7	74	132.4	—	—	225.3
Place of 2,500 or more.....	114.2	41	114.2	—	—	...
100,000 or more.....	47.7	2	47.7	—	—	...
50,000 to 99,999.....	12.0	1	12.0	—	—	...
25,000 to 49,999.....	13.4	3	13.4	—	—	...
10,000 to 24,999.....	11.4	4	11.4	—	—	...
5,000 to 9,999.....	18.5	16	18.5	—	—	...
2,500 to 4,999.....	11.3	15	11.3	—	—	...
Place of less than 2,500.....	18.2	33	18.2	—	—	...
2,000 to 2,499.....	6.8	11	6.8	—	—	...
1,500 to 1,999.....	6.6	10	6.6	—	—	...
1,000 to 1,499.....	4.8	12	4.8	—	—	...
Less than 1,000.....	—	—	—	—	—	...
Other urban.....	225.3	...	...	—	—	225.3
Outside urbanized area.....	87.6	54	87.6	1	8.0	...
Place of—						
25,000 or more.....	8.0	1	8.0	1	8.0	...
10,000 to 24,999.....	22.1	9	22.1	—	—	...
5,000 to 9,999.....	22.0	17	22.0	—	—	...
2,500 to 4,999.....	35.5	27	35.5	—	—	...
Rural	2 846.6	82	42.3	—	—	2 804.4
Place of 1,000 to 2,499.....	42.0	81	42.0	—	—	...
2,000 to 2,499.....	11.2	17	11.2	—	—	...
1,500 to 1,999.....	15.7	24	15.7	—	—	...
1,000 to 1,499.....	15.1	40	15.1	—	—	...
Place of less than 1,000.....	.3	1	.3	—	—	...
Other rural.....	2 804.4	...	...	...	—	2 804.4
INSIDE METROPOLITAN AREA						
Total.....	1 858.3	133	317.6	7	127.0	1 540.7
Urban	524.5	102	301.2	7	127.0	223.2
Inside urbanized area.....	487.0	80	263.7	6	118.9	223.2
Central place.....	134.5	10	134.5	6	118.9	...
Place of—						
1,000,000 or more.....	—	—	—	—	—	...
500,000 to 999,999.....	—	—	—	—	—	...
250,000 to 499,999.....	39.4	1	39.4	1	39.4	...
100,000 to 249,999.....	29.6	1	29.6	1	29.6	...
50,000 to 99,999.....	31.9	2	31.9	2	31.9	...
Less than 50,000.....	33.6	6	33.6	2	18.0	...
Urban fringe.....	352.4	70	129.2	—	—	223.2
Place of 2,500 or more.....	112.2	39	112.2	—	—	...
100,000 or more.....	47.7	2	47.7	—	—	...
50,000 to 99,999.....	12.0	1	12.0	—	—	...
25,000 to 49,999.....	13.4	3	13.4	—	—	...
10,000 to 24,999.....	11.4	4	11.4	—	—	...
5,000 to 9,999.....	17.5	15	17.5	—	—	...
2,500 to 4,999.....	10.2	14	10.2	—	—	...
Place of less than 2,500.....	17.0	31	17.0	—	—	...
2,000 to 2,499.....	6.4	10	6.4	—	—	...
1,500 to 1,999.....	6.6	10	6.6	—	—	...
1,000 to 1,499.....	4.0	11	4.0	—	—	...
Less than 1,000.....	—	—	—	—	—	...
Other urban.....	223.2	...	...	—	—	223.2
Outside urbanized area.....	37.5	22	37.5	1	8.0	...
Place of—						
25,000 or more.....	8.0	1	8.0	1	8.0	...
10,000 to 24,999.....	12.8	5	12.8	—	—	...
5,000 to 9,999.....	7.0	5	7.0	—	—	...
2,500 to 4,999.....	9.6	11	9.6	—	—	...
Rural	1 333.8	31	16.3	—	—	1 317.5
Place of 1,000 to 2,499.....	16.3	31	16.3	—	—	...
2,000 to 2,499.....	3.6	5	3.6	—	—	...
1,500 to 1,999.....	8.2	12	8.2	—	—	...
1,000 to 1,499.....	4.5	14	4.5	—	—	...
Place of less than 1,000.....	—	—	—	—	—	...
Other rural.....	1 317.5	...	...	...	—	1 317.5

Table 16. Land Area in Square Miles Inside and Outside Metropolitan Area by Urban and Rural and Size of Place: 1990—Con.

[For definitions of terms and meanings of symbols, see text]

Puerto Rico Inside Metropolitan Area Outside Metropolitan Area	All land area	Census designated place				Not in place
		Total		Central city of metropolitan area		
		Number of places	Land area	Number of places	Land area	
OUTSIDE METROPOLITAN AREA						
Total.....	1 568.2	87	79.3	...	...	1 488.9
Urban	55.4	36	53.3	...	...	2.1
Inside urbanized area.....	5.3	4	3.2	...	...	2.1
Central place.....	—	—	—	...	...	...
Place of—						
1,000,000 or more.....	—	—	—	...	...	...
500,000 to 999,999.....	—	—	—	...	...	...
250,000 to 499,999.....	—	—	—	...	...	...
100,000 to 249,999.....	—	—	—	...	...	...
50,000 to 99,999.....	—	—	—	...	...	...
Less than 50,000.....	—	—	—	...	...	...
Urban fringe.....	5.3	4	3.2	...	...	2.1
Place of 2,500 or more.....	2.0	2	2.0	...	...	...
100,000 or more.....	—	—	—	...	...	...
50,000 to 99,999.....	—	—	—	...	...	...
25,000 to 49,999.....	—	—	—	...	...	...
10,000 to 24,999.....	—	—	—	...	...	...
5,000 to 9,999.....	1.0	1	1.0	...	...	...
2,500 to 4,999.....	1.1	1	1.1	...	...	...
Place of less than 2,500.....	1.2	2	1.2	...	...	...
2,000 to 2,499.....	.4	1	.4	...	...	...
1,500 to 1,999.....	—	—	—	...	...	...
1,000 to 1,499.....	.8	1	.8	...	...	...
Less than 1,000.....	—	—	—	...	...	...
Other urban.....	2.1	...	...	...	...	2.1
Outside urbanized area.....	50.1	32	50.1	...	...	...
Place of—						
25,000 or more.....	—	—	—	...	...	...
10,000 to 24,999.....	9.3	4	9.3	...	...	...
5,000 to 9,999.....	15.0	12	15.0	...	...	...
2,500 to 4,999.....	25.9	16	25.9	...	...	...
Rural	1 512.8	51	26.0	...	...	1 486.8
Place of 1,000 to 2,499.....	25.7	50	25.7	...	...	...
2,000 to 2,499.....	7.6	12	7.6	...	...	...
1,500 to 1,999.....	7.5	12	7.5	...	...	...
1,000 to 1,499.....	10.6	26	10.6	...	...	...
Place of less than 1,000.....	.3	1	.3	...	...	...
Other rural.....	1 486.8	...	...	...	...	1 486.8

Table 17. Population Inside and Outside Metropolitan Area by Size of Place: 1990

[For definitions of terms and meanings of symbols, see text]

Puerto Rico Inside Metropolitan Area Outside Metropolitan Area	Census designated place					Not in place
	Total population	Total		Central city of metropolitan area		
		Number of places	Population	Number of places	Population	
PUERTO RICO						
Total	3 522 037	220	2 255 996	7	860 973	1 266 041
In place	2 255 996	220	2 255 996	7	860 973	...
Place of—						
1,000,000 or more	—	—	—	—	—	...
500,000 to 999,999	—	—	—	—	—	...
250,000 to 499,999	426 832	1	426 832	1	426 832	...
100,000 to 249,999	523 658	3	523 658	1	159 151	...
50,000 to 99,999	248 824	3	248 824	2	175 439	...
25,000 to 49,999	218 687	6	218 687	2	81 204	...
10,000 to 24,999	260 233	17	260 233	1	18 347	...
5,000 to 9,999	233 653	33	233 653	...	...	...
2,500 to 4,999	155 852	42	155 852	...	...	...
2,000 to 2,499	64 470	28	64 470	...	...	...
1,500 to 1,999	59 253	34	59 253	...	...	...
1,000 to 1,499	63 633	52	63 633	...	...	...
500 to 999	901	1	901	...	...	...
200 to 499 .....	—	—	—	...	...	...
Less than 200 .....	—	—	—	...	...	...
Cumulative summary:						
Place of—						
1,000,000 or more	—	—	—	—	—	...
500,000 or more	—	—	—	—	—	...
250,000 or more	426 832	1	426 832	1	426 832	...
100,000 or more	585 983	2	585 983	2	585 983	...
50,000 or more	761 422	4	761 422	4	761 422	...
25,000 or more	842 626	6	842 626	6	842 626	...
10,000 or more	860 973	7	860 973	7	860 973	...
5,000 or more	860 973	7	860 973	7	860 973	...
2,500 or more	860 973	7	860 973	7	860 973	...
2,000 or more	860 973	7	860 973	7	860 973	...
1,500 or more	860 973	7	860 973	7	860 973	...
1,000 or more	860 973	7	860 973	7	860 973	...
500 or more	860 973	7	860 973	7	860 973	...
200 or more	860 973	7	860 973	7	860 973	...
Not in place	1 266 041	...	...	...	...	1 266 041
INSIDE METROPOLITAN AREA						
Total	2 784 998	133	1 949 392	7	860 973	835 606
In place	1 949 392	133	1 949 392	7	860 973	...
Place of—						
1,000,000 or more	—	—	—	—	—	...
500,000 to 999,999	—	—	—	—	—	...
250,000 to 499,999	426 832	1	426 832	1	426 832	...
100,000 to 249,999	523 658	3	523 658	1	159 151	...
50,000 to 99,999	248 824	3	248 824	2	175 439	...
25,000 to 49,999	218 687	6	218 687	2	81 204	...
10,000 to 24,999	195 512	13	195 512	1	18 347	...
5,000 to 9,999	137 185	20	137 185	...	...	...
2,500 to 4,999	94 704	25	94 704	...	...	...
2,000 to 2,499	34 377	15	34 377	...	...	...
1,500 to 1,999	39 021	22	39 021	...	...	...
1,000 to 1,499	30 592	25	30 592	...	...	...
500 to 999 .....	—	—	—	...	...	...
200 to 499 .....	—	—	—	...	...	...
Less than 200 .....	—	—	—	...	...	...
Cumulative summary:						
Place of—						
1,000,000 or more	—	—	—	—	—	...
500,000 or more	—	—	—	—	—	...
250,000 or more	426 832	1	426 832	1	426 832	...
100,000 or more	585 983	2	585 983	2	585 983	...
50,000 or more	761 422	4	761 422	4	761 422	...
25,000 or more	842 626	6	842 626	6	842 626	...
10,000 or more	860 973	7	860 973	7	860 973	...
5,000 or more	860 973	7	860 973	7	860 973	...
2,500 or more	860 973	7	860 973	7	860 973	...
2,000 or more	860 973	7	860 973	7	860 973	...
1,500 or more	860 973	7	860 973	7	860 973	...
1,000 or more	860 973	7	860 973	7	860 973	...
500 or more	860 973	7	860 973	7	860 973	...
200 or more	860 973	7	860 973	7	860 973	...
Not in place	835 606	...	...	...	...	835 606

Table 17. **Population Inside and Outside Metropolitan Area by Size of Place: 1990** —Con.

[For definitions of terms and meanings of symbols, see text]

Puerto Rico Inside Metropolitan Area Outside Metropolitan Area	Total population	Census designated place				Not in place
		Total		Central city of metropolitan area		
		Number of places	Population	Number of places	Population	
OUTSIDE METROPOLITAN AREA						
Total	737 039	87	306 604	...	...	430 435
In place	306 604	87	306 604	...	...	...
Place of—						
1,000,000 or more .....	—	—	—	...	...	...
500,000 to 999,999 .....	—	—	—	...	...	...
250,000 to 499,999 .....	—	—	—	...	...	...
100,000 to 249,999 .....	—	—	—	...	...	...
50,000 to 99,999 .....	—	—	—	...	...	...
25,000 to 49,999 .....	—	—	—	...	...	...
10,000 to 24,999	64 721	4	64 721	...	...	...
5,000 to 9,999	96 468	13	96 468	...	...	...
2,500 to 4,999	61 148	17	61 148	...	...	...
2,000 to 2,499	30 093	13	30 093	...	...	...
1,500 to 1,999	20 232	12	20 232	...	...	...
1,000 to 1,499	33 041	27	33 041	...	...	...
500 to 999	901	1	901	...	...	...
200 to 499 .....	—	—	—	...	...	...
Less than 200 .....	—	—	—	...	...	...
Cumulative summary:						
Place of—						
1,000,000 or more .....	—	—	—	...	...	...
500,000 or more .....	—	—	—	...	...	...
250,000 or more .....	—	—	—	...	...	...
100,000 or more .....	—	—	—	...	...	...
50,000 or more .....	—	—	—	...	...	...
25,000 or more .....	—	—	—	...	...	...
10,000 or more .....	—	—	—	...	...	...
5,000 or more .....	—	—	—	...	...	...
2,500 or more .....	—	—	—	...	...	...
2,000 or more .....	—	—	—	...	...	...
1,500 or more .....	—	—	—	...	...	...
1,000 or more .....	—	—	—	...	...	...
500 or more .....	—	—	—	...	...	...
200 or more .....	—	—	—	...	...	...
Not in place	430 435	...	...	...	...	430 435

Table 18. Housing Units Inside and Outside Metropolitan Area by Size of Place: 1990

[For definitions of terms and meanings of symbols, see text]

Puerto Rico Inside Metropolitan Area Outside Metropolitan Area	All housing units	Census designated place				Not in place
		Total		Central city of metropolitan area		
		Number of places	Housing units	Number of places	Housing units	
PUERTO RICO						
Total	1 188 985	220	773 648	7	311 890	415 337
In place	773 648	220	773 648	7	311 890	...
Place of—						
1,000,000 or more	—	—	—	—	—	...
500,000 to 999,999	—	—	—	—	—	...
250,000 to 499,999	164 397	1	164 397	1	164 397	...
100,000 to 249,999	173 609	3	173 609	1	51 742	...
50,000 to 99,999	85 389	3	85 389	2	60 046	...
25,000 to 49,999	72 677	6	72 677	2	28 823	...
10,000 to 24,999	88 217	17	88 217	1	6 882	...
5,000 to 9,999	78 020	33	78 020	...	...	...
2,500 to 4,999	49 832	42	49 832	...	...	...
2,000 to 2,499	20 658	28	20 658	...	...	...
1,500 to 1,999	19 298	34	19 298	...	...	...
1,000 to 1,499	21 239	52	21 239	...	...	...
500 to 999	312	1	312	...	...	...
200 to 499 .....	—	—	—	...	...	...
Less than 200 .....	—	—	—	...	...	...
Cumulative summary:						
Place of—						
1,000,000 or more	—	—	—	—	—	...
500,000 or more	—	—	—	—	—	...
250,000 or more	164 397	1	164 397	1	164 397	...
100,000 or more	216 139	2	216 139	2	216 139	...
50,000 or more	276 185	4	276 185	4	276 185	...
25,000 or more	305 008	6	305 008	6	305 008	...
10,000 or more	311 890	7	311 890	7	311 890	...
5,000 or more	311 890	7	311 890	7	311 890	...
2,500 or more	311 890	7	311 890	7	311 890	...
2,000 or more	311 890	7	311 890	7	311 890	...
1,500 or more	311 890	7	311 890	7	311 890	...
1,000 or more	311 890	7	311 890	7	311 890	...
500 or more	311 890	7	311 890	7	311 890	...
200 or more	311 890	7	311 890	7	311 890	...
Not in place	415 337	...	...	...	...	415 337
INSIDE METROPOLITAN AREA						
Total	946 475	133	671 259	7	311 890	275 216
In place	671 259	133	671 259	7	311 890	...
Place of—						
1,000,000 or more	—	—	—	—	—	...
500,000 to 999,999	—	—	—	—	—	...
250,000 to 499,999	164 397	1	164 397	1	164 397	...
100,000 to 249,999	173 609	3	173 609	1	51 742	...
50,000 to 99,999	85 389	3	85 389	2	60 046	...
25,000 to 49,999	72 677	6	72 677	2	28 823	...
10,000 to 24,999	66 254	13	66 254	1	6 882	...
5,000 to 9,999	45 642	20	45 642	...	...	...
2,500 to 4,999	30 159	25	30 159	...	...	...
2,000 to 2,499	10 684	15	10 684	...	...	...
1,500 to 1,999	12 787	22	12 787	...	...	...
1,000 to 1,499	9 661	25	9 661	...	...	...
500 to 999 .....	—	—	—	...	...	...
200 to 499 .....	—	—	—	...	...	...
Less than 200 .....	—	—	—	...	...	...
Cumulative summary:						
Place of—						
1,000,000 or more	—	—	—	—	—	...
500,000 or more	—	—	—	—	—	...
250,000 or more	164 397	1	164 397	1	164 397	...
100,000 or more	216 139	2	216 139	2	216 139	...
50,000 or more	276 185	4	276 185	4	276 185	...
25,000 or more	305 008	6	305 008	6	305 008	...
10,000 or more	311 890	7	311 890	7	311 890	...
5,000 or more	311 890	7	311 890	7	311 890	...
2,500 or more	311 890	7	311 890	7	311 890	...
2,000 or more	311 890	7	311 890	7	311 890	...
1,500 or more	311 890	7	311 890	7	311 890	...
1,000 or more	311 890	7	311 890	7	311 890	...
500 or more	311 890	7	311 890	7	311 890	...
200 or more	311 890	7	311 890	7	311 890	...
Not in place	275 216	...	...	...	...	275 216

Table 18. Housing Units Inside and Outside Metropolitan Area by Size of Place: 1990—Con.

[For definitions of terms and meanings of symbols, see text]

Puerto Rico Inside Metropolitan Area Outside Metropolitan Area	All housing units	Census designated place				Not in place
		Total		Central city of metropolitan area		
		Number of places	Housing units	Number of places	Housing units	
OUTSIDE METROPOLITAN AREA						
Total	242 510	87	102 389	...	...	140 121
In place	102 389	87	102 389	...	...	...
Place of—						
1,000,000 or more .....	—	—	—	...	...	...
500,000 to 999,999 .....	—	—	—	...	...	...
250,000 to 499,999 .....	—	—	—	...	...	...
100,000 to 249,999 .....	—	—	—	...	...	...
50,000 to 99,999 .....	—	—	—	...	...	...
25,000 to 49,999 .....	—	—	—	...	...	...
10,000 to 24,999	21 963	4	21 963	...	...	...
5,000 to 9,999	32 378	13	32 378	...	...	...
2,500 to 4,999	19 673	17	19 673	...	...	...
2,000 to 2,499	9 974	13	9 974	...	...	...
1,500 to 1,999	6 511	12	6 511	...	...	...
1,000 to 1,499	11 578	27	11 578	...	...	...
500 to 999	312	1	312	...	...	...
200 to 499 .....	—	—	—	...	...	...
Less than 200 .....	—	—	—	...	...	...
Cumulative summary:						
Place of—						
1,000,000 or more .....	—	—	—	...	...	...
500,000 or more .....	—	—	—	...	...	...
250,000 or more .....	—	—	—	...	...	...
100,000 or more .....	—	—	—	...	...	...
50,000 or more .....	—	—	—	...	...	...
25,000 or more .....	—	—	—	...	...	...
10,000 or more .....	—	—	—	...	...	...
5,000 or more .....	—	—	—	...	...	...
2,500 or more .....	—	—	—	...	...	...
2,000 or more .....	—	—	—	...	...	...
1,500 or more .....	—	—	—	...	...	...
1,000 or more .....	—	—	—	...	...	...
500 or more .....	—	—	—	...	...	...
200 or more .....	—	—	—	...	...	...
Not in place	140 121	...	...	...	...	140 121

Table 19. Land Area in Square Kilometers Inside and Outside Metropolitan Area by Size of Place: 1990

[For definitions of terms and meanings of symbols, see text]

Puerto Rico Inside Metropolitan Area Outside Metropolitan Area	Census designated place					Not in place
	All land area	Total		Central city of metropolitan area		
		Number of places	Land area	Number of places	Land area	
PUERTO RICO						
Total	8 874.7	220	1 027.8	7	328.8	7 846.9
In place	1 027.8	220	1 027.8	7	328.8	...
Place of—						
1,000,000 or more	—	—	—	—	—	...
500,000 to 999,999	—	—	—	—	—	...
250,000 to 499,999	102.2	1	102.2	1	102.2	...
100,000 to 249,999	200.1	3	200.1	1	76.6	...
50,000 to 99,999	113.8	3	113.8	2	82.7	...
25,000 to 49,999	111.1	6	111.1	2	60.7	...
10,000 to 24,999	118.1	17	118.1	1	6.7	...
5,000 to 9,999	104.8	33	104.8	...	...	...
2,500 to 4,999	121.1	42	121.1	...	...	...
2,000 to 2,499	46.5	28	46.5	...	...	...
1,500 to 1,999	57.8	34	57.8	...	...	...
1,000 to 1,499	51.5	52	51.5	...	...	...
500 to 999 .....	.8	1	.8	...	...	...
200 to 499 .....	—	—	—	...	...	...
Less than 200 .....	—	—	—	...	...	...
Cumulative summary:						
Place of—						
1,000,000 or more	—	—	—	—	—	...
500,000 or more	—	—	—	—	—	...
250,000 or more	102.2	1	102.2	1	102.2	...
100,000 or more	178.8	2	178.8	2	178.8	...
50,000 or more	261.5	4	261.5	4	261.5	...
25,000 or more	322.1	6	322.1	6	322.1	...
10,000 or more	328.8	7	328.8	7	328.8	...
5,000 or more	328.8	7	328.8	7	328.8	...
2,500 or more	328.8	7	328.8	7	328.8	...
2,000 or more	328.8	7	328.8	7	328.8	...
1,500 or more	328.8	7	328.8	7	328.8	...
1,000 or more	328.8	7	328.8	7	328.8	...
500 or more	328.8	7	328.8	7	328.8	...
200 or more	328.8	7	328.8	7	328.8	...
Not in place	7 846.9	...	...	...	...	7 846.9
INSIDE METROPOLITAN AREA						
Total	4 813.0	133	822.5	7	328.8	3 990.5
In place	822.5	133	822.5	7	328.8	...
Place of—						
1,000,000 or more	—	—	—	—	—	...
500,000 to 999,999	—	—	—	—	—	...
250,000 to 499,999	102.2	1	102.2	1	102.2	...
100,000 to 249,999	200.1	3	200.1	1	76.6	...
50,000 to 99,999	113.8	3	113.8	2	82.7	...
25,000 to 49,999	111.1	6	111.1	2	60.7	...
10,000 to 24,999	94.1	13	94.1	1	6.7	...
5,000 to 9,999	63.5	20	63.5	...	...	...
2,500 to 4,999	51.3	25	51.3	...	...	...
2,000 to 2,499	25.8	15	25.8	...	...	...
1,500 to 1,999	38.5	22	38.5	...	...	...
1,000 to 1,499	22.1	25	22.1	...	...	...
500 to 999 .....	—	—	—	...	...	...
200 to 499 .....	—	—	—	...	...	...
Less than 200 .....	—	—	—	...	...	...
Cumulative summary:						
Place of—						
1,000,000 or more	—	—	—	—	—	...
500,000 or more	—	—	—	—	—	...
250,000 or more	102.2	1	102.2	1	102.2	...
100,000 or more	178.8	2	178.8	2	178.8	...
50,000 or more	261.5	4	261.5	4	261.5	...
25,000 or more	322.1	6	322.1	6	322.1	...
10,000 or more	328.8	7	328.8	7	328.8	...
5,000 or more	328.8	7	328.8	7	328.8	...
2,500 or more	328.8	7	328.8	7	328.8	...
2,000 or more	328.8	7	328.8	7	328.8	...
1,500 or more	328.8	7	328.8	7	328.8	...
1,000 or more	328.8	7	328.8	7	328.8	...
500 or more	328.8	7	328.8	7	328.8	...
200 or more	328.8	7	328.8	7	328.8	...
Not in place	3 990.5	...	...	...	...	3 990.5

Table 19. Land Area in Square Kilometers Inside and Outside Metropolitan Area by Size of Place: 1990—Con.

[For definitions of terms and meanings of symbols, see text]

Puerto Rico Inside Metropolitan Area Outside Metropolitan Area	All land area	Census designated place				Not in place
		Total		Central city of metropolitan area		
		Number of places	Land area	Number of places	Land area	
OUTSIDE METROPOLITAN AREA						
Total	4 061.7	87	205.3	...	...	3 856.4
In place	205.3	87	205.3	...	...	...
Place of—						
1,000,000 or more .....	—	—	—	...	...	...
500,000 to 999,999 .....	—	—	—	...	...	...
250,000 to 499,999 .....	—	—	—	...	...	...
100,000 to 249,999 .....	—	—	—	...	...	...
50,000 to 99,999 .....	—	—	—	...	...	...
25,000 to 49,999 .....	—	—	—	...	...	...
10,000 to 24,999	24.1	4	24.1	...	...	...
5,000 to 9,999	41.3	13	41.3	...	...	...
2,500 to 4,999	69.8	17	69.8	...	...	...
2,000 to 2,499	20.8	13	20.8	...	...	...
1,500 to 1,999	19.3	12	19.3	...	...	...
1,000 to 1,499	29.4	27	29.4	...	...	...
500 to 999 .....	.8	1	.8	...	...	...
200 to 499 .....	—	—	—	...	...	...
Less than 200 .....	—	—	—	...	...	...
Cumulative summary:						
Place of—						
1,000,000 or more .....	—	—	—	...	...	...
500,000 or more .....	—	—	—	...	...	...
250,000 or more .....	—	—	—	...	...	...
100,000 or more .....	—	—	—	...	...	...
50,000 or more .....	—	—	—	...	...	...
25,000 or more .....	—	—	—	...	...	...
10,000 or more .....	—	—	—	...	...	...
5,000 or more .....	—	—	—	...	...	...
2,500 or more .....	—	—	—	...	...	...
2,000 or more .....	—	—	—	...	...	...
1,500 or more .....	—	—	—	...	...	...
1,000 or more .....	—	—	—	...	...	...
500 or more .....	—	—	—	...	...	...
200 or more .....	—	—	—	...	...	...
Not in place	3 856.4	...	...	...	...	3 856.4

Table 20. Land Area in Square Miles Inside and Outside Metropolitan Area by Size of Place: 1990

[For definitions of terms and meanings of symbols, see text]

Puerto Rico Inside Metropolitan Area Outside Metropolitan Area	All land area	Census designated place				Not in place
		Total		Central city of metropolitan area		
		Number of places	Land area	Number of places	Land area	
PUERTO RICO						
Total	3 426.5	220	396.8	7	127.0	3 029.7
In place	396.8	220	396.8	7	127.0	...
Place of—						
1,000,000 or more	—	—	—	—	—	...
500,000 to 999,999	—	—	—	—	—	...
250,000 to 499,999	39.4	1	39.4	1	39.4	...
100,000 to 249,999	77.3	3	77.3	1	29.6	...
50,000 to 99,999	43.9	3	43.9	2	31.9	...
25,000 to 49,999	42.9	6	42.9	2	23.4	...
10,000 to 24,999	45.6	17	45.6	1	2.6	...
5,000 to 9,999	40.5	33	40.5	...	...	...
2,500 to 4,999	46.8	42	46.8	...	...	...
2,000 to 2,499	18.0	28	18.0	...	...	...
1,500 to 1,999	22.3	34	22.3	...	...	...
1,000 to 1,499	19.9	52	19.9	...	...	...
500 to 999 .....	.3	1	.3	...	...	...
200 to 499 .....	—	—	—	...	...	...
Less than 200 .....	—	—	—	...	...	...
Cumulative summary:						
Place of—						
1,000,000 or more	—	—	—	—	—	...
500,000 or more	—	—	—	—	—	...
250,000 or more	39.4	1	39.4	1	39.4	...
100,000 or more	69.0	2	69.0	2	69.0	...
50,000 or more	101.0	4	101.0	4	101.0	...
25,000 or more	124.4	6	124.4	6	124.4	...
10,000 or more	127.0	7	127.0	7	127.0	...
5,000 or more	127.0	7	127.0	7	127.0	...
2,500 or more	127.0	7	127.0	7	127.0	...
2,000 or more	127.0	7	127.0	7	127.0	...
1,500 or more	127.0	7	127.0	7	127.0	...
1,000 or more	127.0	7	127.0	7	127.0	...
500 or more	127.0	7	127.0	7	127.0	...
200 or more	127.0	7	127.0	7	127.0	...
Not in place	3 029.7	...	...	...	...	3 029.7
INSIDE METROPOLITAN AREA						
Total	1 858.3	133	317.6	7	127.0	1 540.7
In place	317.6	133	317.6	7	127.0	...
Place of—						
1,000,000 or more	—	—	—	—	—	...
500,000 to 999,999	—	—	—	—	—	...
250,000 to 499,999	39.4	1	39.4	1	39.4	...
100,000 to 249,999	77.3	3	77.3	1	29.6	...
50,000 to 99,999	43.9	3	43.9	2	31.9	...
25,000 to 49,999	42.9	6	42.9	2	23.4	...
10,000 to 24,999	36.3	13	36.3	1	2.6	...
5,000 to 9,999	24.5	20	24.5	...	...	...
2,500 to 4,999	19.8	25	19.8	...	...	...
2,000 to 2,499	9.9	15	9.9	...	...	...
1,500 to 1,999	14.8	22	14.8	...	...	...
1,000 to 1,499	8.5	25	8.5	...	...	...
500 to 999 .....	—	—	—	...	...	...
200 to 499 .....	—	—	—	...	...	...
Less than 200 .....	—	—	—	...	...	...
Cumulative summary:						
Place of—						
1,000,000 or more	—	—	—	—	—	...
500,000 or more	—	—	—	—	—	...
250,000 or more	39.4	1	39.4	1	39.4	...
100,000 or more	69.0	2	69.0	2	69.0	...
50,000 or more	101.0	4	101.0	4	101.0	...
25,000 or more	124.4	6	124.4	6	124.4	...
10,000 or more	127.0	7	127.0	7	127.0	...
5,000 or more	127.0	7	127.0	7	127.0	...
2,500 or more	127.0	7	127.0	7	127.0	...
2,000 or more	127.0	7	127.0	7	127.0	...
1,500 or more	127.0	7	127.0	7	127.0	...
1,000 or more	127.0	7	127.0	7	127.0	...
500 or more	127.0	7	127.0	7	127.0	...
200 or more	127.0	7	127.0	7	127.0	...
Not in place	1 540.7	...	...	...	...	1 540.7

Table 20. Land Area in Square Miles Inside and Outside Metropolitan Area by Size of Place: 1990 — Con.

[For definitions of terms and meanings of symbols, see text]

Puerto Rico Inside Metropolitan Area Outside Metropolitan Area	All land area	Census designated place				Not in place
		Total		Central city of metropolitan area		
		Number of places	Land area	Number of places	Land area	
OUTSIDE METROPOLITAN AREA						
Total	1 568.2	87	79.3	...	...	1 488.9
In place	79.3	87	79.3	...	...	...
Place of—						
1,000,000 or more .....	—	—	—	...	...	...
500,000 to 999,999 .....	—	—	—	...	...	...
250,000 to 499,999 .....	—	—	—	...	...	...
100,000 to 249,999 .....	—	—	—	...	...	...
50,000 to 99,999 .....	—	—	—	...	...	...
25,000 to 49,999 .....	—	—	—	...	...	...
10,000 to 24,999	9.3	4	9.3	...	...	...
5,000 to 9,999	15.9	13	15.9	...	...	...
2,500 to 4,999	26.9	17	26.9	...	...	...
2,000 to 2,499	8.0	13	8.0	...	...	...
1,500 to 1,999	7.5	12	7.5	...	...	...
1,000 to 1,499	11.3	27	11.3	...	...	...
500 to 999 .....	.3	1	.3	...	...	...
200 to 499 .....	—	—	—	...	...	...
Less than 200 .....	—	—	—	...	...	...
Cumulative summary:						
Place of—						
1,000,000 or more .....	—	—	—	...	...	...
500,000 or more .....	—	—	—	...	...	...
250,000 or more .....	—	—	—	...	...	...
100,000 or more .....	—	—	—	...	...	...
50,000 or more .....	—	—	—	...	...	...
25,000 or more .....	—	—	—	...	...	...
10,000 or more .....	—	—	—	...	...	...
5,000 or more .....	—	—	—	...	...	...
2,500 or more .....	—	—	—	...	...	...
2,000 or more .....	—	—	—	...	...	...
1,500 or more .....	—	—	—	...	...	...
1,000 or more .....	—	—	—	...	...	...
500 or more .....	—	—	—	...	...	...
200 or more .....	—	—	—	...	...	...
Not in place	1 488.9	...	...	...	...	1 488.9

Table 23. Population, Housing Units, and Land Area for Urbanized Area: 1990

[Density is computed using land area. For definitions of terms and meanings of symbols, see text]

Urbanized Area	Population Housing units		Area measurements				Density			
			Total area		Land area		Population per—		Housing units per—	
			Square kilo- meters	Square miles	Square kilo- meters	Square miles	Square kilo- meter	Square mile	Square kilo- meter	Square mile
Aguadilla, PR										
The area -----	99 936	33 947	124.4	48.0	120.2	46.4	831.4	2 153.8	282.4	731.6
In central place -----	18 347	6 882	8.2	3.2	6.7	2.6	2 738.4	7 056.5	1 027.2	2 646.9
Aguadilla zona urbana -----	18 347	6 882	8.2	3.2	6.7	2.6	2 738.4	7 056.5	1 027.2	2 646.9
Urban fringe -----	81 589	27 065	116.2	44.9	113.5	43.8	718.8	1 862.8	238.5	617.9
Aguada Municipio (pt.) -----	29 402	9 791	43.8	16.9	43.8	16.9	671.3	1 739.8	223.5	579.3
Aguada barrio-pueblo -----	1 826	739	.3	.1	.3	.1	6 086.7	18 260.0	2 463.3	7 390.0
Aguada zona urbana (pt.) -----	1 752	716	.2	.1	.2	.1	8 760.0	17 520.0	3 580.0	7 160.0
Asomante barrio (pt.) -----	2 528	868	2.3	.9	2.3	.9	1 099.1	2 808.9	377.4	964.4
Aguada zona urbana (pt.) -----	864	270	.3	.1	.3	.1	2 880.0	8 640.0	900.0	2 700.0
Atalaya barrio (pt.) -----	822	267	1.2	.5	1.2	.5	685.0	1 644.0	222.5	534.0
Carrizal barrio (pt.) -----	697	254	2.9	1.1	2.9	1.1	240.3	633.6	87.6	230.9
Cerro Gordo barrio (pt.) -----	1 325	396	2.5	1.0	2.5	1.0	530.0	1 325.0	158.4	396.0
Cruces barrio (pt.) -----	909	310	1.4	.5	1.4	.5	649.3	1 818.0	221.4	620.0
Espinar barrio (pt.) -----	1 378	473	2.3	.9	2.3	.9	599.1	1 531.1	205.7	525.6
Guanábano barrio (pt.) -----	779	231	.4	.2	.4	.2	1 947.5	3 895.0	577.5	1 155.0
Luyándo comunidad (pt.) -----	756	226	.4	.2	.4	.2	1 890.0	3 780.0	565.0	1 130.0
Guaniquilla barrio (pt.) -----	2 611	996	2.9	1.1	2.9	1.1	900.3	2 373.6	343.4	905.5
Aguada zona urbana (pt.) -----	464	170	.1	—	.1	—	4 640.0	—	1 700.0	—
Guayabo barrio (pt.) -----	2 190	709	1.9	.7	1.9	.7	1 152.6	3 128.6	373.2	1 012.9
Aguada zona urbana (pt.) -----	1 378	427	.3	.1	.3	.1	4 593.3	13 780.0	1 423.3	4 270.0
Jagüey barrio (pt.) -----	1 568	477	2.8	1.1	2.8	1.1	560.0	1 425.5	170.4	433.6
Lagunas barrio (pt.) -----	1 195	359	2.0	.8	2.0	.8	597.5	1 493.8	179.5	448.8
Mal Paso barrio -----	2 612	812	2.4	.9	2.4	.9	1 088.3	2 902.2	338.3	902.2
Luyándo comunidad (pt.) -----	380	111	.2	.1	.2	.1	1 900.0	3 800.0	555.0	1 110.0
Mamey barrio (pt.) -----	1 657	520	3.5	1.4	3.5	1.4	473.4	1 183.6	148.6	371.4
Mariás barrio (pt.) -----	1 498	486	3.2	1.2	3.2	1.2	468.1	1 248.3	151.9	405.0
Naranjo barrio (pt.) -----	2 383	742	4.3	1.6	4.3	1.6	554.2	1 489.4	172.6	463.8
Luyándo comunidad (pt.) -----	1 985	613	3.6	1.4	3.6	1.4	551.4	1 417.9	170.3	437.9
Piedras Blancas barrio -----	2 813	947	7.1	2.7	7.1	2.7	396.2	1 041.9	133.4	350.7
Aguada zona urbana (pt.) -----	150	66	.1	—	.1	—	1 500.0	—	660.0	—
Río Grande barrio (pt.) -----	611	205	.4	.2	.4	.2	1 527.5	3 055.0	512.5	1 025.0
Aguadilla Municipio (pt.) -----	55 347	19 271	63.4	24.5	59.2	22.9	934.9	2 416.9	325.5	841.5
Aguacate barrio (pt.) -----	913	333	3.2	1.2	3.2	1.2	285.3	760.8	104.1	277.5
Aguadilla barrio-pueblo (pt.) -----	5 311	2 403	1.9	.7	1.9	.7	5 901.1	13 277.5	2 670.0	6 007.5
Aguadilla zona urbana (pt.) -----	5 311	2 403	1.9	.7	1.9	.7	5 901.1	13 277.5	2 670.0	6 007.5
Arenales barrio (pt.) -----	341	133	.6	.2	.6	.2	568.3	1 705.0	221.7	665.0
Borinquen barrio (pt.) -----	8 072	2 632	11.8	4.6	8.6	3.3	938.6	2 446.1	306.0	797.6
Aguadilla zona urbana (pt.) -----	3 569	1 226	2.6	1.0	2.1	.8	1 699.5	4 461.3	583.8	1 532.5
Caimital Alto barrio (pt.) -----	2 540	876	6.0	2.3	6.0	2.3	423.3	1 104.3	146.0	380.9
Caimital Bajo barrio (pt.) -----	4 133	1 484	1.9	.7	1.9	.7	2 175.3	5 904.3	781.1	2 120.0
Aguadilla zona urbana (pt.) -----	3 821	1 387	1.3	.5	1.3	.5	2 939.2	7 642.0	1 066.9	2 774.0
Camacayas barrio -----	10 659	3 628	9.9	3.8	9.9	3.8	1 076.7	2 805.0	366.5	954.7
Aguadilla zona urbana (pt.) -----	3 759	1 242	1.2	.4	1.2	.4	3 132.5	9 397.5	1 035.0	3 105.0
Ceiba Alta barrio (pt.) -----	22	9	—	—	—	—	—	—	—	—
Ceiba Baja barrio (pt.) -----	1 143	387	2.4	.9	2.4	.9	476.3	1 270.0	161.3	430.0
Corrales barrio -----	7 994	2 640	6.2	2.4	6.2	2.4	1 289.4	3 330.8	425.8	1 100.0
Cabán comunidad -----	4 327	1 384	1.2	.5	1.2	.5	3 605.8	8 654.0	1 153.3	2 768.0
Guerrero barrio (pt.) -----	2 155	601	1.7	.7	1.7	.7	1 267.3	3 078.6	353.5	858.6
Rafael Hernández comunidad -----	1 374	469	.7	.3	.7	.3	1 962.9	4 580.0	670.0	1 563.3
Maleza Alta barrio (pt.) -----	1 440	519	4.8	1.9	4.8	1.9	300.0	757.9	108.1	273.2
Maleza Baja barrio (pt.) -----	2 978	919	5.2	2.0	5.2	2.0	572.7	1 489.0	176.7	459.5
Montaña barrio (pt.) -----	3 329	1 329	2.3	.9	2.3	.9	1 534.8	3 922.2	577.8	1 476.7
San Antonio comunidad -----	2 458	835	.8	.3	.8	.3	3 072.5	8 193.3	1 043.8	2 783.3
Palmar barrio (pt.) -----	1 696	590	2.6	1.0	2.6	1.0	652.3	1 696.0	226.9	590.0
Victoria barrio (pt.) -----	2 420	788	2.9	1.1	2.9	1.1	834.5	2 200.0	271.7	716.4
Aguadilla zona urbana (pt.) -----	1 887	624	1.3	.5	1.2	.5	1 572.5	3 774.0	520.0	1 248.0
Moca Municipio (pt.) -----	15 187	4 885	17.2	6.6	17.2	6.6	883.0	2 301.1	284.0	740.2
Aceitunas barrio (pt.) -----	2 114	634	1.7	.7	1.7	.7	1 243.5	3 020.0	372.9	905.7
Aceitunas comunidad -----	1 834	526	.7	.3	.7	.3	2 620.0	6 113.3	751.4	1 753.3
Centro barrio (pt.) -----	150	45	.4	.1	.4	.1	375.0	1 500.0	112.5	450.0
Cuchillas barrio (pt.) -----	3 697	1 193	5.1	2.0	5.1	2.0	724.9	1 848.5	233.9	596.5
Mariás barrio (pt.) -----	454	143	1.0	.4	1.0	.4	454.0	1 135.0	143.0	357.5
Moca barrio-pueblo -----	2 059	754	.8	.3	.8	.3	2 573.8	6 863.3	942.5	2 513.3
Moca zona urbana (pt.) -----	2 059	754	.8	.3	.8	.3	2 573.8	6 863.3	942.5	2 513.3
Naranjo barrio (pt.) -----	61	13	.1	—	.1	—	610.0	—	130.0	—
Pueblo barrio (pt.) -----	4 270	1 289	5.3	2.0	5.3	2.0	805.7	2 135.0	243.2	644.5
Moca zona urbana (pt.) -----	2 172	615	1.0	.4	1.0	.4	2 172.0	5 430.0	615.0	1 537.5
Rocha barrio (pt.) -----	432	148	.4	.2	.4	.2	1 080.0	2 160.0	370.0	740.0
Voladoras barrio (pt.) -----	1 950	666	2.4	.9	2.4	.9	812.5	2 166.7	277.5	740.0
Arecibo, PR										
The area -----	88 967	30 588	106.2	41.0	97.6	37.7	911.5	2 359.9	313.4	811.4
In central place -----	49 545	17 350	46.7	18.0	39.8	15.4	1 244.8	3 217.2	435.9	1 126.6
Arecibo zona urbana -----	49 545	17 350	46.7	18.0	39.8	15.4	1 244.8	3 217.2	435.9	1 126.6
Urban fringe -----	39 422	13 238	58.4	22.5	57.8	22.3	682.0	1 767.8	229.0	593.6
Arecibo Municipio (pt.) -----	51 578	18 037	48.9	18.9	42.0	16.2	1 228.0	3 183.8	429.5	1 113.4
Arecibo barrio-pueblo (pt.) -----	11 954	4 745	6.8	2.6	3.7	1.4	3 230.8	8 538.6	1 282.4	3 389.3
Arecibo zona urbana (pt.) -----	11 954	4 745	6.8	2.6	3.7	1.4	3 230.8	8 538.6	1 282.4	3 389.3
Cambalache barrio (pt.) -----	4	2	.4	.1	.3	.1	13.3	40.0	6.7	20.0
Arecibo zona urbana (pt.) -----	4	2	.4	.1	.3	.1	13.3	40.0	6.7	20.0
Dominguito barrio (pt.) -----	3 303	1 121	5.2	2.0	5.2	2.0	635.2	1 651.5	215.6	560.5
Arecibo zona urbana (pt.) -----	2 987	1 011	4.4	1.7	4.4	1.7	678.9	1 757.1	229.8	594.7
Hato Abajo barrio (pt.) -----	22 505	7 450	14.0	5.4	12.4	4.8	1 814.9	4 688.5	600.8	1 552.1
Arecibo zona urbana (pt.) -----	22 505	7 450	14.0	5.4	12.4	4.8	1 814.9	4 688.5	600.8	1 552.1
Hato Arriba barrio -----	7 185	2 407	12.5	4.8	12.5	4.8	574.8	1 496.9	192.6	501.5
Arecibo zona urbana (pt.) -----	7 185	2 407	12.5	4.8	12.5	4.8	574.8	1 496.9	192.6	501.5
Hato Viejo barrio (pt.) -----	842	272	.6	.2	.6	.2	1 403.4	4 210.0	453.3	1 360.0
Islote barrio (pt.) -----	2 576	939	4.7	1.8	2.5	1.0	1 030.3	2 576.0	375.6	939.0
Arecibo zona urbana (pt.) -----	2 576	939	4.7	1.8	2.5	1.0	1 030.3	2 576.0	375.6	939.0
Tanamá barrio (pt.) -----	3 209	1 101	4.8	1.9	4.8	1.8	668.5	1 782.8	229.4	611.7
Arecibo zona urbana (pt.) -----	2 334	796	4.0	1.5	3.9	1.5	598.5	1 556.0	204.1	530.7

Table 23. Population, Housing Units, and Land Area for Urbanized Area: 1990—Con.

[Density is computed using land area. For definitions of terms and meanings of symbols, see text]

Urbanized Area	Population		Housing units		Area measurements				Density			
					Total area		Land area		Population per—		Housing units per—	
					Square kilo- meters	Square miles	Square kilo- meters	Square miles	Square kilo- meter	Square mile	Square kilo- meter	Square mile
Caguas, PR—Con.												
San Lorenzo Municipio (pt.)-----	20 763	6 800	22.6	8.7	22.5	8.7	922.8	2 386.6	302.2	781.6		
Cayaguas barrio (pt.)-----	259	84	.6	.2	.6	.2	431.7	1 295.0	140.0	420.0		
Cerro Gordo barrio (pt.)-----	1 230	365	.7	.3	.7	.3	1 757.1	4 100.0	521.4	1 216.7		
San Lorenzo zona urbana (pt.)-----	1 230	365	.7	.3	.7	.3	1 757.1	4 100.0	521.4	1 216.7		
Florida barrio (pt.)-----	4 679	1 450	5.7	2.2	5.6	2.2	835.5	2 126.8	258.9	659.1		
San Lorenzo zona urbana (pt.)-----	—	—	—	—	—	—	—	—	—	—		
Hato barrio-----	6 500	2 037	7.9	3.0	7.8	3.0	833.3	2 166.7	261.2	679.0		
San Lorenzo zona urbana (pt.)-----	3 593	1 132	1.5	.6	1.5	.6	2 395.3	5 988.3	754.7	1 886.7		
Jagual barrio-----	2 306	655	2.9	1.1	2.9	1.1	795.2	2 098.4	225.9	595.5		
Jagual comunidad-----	1 061	299	.6	.2	.6	.2	1 768.3	5 305.0	498.3	1 495.0		
Quebrada barrio (pt.)-----	250	78	.4	.1	.4	.1	625.0	2 500.0	195.0	780.0		
San Lorenzo zona urbana (pt.)-----	—	—	—	—	—	—	—	—	—	—		
Quebrada Honda barrio (pt.)-----	445	150	.7	.3	.7	.3	635.7	1 483.3	214.3	500.0		
Quemados barrio (pt.)-----	2 607	880	3.3	1.3	3.3	1.3	790.0	2 005.4	266.7	676.9		
San Lorenzo zona urbana (pt.)-----	1 171	383	.4	.1	.4	.1	2 927.5	11 710.0	957.5	3 830.0		
San Lorenzo barrio-pueblo-----	2 487	1 101	.6	.2	.6	.2	4 145.0	12 435.0	1 835.0	5 505.0		
San Lorenzo zona urbana (pt.)-----	2 487	1 101	.6	.2	.6	.2	4 145.0	12 435.0	1 835.0	5 505.0		
Cayey, PR												
The area-----												
In central place-----	53 945	17 187	39.2	15.1	39.2	15.1	1 376.1	3 572.5	438.4	1 138.2		
Cayey zona urbana-----	23 332	7 950	6.8	2.6	6.8	2.6	3 431.2	8 973.8	1 169.1	3 057.7		
Urban fringe-----	30 613	9 237	32.4	12.5	32.3	12.5	947.8	2 449.0	286.0	739.0		
Aibonito Municipio (pt.)-----	1 038	319	2.1	.8	2.1	.8	494.3	1 297.5	151.9	398.8		
Plata barrio (pt.)-----	1 038	319	2.1	.8	2.1	.8	494.3	1 297.5	151.9	398.8		
Cayey Municipio (pt.)-----	34 059	11 280	18.3	7.1	18.3	7.1	1 861.1	4 797.0	616.4	1 588.7		
Cayey barrio-pueblo (pt.)-----	18 951	6 492	4.0	1.6	4.0	1.6	4 737.8	11 844.4	1 623.0	4 057.5		
Cayey zona urbana (pt.)-----	18 951	6 492	4.0	1.6	4.0	1.6	4 737.8	11 844.4	1 623.0	4 057.5		
Matón Abajo barrio (pt.)-----	306	95	.4	.1	.4	.1	765.0	3 060.0	237.5	950.0		
Matón Arriba barrio (pt.)-----	7	2	—	—	—	—	—	—	—	—		
Cayey zona urbana (pt.)-----	—	—	—	—	—	—	—	—	—	—		
Monte Llano barrio (pt.)-----	2 805	857	1.9	.7	1.9	.7	1 476.3	4 007.1	451.1	1 224.3		
Cayey zona urbana (pt.)-----	2 042	623	.8	.3	.8	.3	2 552.5	6 806.7	778.8	2 076.7		
Quebrada Arriba barrio (pt.)-----	736	238	.9	.3	.9	.3	817.8	2 453.3	264.4	793.3		
Rincón barrio (pt.)-----	3 856	1 178	2.3	.9	2.3	.9	1 676.5	4 284.4	512.2	1 308.9		
Cayey zona urbana (pt.)-----	83	40	.6	.2	.6	.2	138.3	415.0	66.7	200.0		
Toita barrio (pt.)-----	5 655	1 869	6.4	2.5	6.4	2.5	883.6	2 262.0	292.0	747.6		
Cayey zona urbana (pt.)-----	2 256	795	1.4	.6	1.4	.6	1 611.4	3 760.0	567.9	1 325.0		
Vegas barrio (pt.)-----	1 743	549	2.4	.9	2.4	.9	726.3	1 936.7	228.8	610.0		
G. L. García comunidad-----	1 703	537	2.0	.8	2.0	.8	851.5	2 128.8	268.5	671.3		
Cidra Municipio (pt.)-----	18 848	5 588	18.8	7.2	18.7	7.2	1 007.9	2 617.8	298.8	776.1		
Arenas barrio (pt.)-----	4 797	1 419	3.4	1.3	3.4	1.3	1 410.9	3 690.0	417.4	1 091.5		
Cidra zona urbana (pt.)-----	869	255	.3	.1	.3	.1	2 896.7	8 690.0	850.0	2 550.0		
Bayamón barrio (pt.)-----	2 199	612	3.1	1.2	3.1	1.2	709.4	1 832.5	197.4	510.0		
Cidra zona urbana (pt.)-----	997	281	.8	.3	.8	.3	1 246.3	3 323.3	351.3	936.7		
Ceiba barrio (pt.)-----	736	250	.4	.1	.4	.1	1 840.0	7 360.0	625.0	2 500.0		
Cidra zona urbana (pt.)-----	736	250	.4	.1	.4	.1	1 840.0	7 360.0	625.0	2 500.0		
Cidra barrio-pueblo-----	1 428	535	.3	.1	.3	.1	4 760.0	14 280.0	1 783.3	5 350.0		
Cidra zona urbana (pt.)-----	1 428	535	.3	.1	.3	.1	4 760.0	14 280.0	1 783.3	5 350.0		
Honduras barrio (pt.)-----	506	149	.5	.2	.5	.2	1 012.0	2 530.0	298.0	745.0		
Rabanal barrio (pt.)-----	2 666	740	3.4	1.3	3.4	1.3	784.1	2 050.8	217.6	569.2		
Cidra zona urbana (pt.)-----	44	14	.1	—	.1	—	440.0	—	140.0	—		
Parcelas La Milagrosa comunidad-----	1 161	322	.7	.3	.7	.3	1 658.6	3 870.0	460.0	1 073.3		
Rincón barrio (pt.)-----	2 814	863	3.5	1.4	3.5	1.4	804.0	2 010.0	246.6	616.4		
Parcelas Nuevas comunidad-----	1 279	417	1.7	.6	1.7	.6	752.4	2 131.7	245.3	695.0		
Río Abajo barrio (pt.)-----	68	21	.1	—	.1	—	680.0	—	210.0	—		
Cidra zona urbana (pt.)-----	—	—	—	—	—	—	—	—	—	—		
Sud barrio (pt.)-----	3 455	948	3.9	1.5	3.9	1.5	885.9	2 303.3	243.1	632.0		
Cidra zona urbana (pt.)-----	1 506	410	.4	.2	.4	.2	3 765.0	7 530.0	1 025.0	2 050.0		
Toita barrio (pt.)-----	179	51	.1	—	.1	—	1 790.0	—	510.0	—		
Humacao, PR												
The area-----												
In central place-----	21 306	6 952	12.5	4.8	12.4	4.8	1 718.2	4 438.8	560.6	1 448.3		
Humacao zona urbana-----	21 306	6 952	12.5	4.8	12.4	4.8	1 718.2	4 438.8	560.6	1 448.3		
Urban fringe-----	35 838	11 153	45.6	17.6	45.6	17.6	785.9	2 036.3	244.6	633.7		
Humacao Municipio (pt.)-----	39 876	12 613	38.9	15.0	38.8	15.0	1 027.7	2 658.4	325.1	840.9		
Antón Ruíz barrio (pt.)-----	3 231	984	3.2	1.2	3.2	1.2	1 009.7	2 692.5	307.5	820.0		
Antón Ruíz comunidad-----	1 859	552	1.2	.4	1.2	.4	1 549.2	4 647.5	460.0	1 380.0		
Bajandas comunidad (pt.)-----	871	280	.8	.3	.8	.3	1 088.8	2 903.3	350.0	933.3		
Buena Vista barrio (pt.)-----	—	—	.2	.1	.2	.1	—	—	—	—		
Humacao zona urbana (pt.)-----	—	—	—	—	—	—	—	—	—	—		
Candelero Arriba barrio (pt.)-----	3 094	920	2.5	1.0	2.5	1.0	1 237.6	3 094.0	368.0	920.0		
Candelero Arriba comunidad-----	1 491	447	1.0	.4	1.0	.4	1 491.0	3 727.5	447.0	1 117.5		
Cataño barrio (pt.)-----	1 392	460	2.0	.8	2.0	.8	696.0	1 740.0	230.0	575.0		
Humacao zona urbana (pt.)-----	1 010	334	.4	.2	.4	.2	2 525.0	5 050.0	835.0	1 670.0		
Collores barrio (pt.)-----	1 689	515	3.5	1.3	3.5	1.3	482.6	1 299.2	147.1	396.2		
Humacao barrio-pueblo-----	5 551	1 998	1.7	.6	1.7	.6	3 265.3	9 251.7	1 175.3	3 330.0		
Humacao zona urbana (pt.)-----	5 551	1 998	1.7	.6	1.7	.6	3 265.3	9 251.7	1 175.3	3 330.0		
Mabú barrio (pt.)-----	8 004	2 556	7.0	2.7	7.0	2.7	1 143.4	2 964.4	365.1	946.7		
Humacao zona urbana (pt.)-----	5 787	1 846	4.4	1.7	4.4	1.7	3 152.2	3 404.1	419.5	1 085.9		
La Fermana comunidad (pt.)-----	1 434	434	1.4	.5	1.4	.5	1 024.3	2 868.0	310.0	868.0		
Mambiche barrio (pt.)-----	1 661	519	1.8	.7	1.8	.7	922.8	2 372.9	288.3	741.4		
Mariana barrio (pt.)-----	2 159	642	4.3	1.7	4.3	1.7	502.1	1 270.0	149.3	377.6		
Río Abajo barrio (pt.)-----	5 713	1 783	6.3	2.5	6.5	2.5	878.9	2 285.2	274.3	713.2		
Bajandas comunidad (pt.)-----	679	211	.9	.3	.9	.3	754.4	2 263.3	234.4	703.3		
Humacao zona urbana (pt.)-----	4 802	1 502	4.7	1.8	4.7	1.8	1 217.7	2 687.8	319.6	834.4		
Tejas barrio (pt.)-----	7 382	2 236	6.1	2.4	6.1	2.4	1 210.2	3 075.8	366.6	931.7		
Humacao zona urbana (pt.)-----	4 156	1 272	1.3	.5	1.3	.5	3 196.9	8 312.0	978.5	2 544.0		

Table 23. **Population, Housing Units, and Land Area for Urbanized Area: 1990** —Con.

[Density is computed using land area. For definitions of terms and meanings of symbols, see text]

Urbanized Area	Population Housing units		Area measurements				Density			
			Total area		Land area		Population per—		Housing units per—	
			Square kilo- meters	Square miles	Square kilo- meters	Square miles	Square kilo- meter	Square mile	Square kilo- meter	Square mile
Humacao, PR—Con.										
Las Piedras Municipio (pt.)	15 706	5 001	17.1	6.6	17.1	6.6	918.5	2 379.7	292.5	757.7
Collores barrio (pt.)	2 989	943	3.1	1.2	3.1	1.2	964.2	2 490.8	304.2	785.8
La Fermína comunidad (pt.)	1 091	341	1.1	.4	1.1	.4	991.8	2 727.5	310.0	852.5
Las Piedras zona urbana (pt.)	212	72	.2	.1	.2	.1	1 060.0	2 120.0	360.0	720.0
Las Piedras barrio-pueblo	2 087	819	.5	.2	.5	.2	4 174.0	10 435.0	1 638.0	4 095.0
Las Piedras zona urbana (pt.)	2 087	819	.5	.2	.5	.2	4 174.0	10 435.0	1 638.0	4 095.0
Montones barrio (pt.)	2 385	711	3.6	1.4	3.6	1.4	662.5	1 703.6	197.5	507.9
Quebrada Arenas barrio (pt.)	1 688	523	1.8	.7	1.8	.7	937.8	2 411.4	290.6	747.1
Las Piedras zona urbana (pt.)	713	210	.6	.2	.6	.2	1 188.3	3 565.0	350.0	1 050.0
Tejas barrio (pt.)	6 557	2 005	8.1	3.1	8.1	3.1	809.5	2 115.2	247.5	646.8
Las Piedras zona urbana (pt.)	3 183	953	1.7	.7	1.7	.7	1 872.4	4 547.1	560.6	1 361.4
Naguabo Municipio (pt.)	1 346	438	2.0	.8	2.0	.8	673.0	1 682.5	219.0	547.5
Río Blanco barrio (pt.)	1 346	438	2.0	.8	2.0	.8	673.0	1 682.5	219.0	547.5
Río Blanco comunidad	1 341	437	2.0	.8	2.0	.8	670.5	1 676.3	218.5	546.3
Yabucoa Municipio (pt.)	216	53	.2	.1	.2	.1	1 080.0	2 160.0	265.0	530.0
Aguacate barrio (pt.)	216	53	.2	.1	.2	.1	1 080.0	2 160.0	265.0	530.0
Mayagüez, PR										
The area	110 904	39 574	100.4	38.8	94.6	36.5	1 172.3	3 038.5	418.3	1 084.2
In central place	83 010	29 692	60.0	23.2	54.2	20.9	1 531.5	3 971.8	547.8	1 420.7
Mayagüez zona urbana	83 010	29 692	60.0	23.2	54.2	20.9	1 531.5	3 971.8	547.8	1 420.7
Urban fringe	27 894	9 882	40.4	15.6	40.4	15.6	690.4	1 788.1	244.6	633.5
Añasco Municipio (pt.)	1 149	403	2.3	.9	2.3	.9	499.6	1 276.7	175.2	447.8
Ovejas barrio (pt.)	1 149	403	2.3	.9	2.3	.9	499.6	1 276.7	175.2	447.8
Cabo Rojo Municipio (pt.)	1 327	752	1.8	.7	1.8	.7	737.2	1 895.7	417.8	1 074.3
Guanajibo barrio (pt.)	1 327	752	1.8	.7	1.8	.7	737.2	1 895.7	417.8	1 074.3
Hormigueros Municipio (pt.)	15 043	5 211	16.3	6.3	16.3	6.3	922.9	2 387.8	319.7	827.1
Benavente barrio (pt.)	5	1	.1	—	.1	—	50.0	—	10.0	—
Guanajibo barrio (pt.)	6 233	2 153	4.6	1.8	4.6	1.8	1 355.0	3 462.8	468.0	1 196.1
Hormigueros zona urbana (pt.)	6 233	2 153	4.5	1.7	4.5	1.7	1 381.3	3 666.5	478.4	1 266.5
Hormigueros barrio (pt.)	3 293	1 051	3.3	1.3	3.3	1.3	997.9	2 533.1	318.5	808.5
Hormigueros barrio-pueblo	1 056	426	.5	.2	.5	.2	2 112.0	5 280.0	852.0	2 130.0
Hormigueros zona urbana (pt.)	3 293	1 051	3.3	1.3	3.3	1.3	997.9	2 533.1	318.5	808.5
Hormigueros zona urbana (pt.)	1 056	426	.5	.2	.5	.2	2 112.0	5 280.0	852.0	2 130.0
Jaguitas barrio (pt.)	1 517	530	3.7	1.4	3.7	1.4	410.0	1 083.6	143.2	378.6
Hormigueros zona urbana (pt.)	518	203	1.2	.5	1.2	.5	431.7	1 036.0	169.2	406.0
Lavadero barrio (pt.)	2 939	1 050	4.2	1.6	4.2	1.6	699.8	1 836.9	250.0	656.3
Hormigueros zona urbana (pt.)	2 485	898	3.4	1.3	3.4	1.3	730.9	1 911.5	264.1	690.8
Mayagüez Municipio (pt.)	92 329	32 858	78.0	30.1	72.3	27.9	1 277.0	3 309.3	454.5	1 177.7
Algarrobo barrio (pt.)	5 074	1 649	6.3	2.4	6.3	2.4	1 180.0	2 984.7	383.5	970.0
Mayagüez zona urbana (pt.)	5 074	1 649	6.3	2.4	6.3	2.4	1 180.0	2 984.7	383.5	970.0
Bateyes barrio (pt.)	610	263	1.3	.5	1.3	.5	469.2	1 220.0	202.3	526.0
Guanajibo barrio (pt.)	7 862	2 619	10.9	4.2	9.2	3.5	854.6	2 246.3	284.7	748.3
Mayagüez zona urbana (pt.)	7 862	2 619	10.9	4.2	9.2	3.5	854.6	2 246.3	284.7	748.3
Juan Alonso barrio (pt.)	1 228	386	5.0	1.9	5.0	1.9	245.6	646.3	77.2	203.2
Mayagüez zona urbana (pt.)	876	329	4.1	1.6	4.1	1.6	213.7	547.5	80.2	205.6
Leguisamo barrio (pt.)	701	228	1.6	.6	1.6	.6	438.1	1 168.3	142.5	380.0
Limón barrio (pt.)	560	170	1.3	.5	1.3	.5	430.8	1 120.0	130.8	340.0
Malezas barrio (pt.)	484	170	1.1	.4	1.1	.4	440.0	1 210.0	154.5	425.0
Mayagüez barrio-pueblo (pt.)	35 279	13 827	8.2	3.2	7.1	2.7	4 968.9	13 066.3	1 947.5	5 121.1
Mayagüez zona urbana (pt.)	35 279	13 827	8.2	3.2	7.1	2.7	4 968.9	13 066.3	1 947.5	5 121.1
Mayagüez Arriba barrio	5 905	1 976	6.6	2.6	6.6	2.6	894.7	2 271.2	299.4	760.0
Mayagüez zona urbana (pt.)	5 435	1 825	5.0	1.9	5.0	1.9	1 087.0	2 860.5	365.0	960.5
Miradero barrio	5 279	1 859	7.6	2.9	7.6	2.9	694.6	1 820.3	244.6	641.0
Mayagüez zona urbana (pt.)	5 279	1 859	7.6	2.9	7.6	2.9	694.6	1 820.3	244.6	641.0
Quebrada Grande barrio	5 882	2 078	6.4	2.5	6.4	2.5	919.1	2 352.8	324.7	831.2
Mayagüez zona urbana (pt.)	4 796	1 730	5.0	1.9	5.0	1.9	959.2	2 524.2	346.0	910.5
Quemado barrio (pt.)	2 881	1 023	5.0	1.9	5.0	1.9	576.2	1 516.3	204.6	538.4
Río Cañas Abajo barrio (pt.)	1 363	456	3.5	1.4	3.5	1.4	389.4	973.6	130.3	325.7
Mayagüez zona urbana (pt.)	1 324	442	3.4	1.3	3.4	1.3	389.4	1 018.5	130.0	340.0
Río Hondo barrio (pt.)	3 195	1 011	3.2	1.2	3.2	1.2	998.4	2 662.5	315.9	842.5
Mayagüez zona urbana (pt.)	2 743	857	1.4	.5	1.4	.5	1 959.3	5 486.0	612.1	1 714.0
Rosario barrio (pt.)	1 007	333	1.5	.6	1.5	.6	671.3	1 678.3	222.0	555.0
Sábalos barrio	11 683	3 702	5.0	1.9	4.7	1.8	2 485.7	6 490.6	787.7	2 056.7
Mayagüez zona urbana (pt.)	11 683	3 702	5.0	1.9	4.7	1.8	2 485.7	6 490.6	787.7	2 056.7
Sabanetas barrio (pt.)	3 336	1 108	3.6	1.4	3.0	1.2	1 112.0	2 780.0	369.3	923.3
Mayagüez zona urbana (pt.)	2 659	853	3.1	1.2	2.5	1.0	1 063.6	2 659.0	341.2	853.0
San Germán Municipio (pt.)	1 056	350	1.9	.7	1.9	.7	555.8	1 508.6	184.2	500.0
Duey Bajo barrio (pt.)	282	83	.8	.3	.8	.3	352.5	940.0	103.8	276.7
Rosario Bajo barrio (pt.)	774	267	1.2	.5	1.2	.5	645.0	1 548.0	222.5	534.0
Ponce, PR										
The area	190 079	60 573	147.6	57.0	108.5	41.9	1 751.9	4 536.5	558.3	1 445.7
In central place	159 151	51 742	115.6	44.6	76.6	29.6	2 077.7	5 376.7	675.5	1 748.0
Ponce zona urbana	159 151	51 742	115.6	44.6	76.6	29.6	2 077.7	5 376.7	675.5	1 748.0
Urban fringe	30 928	8 831	32.0	12.4	31.9	12.3	969.5	2 514.5	276.8	718.0
Peñuelas Municipio (pt.)	14 880	4 233	9.5	3.7	9.5	3.7	1 566.3	4 021.6	445.6	1 144.1
Coto barrio (pt.)	550	166	.5	.2	.5	.2	1 100.0	2 750.0	332.0	830.0
Peñuelas zona urbana (pt.)	493	148	.5	.2	.5	.2	986.0	2 465.0	296.0	740.0
Cuebas barrio (pt.)	100	32	.1	—	.1	—	1 000.0	—	320.0	—
Jaguas barrio (pt.)	1 089	299	.6	.2	.6	.2	1 815.0	5 445.0	498.3	1 495.0
Peñuelas zona urbana (pt.)	923	244	.3	.1	.3	.1	3 076.7	9 230.0	813.3	2 440.0
Peñuelas barrio-pueblo	1 823	634	.6	.2	.6	.2	3 038.3	9 115.0	1 056.7	3 170.0
Peñuelas zona urbana (pt.)	1 823	634	.6	.2	.6	.2	3 038.3	9 115.0	1 056.7	3 170.0
Quebrada Ceiba barrio (pt.)	3 961	1 077	1.3	.5	1.3	.5	3 046.9	7 922.0	828.5	2 154.0
Peñuelas zona urbana (pt.)	2 679	748	1.1	.4	1.1	.4	2 435.5	6 697.5	680.0	1 870.0
Tallaboa Alta comunidad (pt.)	1 257	324	.2	.1	.2	.1	6 285.0	12 570.0	1 620.0	3 240.0
Santo Domingo barrio (pt.)	5 024	1 342	4.0	1.5	4.0	1.5	1 256.0	3 349.3	335.5	894.7
Santo Domingo comunidad	2 691	725	2.8	1.1	2.8	1.1	961.1	2 446.4	258.9	659.1
Tallaboa Alta barrio (pt.)	2 333	683	2.4	.9	2.4	.9	972.1	2 592.2	284.6	758.9
Tallaboa Alta comunidad (pt.)	1 142	366	.8	.3	.8	.3	1 427.5	3 806.7	457.5	1 220.0

Table 23. Population, Housing Units, and Land Area for Urbanized Area: 1990—Con.

[Density is computed using land area. For definitions of terms and meanings of symbols, see text]

Urbanized Area	Population		Housing units		Area measurements				Density			
					Total area		Land area		Population per—		Housing units per—	
					Square kilo- meters	Square miles	Square kilo- meters	Square miles	Square kilo- meter	Square mile	Square kilo- meter	Square mile
San Juan, PR—Con.												
San Juan Municipio (pt.)—Con.												
Sabana Llana Sur barrio	43 716	14 947	10.9	4.2	10.9	4.2	4 010.6	10 408.6	1 371.3	3 558.8		
San Juan zona urbana (pt.)	43 716	14 947	10.9	4.2	10.9	4.2	4 010.6	10 408.6	1 371.3	3 558.8		
San Juan Antiguo barrio (pt.)	9 696	4 691	6.8	2.6	2.6	1.0	3 729.2	9 696.0	1 804.2	4 691.0		
San Juan zona urbana (pt.)	9 696	4 691	6.8	2.6	2.6	1.0	3 729.2	9 696.0	1 804.2	4 691.0		
Santurce barrio	95 184	43 193	22.5	8.7	13.5	5.2	7 050.7	18 304.6	3 199.5	8 306.3		
San Juan zona urbana (pt.)	95 184	43 193	22.5	8.7	13.5	5.2	7 050.7	18 304.6	3 199.5	8 306.3		
Tortugo barrio	3 877	1 247	2.2	.9	2.2	.9	1 762.3	4 307.8	566.8	1 385.6		
San Juan zona urbana (pt.)	3 877	1 247	2.2	.9	2.2	.9	1 762.3	4 307.8	566.8	1 385.6		
Universidad barrio	2 558	987	1.6	.6	1.6	.6	1 598.8	4 263.3	616.9	1 645.0		
San Juan zona urbana (pt.)	2 558	987	1.6	.6	1.6	.6	1 598.8	4 263.3	616.9	1 645.0		
Toa Alta Municipio (pt.)												
Contorno barrio (pt.)	5 254	1 565	4.8	1.8	4.7	1.8	1 117.9	2 918.9	333.0	869.4		
Galateo comunidad (pt.)	32	9	—	—	—	—	—	—	—	—		
Toa Alta zona urbana (pt.)	4 165	1 197	1.5	.6	1.5	.6	2 776.7	6 941.7	798.0	1 995.0		
Galateo barrio (pt.)	4 102	1 173	4.4	1.7	4.4	1.7	932.3	2 412.9	266.6	690.0		
Galateo comunidad (pt.)	2 443	696	1.6	.6	1.6	.6	1 526.9	4 071.7	435.0	1 160.0		
H. Rivera Colón comunidad (pt.)	76	20	.2	.1	.2	.1	380.0	760.0	100.0	200.0		
Mucarabones barrio (pt.)	8 705	2 712	7.1	2.8	7.1	2.7	1 226.1	3 224.1	382.0	1 004.4		
Mucarabones comunidad	1 670	497	1.2	.5	1.2	.5	1 391.7	3 340.0	414.2	994.0		
Pájaros comunidad (pt.)	1 378	405	.8	.3	.8	.3	1 722.5	4 593.3	506.3	1 350.0		
Toa Alta zona urbana (pt.)	—	—	—	—	—	—	—	—	—	—		
Ortiz barrio (pt.)	14 869	4 355	9.1	3.5	9.1	3.5	1 634.0	4 248.3	478.6	1 244.3		
Pájaros comunidad (pt.)	5 499	1 582	3.2	1.2	3.2	1.2	1 718.4	4 582.5	494.4	1 318.3		
Piñas barrio (pt.)	1 056	319	1.0	.4	1.0	.4	546.0	1 365.0	163.0	407.5		
Quebrada Arenas barrio (pt.)	1 840	552	2.4	.9	2.4	.9	766.7	2 044.4	230.0	613.3		
H. Rivera Colón comunidad (pt.)	1 180	344	1.1	.4	1.1	.4	1 072.7	2 950.0	312.7	860.0		
Quebrada Cruz barrio (pt.)	2 917	896	4.1	1.6	4.1	1.6	711.5	1 823.1	218.5	560.0		
H. Rivera Colón comunidad (pt.)	768	220	.5	.2	.5	.2	1 536.0	3 840.0	440.0	1 100.0		
Toa Alta barrio-pueblo	776	310	.1	—	.1	—	7 760.0	—	3 100.0	—		
Toa Alta zona urbana (pt.)	776	310	.1	—	.1	—	7 760.0	—	3 100.0	—		
Toa Baja Municipio (pt.)												
Candelaria barrio (pt.)	23 915	7 272	12.3	4.7	12.3	4.7	1 944.3	5 088.3	591.2	1 547.2		
Candelaria comunidad	16 603	5 029	8.0	3.1	8.0	3.1	2 075.4	5 355.8	628.6	1 622.3		
Candelaria Arenas comunidad (pt.)	5 712	1 727	2.9	1.1	2.9	1.1	1 969.7	5 192.7	595.5	1 570.0		
Sabana Seca comunidad (pt.)	1 301	403	.4	.2	.4	.2	752.5	1 505.0	257.5	515.0		
Media Luna barrio (pt.)	9 886	3 085	5.9	2.3	5.9	2.3	1 675.6	4 298.3	522.9	1 341.3		
Campanilla comunidad	6 681	2 130	1.6	.6	1.6	.6	4 175.6	11 135.0	1 331.3	3 550.0		
Candelaria Arenas comunidad (pt.)	—	—	—	—	—	—	—	—	—	—		
San José comunidad	3 076	923	2.9	1.1	2.9	1.1	1 060.7	2 796.4	318.3	839.1		
Palo Seco barrio (pt.)	385	157	1.3	.5	1.3	.5	296.2	770.0	120.8	314.0		
Sabana Seca barrio (pt.)	52 167	16 531	17.4	6.7	16.6	6.4	3 142.6	8 151.1	995.8	2 583.0		
Candelaria Arenas comunidad (pt.)	—	—	—	—	—	—	—	—	—	—		
Ingenio comunidad	5 111	1 596	2.0	.8	2.0	.8	2 555.5	6 388.8	798.0	1 995.0		
Levittown comunidad	30 807	10 078	6.7	2.6	5.9	2.3	5 221.5	13 394.3	1 708.1	4 381.7		
Sabana Seca comunidad (pt.)	6 454	1 942	3.0	1.2	3.0	1.2	2 151.3	5 378.3	647.3	1 618.3		
Trujillo Alto Municipio (pt.)												
Carraizo barrio (pt.)	14 298	4 330	9.0	3.5	9.0	3.5	1 588.7	4 085.1	481.1	1 237.1		
Trujillo Alto zona urbana (pt.)	11 383	3 407	5.2	2.0	5.1	2.0	2 232.0	5 691.5	668.0	1 703.5		
Cuevas barrio	30 597	9 874	11.1	4.3	11.0	4.3	2 781.5	7 115.6	897.6	2 296.3		
Trujillo Alto zona urbana (pt.)	30 351	9 797	10.0	3.9	10.0	3.8	3 035.1	7 987.1	979.7	2 578.2		
Dos Bocas barrio (pt.)	1 814	567	2.4	.9	2.4	.9	3 555.8	2 015.6	236.3	630.0		
Trujillo Alto zona urbana (pt.)	1 197	386	.5	.2	.5	.2	2 394.0	5 985.0	772.0	1 930.0		
La Gloria barrio (pt.)	4 055	1 304	5.5	2.1	5.5	2.1	737.3	1 931.0	237.1	621.0		
Trujillo Alto zona urbana (pt.)	421	133	.4	.1	.4	.1	1 403.3	4 210.4	443.3	1 330.0		
Quebrada Grande barrio (pt.)	1 704	516	2.5	1.0	2.5	1.0	681.6	1 704.0	206.4	516.0		
Quebrada Negrillo barrio (pt.)	4 424	1 351	4.6	1.8	4.6	1.8	961.7	2 457.8	293.7	750.6		
Trujillo Alto barrio-pueblo	984	329	.4	.1	.4	.1	3 280.0	9 840.0	1 096.7	3 290.0		
Trujillo Alto zona urbana (pt.)	984	329	.4	.1	.4	.1	3 280.0	9 840.0	1 096.7	3 290.0		
Vega Baja—Manatí, PR												
The area	112 272	36 566	96.1	37.1	95.9	37.0	1 170.7	3 034.4	381.3	988.3		
In central place	44 105	14 947	21.2	8.2	21.2	8.2	2 080.4	5 378.7	705.0	1 822.8		
Manatí zona urbana	16 352	5 967	5.5	2.1	5.5	2.1	2 973.1	7 786.7	1 084.9	2 841.4		
Vega Baja zona urbana	27 753	8 980	15.7	6.1	15.7	6.1	1 767.7	4 548.7	572.0	1 472.1		
Urban fringe	68 167	21 619	74.9	28.9	74.8	28.9	911.3	2 357.7	289.0	748.1		
Dorado Municipio (pt.)												
Espinosa barrio (pt.)	1 219	422	.8	.3	.8	.3	1 523.8	4 063.3	527.5	1 406.7		
Higuillar barrio (pt.)	8 243	2 555	9.0	3.5	9.0	3.5	915.9	2 355.1	283.9	730.0		
San Antonio comunidad	5 875	1 775	4.9	1.9	4.9	1.9	1 199.0	3 092.1	362.2	934.2		
Maguayo barrio (pt.)	680	220	.5	.2	.5	.2	1 360.0	3 400.0	440.0	1 100.0		
Manatí Municipio (pt.)												
Bajura Afuera barrio (pt.)	409	159	.5	.2	.5	.2	818.0	2 045.0	318.0	795.0		
Manatí zona urbana (pt.)	312	129	.4	.2	.4	.2	780.0	1 560.0	322.5	645.0		
Coto Norte barrio (pt.)	8 792	2 786	6.3	2.4	6.3	2.4	1 395.6	3 663.3	442.2	1 160.8		
Coto Norte comunidad (pt.)	1 176	393	.4	.2	.4	.2	2 940.0	5 880.0	982.5	1 965.0		
Manatí zona urbana (pt.)	3 956	1 244	1.9	.7	1.9	.7	2 082.1	5 651.4	654.7	1 777.1		
Coto Sur barrio (pt.)	6 448	2 102	4.9	1.9	4.9	1.9	1 315.9	3 393.7	429.0	1 106.3		
Manatí zona urbana (pt.)	4 370	1 483	1.2	.5	1.2	.5	3 641.7	8 740.0	1 235.8	2 966.0		
Manatí barrio-pueblo	7 712	3 109	2.0	.8	2.0	.8	3 856.0	9 640.0	1 554.5	3 886.3		
Manatí zona urbana (pt.)	7 712	3 109	2.0	.8	2.0	.8	3 856.0	9 640.0	1 554.5	3 886.3		
Tierras Nuevas Poniente barrio (pt.)	2 448	779	2.5	1.0	2.5	1.0	979.2	2 448.0	311.6	779.0		
La Luisa comunidad	2 448	779	2.5	1.0	2.5	1.0	979.2	2 448.0	311.6	779.0		
Tierras Nuevas Saliente barrio (pt.)	1 483	520	2.8	1.1	2.8	1.1	529.6	1 348.2	185.7	472.7		
Manatí zona urbana (pt.)	2	2	—	—	—	—	—	—	—	—		
Vega Alta Municipio (pt.)												
Bajura barrio (pt.)	3 760	1 165	5.3	2.0	5.3	2.0	709.4	1 880.0	219.8	582.5		
Vega Alta zona urbana (pt.)	1 361	414	.8	.3	.8	.3	1 701.3	4 536.7	517.5	1 380.0		
Candelaria barrio (pt.)	961	319	.5	.2	.5	.2	1 922.0	4 805.0	638.0	1 595.0		
Espinosa barrio (pt.)	11 838	3 559	6.6	2.5	6.6	2.5	1 793.6	4 735.2	539.2	1 423.6		
Vega Alta zona urbana (pt.)	8 107	2 418	3.3	1.3	3.3	1.3	2 456.7	6 236.2	732.7	1 860.0		
Maricao barrio (pt.)	2 895	923	5.8	2.2	5.8	2.2	499.1	1 315.9	159.1	419.5		
Vega Alta zona urbana (pt.)	233	83	.1	.1	.1	.1	2 330.0	2 330.0	830.0	830.0		

Table 23. Population, Housing Units, and Land Area for Urbanized Area: 1990—Con.

[Density is computed using land area. For definitions of terms and meanings of symbols, see text]

Urbanized Area	Population Housing units		Area measurements				Density				
			Total area		Land area		Population per—		Housing units per—		
			Square kilo- meters	Square miles	Square kilo- meters	Square miles	Square kilo- meter	Square mile	Square kilo- meter	Square mile	
Vega Baja--Manatí, PR—Con.											
Vega Alta Municipio (pt.)—Con.											
Sabana barrio (pt.) -----	9 676	3 207	11.1	4.3	11.1	4.3	871.7	2 250.2	288.9	745.8	
Breñas comunidad -----	2 060	641	2.6	1.0	2.6	1.0	792.3	2 060.0	246.5	641.0	
Ceiba comunidad (pt.) -----	2 440	754	1.9	.7	1.9	.7	1 284.2	3 485.7	396.8	1 077.1	
Monseratte comunidad (pt.) -----	226	75	.2	.1	.2	.1	1 130.0	2 260.0	375.0	750.0	
Sabana comunidad (pt.) -----	11	4	—	—	—	—	—	—	—	—	
Vega Alta zona urbana (pt.) -----	26	6	.5	.2	.5	.2	52.0	130.0	12.0	30.0	
Vega Alta barrio-pueblo -----	1 460	562	.2	.1	.2	.1	7 300.0	14 600.0	2 810.0	5 620.0	
Vega Alta zona urbana (pt.) -----	1 460	562	.2	.1	.2	.1	7 300.0	14 600.0	2 810.0	5 620.0	
Vega Baja Municipio (pt.) -----	44 248	14 179	37.2	14.4	37.1	14.3	1 192.7	3 094.3	382.2	991.5	
Algarrobo barrio (pt.) -----	13 315	4 317	10.7	4.1	10.7	4.1	1 244.4	3 247.6	403.5	1 052.9	
Coto Norte comunidad (pt.) -----	769	261	.3	.1	.3	.1	2 563.3	7 690.0	870.0	2 610.0	
Vega Baja zona urbana (pt.) -----	8 834	2 888	5.9	2.3	5.9	2.3	1 497.3	3 840.9	489.5	1 255.7	
Almirante Norte barrio (pt.) -----	2 964	925	4.7	1.8	4.7	1.8	630.6	1 646.7	196.8	513.9	
Almirante Sur barrio (pt.) -----	1 878	586	4.7	1.8	4.7	1.8	399.6	1 043.3	124.7	325.6	
Miranda comunidad -----	1 878	586	4.7	1.8	4.7	1.8	399.6	1 043.3	124.7	325.6	
Cabo Caribe barrio (pt.) -----	4 000	1 292	2.6	1.0	2.6	1.0	1 538.5	4 000.0	496.9	1 292.0	
Vega Baja zona urbana (pt.) -----	3 735	1 213	2.5	1.0	2.5	1.0	1 494.0	3 735.0	485.2	1 213.0	
Ceiba barrio (pt.) -----	5 063	1 584	4.3	1.7	4.2	1.6	1 205.5	3 164.4	377.1	990.0	
Ceiba comunidad (pt.) -----	1 014	313	.6	.2	.6	.2	1 690.0	5 070.0	521.7	1 565.0	
Monseratte comunidad (pt.) -----	2 421	779	1.6	.6	1.5	.6	1 614.0	4 035.0	519.3	1 298.3	
Sabana comunidad (pt.) -----	1 196	366	.9	.3	.9	.3	1 328.9	3 986.7	406.7	1 220.0	
Cibuco barrio (pt.) -----	490	155	1.5	.6	1.5	.6	326.7	816.7	103.3	258.3	
Pugnado Afuera barrio (pt.) -----	9 887	2 994	4.5	1.7	4.5	1.7	2 197.1	5 815.9	665.3	1 761.2	
Vega Baja zona urbana (pt.) -----	8 564	2 563	3.8	1.5	3.8	1.5	2 253.7	5 709.3	674.5	1 708.7	
Rio Abajo barrio (pt.) -----	5 436	1 742	3.9	1.5	3.9	1.5	1 393.8	3 624.0	446.7	1 161.3	
Vega Baja zona urbana (pt.) -----	5 405	1 732	3.3	1.3	3.3	1.3	1 637.9	4 157.7	524.8	1 332.3	
Vega Baja barrio-pueblo -----	1 215	584	.3	.1	.3	.1	4 050.0	12 150.0	1 946.7	5 840.0	
Vega Baja zona urbana (pt.) -----	1 215	584	.3	.1	.3	.1	4 050.0	12 150.0	1 946.7	5 840.0	

Table 24. Population, Housing Units, and Land Area for Urbanized Area by Population Size Class of Urbanized Area: 1990

[For definitions of terms and meanings of symbols, see text]

Size of Place Population Size Class of Urbanized Area	Inside urbanized area							Inside metropolitan area			Outside met- ropolitan area	
	Total	In central place	Urban fringe					Total	In central city	Not in cen- tral city		
			Total	Place of 50,000 or more	Place of 10,000 to 49,999	Place of 2,500 to 9,999	Place of less than 2,500					Other urban
POPULATION												
Puerto Rico	2 125 255	918 057	1 207 198	437 892	166 533	162 166	58 266	382 341	2 784 998	860 973	1 924 025	737 039
Inside urbanized areas	2 125 255	918 057	1 207 198	437 892	166 533	162 166	58 266	382 341	2 107 775	829 314	1 278 461	17 480
1,000,000 or more	1 221 086	426 832	794 254	437 892	141 761	71 006	14 413	129 182	1 221 086	426 832	794 254	--
5,000,000 or more	--	--	--	--	--	--	--	--	--	--	--	--
2,500,000 to 4,999,999	--	--	--	--	--	--	--	--	--	--	--	--
1,000,000 to 2,499,999	1 221 086	426 832	794 254	437 892	141 761	71 006	14 413	129 182	1 221 086	426 832	794 254	--
San Juan, PR	1 221 086	426 832	794 254	437 892	141 761	71 006	14 413	129 182	1 221 086	426 832	794 254	--
Less than 1,000,000	904 169	491 225	412 944	--	24 772	91 160	43 853	253 159	886 689	402 482	484 207	17 480
500,000 to 999,999	--	--	--	--	--	--	--	--	--	--	--	--
250,000 to 499,999	--	--	--	--	--	--	--	--	--	--	--	--
100,000 to 249,999	604 177	378 695	225 482	--	24 772	51 441	20 078	129 191	589 297	334 590	254 707	14 880
Caguas, PR	190 922	92 429	98 493	--	--	26 812	6 939	64 742	190 922	92 429	98 493	--
Mayagüez, PR	110 904	83 010	27 894	--	--	--	--	14 309	110 904	83 010	27 894	--
Ponce, PR	190 079	159 151	30 928	--	--	--	--	3 601	175 199	159 151	16 048	14 880
Vega Baja--Manati, PR	112 272	44 105	68 167	--	11 187	11 976	9 538	35 466	112 272	--	112 272	--
Less than 100,000	299 992	112 530	187 462	--	--	39 719	23 775	123 968	297 392	67 892	229 500	2 600
Aguadilla, PR	99 936	18 347	81 589	--	--	16 287	5 666	59 636	99 936	18 347	81 589	--
Arecibo, PR	88 967	49 545	39 422	--	--	9 132	7 725	22 565	88 967	49 545	39 422	--
Cayey, PR	53 945	23 332	30 613	--	--	5 580	4 143	20 890	52 907	--	52 907	1 038
Humacao, PR	57 144	21 306	35 838	--	--	8 720	6 241	20 877	55 582	--	55 582	1 562
Outside urbanized areas	--	--	--	--	--	--	--	--	677 223	31 659	645 564	719 559
HOUSING UNITS												
Puerto Rico	720 311	330 266	390 045	147 210	52 647	51 292	18 075	120 821	946 475	311 890	634 585	242 510
Inside urbanized areas	720 311	330 266	390 045	147 210	52 647	51 292	18 075	120 821	715 268	300 417	414 851	5 043
1,000,000 or more	421 479	164 397	257 082	147 210	44 433	21 442	4 269	39 728	421 479	164 397	257 082	--
5,000,000 or more	--	--	--	--	--	--	--	--	--	--	--	--
2,500,000 to 4,999,999	--	--	--	--	--	--	--	--	--	--	--	--
1,000,000 to 2,499,999	421 479	164 397	257 082	147 210	44 433	21 442	4 269	39 728	421 479	164 397	257 082	--
San Juan, PR	421 479	164 397	257 082	147 210	44 433	21 442	4 269	39 728	421 479	164 397	257 082	--
Less than 1,000,000	298 832	165 869	132 963	--	8 214	29 850	13 806	81 093	293 789	136 020	157 769	5 043
500,000 to 999,999	--	--	--	--	--	--	--	--	--	--	--	--
250,000 to 499,999	--	--	--	--	--	--	--	--	--	--	--	--
100,000 to 249,999	199 005	126 735	72 270	--	8 214	16 678	6 255	41 123	194 772	111 788	82 984	4 233
Caguas, PR	62 292	30 354	31 938	--	--	9 348	2 176	20 414	62 292	30 354	31 938	--
Mayagüez, PR	39 574	29 692	9 882	--	4 731	--	--	5 151	39 574	29 692	9 882	--
Ponce, PR	60 573	51 742	8 831	--	--	3 634	1 049	4 148	56 340	51 742	4 598	4 233
Vega Baja--Manati, PR	36 566	14 947	21 619	--	3 483	3 696	3 030	11 410	36 566	--	36 566	--
Less than 100,000	99 827	39 134	60 693	--	--	13 172	7 551	39 970	99 017	24 232	74 785	810
Aguadilla, PR	33 947	6 882	27 065	--	--	5 352	1 830	19 883	33 947	6 882	27 065	--
Arecibo, PR	30 588	17 350	13 238	--	--	3 246	2 518	7 474	30 588	17 350	13 238	--
Cayey, PR	17 187	7 950	9 237	--	--	1 745	1 276	6 216	16 868	--	16 868	319
Humacao, PR	18 105	6 952	11 153	--	--	2 829	1 927	6 397	17 614	--	17 614	491
Outside urbanized areas	--	--	--	--	--	--	--	--	231 207	11 473	219 734	237 467
LAND AREA IN SQUARE KILOMETERS												
Puerto Rico	1 274.9	348.4	926.5	154.6	64.1	77.1	47.1	583.6	4 813.0	328.8	4 484.2	4 061.7
Inside urbanized areas	1 274.9	348.4	926.5	154.6	64.1	77.1	47.1	583.6	1 261.2	308.0	953.2	13.7
1,000,000 or more	512.0	102.2	409.9	154.6	46.2	31.3	10.3	167.4	512.0	102.2	409.9	--
5,000,000 or more	--	--	--	--	--	--	--	--	--	--	--	--
2,500,000 to 4,999,999	--	--	--	--	--	--	--	--	--	--	--	--
1,000,000 to 2,499,999	512.0	102.2	409.9	154.6	46.2	31.3	10.3	167.4	512.0	102.2	409.9	--
San Juan, PR	512.0	102.2	409.9	154.6	46.2	31.3	10.3	167.4	512.0	102.2	409.9	--
Less than 1,000,000	762.9	246.3	516.6	--	17.9	45.8	36.8	416.2	749.2	205.8	543.4	13.7
500,000 to 999,999	--	--	--	--	--	--	--	--	--	--	--	--
250,000 to 499,999	--	--	--	--	--	--	--	--	--	--	--	--
100,000 to 249,999	447.9	180.5	267.4	--	17.9	24.9	18.3	206.3	438.4	159.3	279.1	9.5
Caguas, PR	148.9	28.5	120.4	--	--	9.5	4.6	106.3	148.9	28.5	120.4	--
Mayagüez, PR	94.6	54.2	40.4	--	12.9	--	--	27.5	94.6	54.2	40.4	--
Ponce, PR	108.5	76.6	31.9	--	--	6.3	2.3	23.3	99.0	76.6	22.4	9.5
Vega Baja--Manati, PR	95.9	21.2	74.8	--	5.0	9.2	11.5	49.1	95.9	--	95.9	--
Less than 100,000	315.0	65.8	249.2	--	--	20.8	18.5	209.9	310.7	46.5	264.2	4.3
Aguadilla, PR	120.2	6.7	113.5	--	--	8.1	2.2	103.1	120.2	6.7	113.5	--
Arecibo, PR	97.6	39.8	57.8	--	--	4.8	6.1	46.9	97.6	39.8	57.8	--
Cayey, PR	39.2	6.8	32.3	--	--	2.2	4.4	25.7	37.0	--	37.0	2.1
Humacao, PR	58.1	12.4	45.6	--	--	5.6	5.8	34.2	55.9	--	55.9	2.2
Outside urbanized areas	--	--	--	--	--	--	--	--	3 551.8	20.8	3 530.9	4 048.0
LAND AREA IN SQUARE MILES												
Puerto Rico	492.3	134.5	357.7	59.7	24.8	29.8	18.2	225.3	1 858.3	127.0	1 731.3	1 568.2
Inside urbanized areas	492.3	134.5	357.7	59.7	24.8	29.8	18.2	225.3	487.0	118.9	368.0	5.3
1,000,000 or more	197.7	39.4	158.2	59.7	17.9	12.1	4.0	64.6	197.7	39.4	158.2	--
5,000,000 or more	--	--	--	--	--	--	--	--	--	--	--	--
2,500,000 to 4,999,999	--	--	--	--	--	--	--	--	--	--	--	--
1,000,000 to 2,499,999	197.7	39.4	158.2	59.7	17.9	12.1	4.0	64.6	197.7	39.4	158.2	--
San Juan, PR	197.7	39.4	158.2	59.7	17.9	12.1	4.0	64.6	197.7	39.4	158.2	--
Less than 1,000,000	294.6	95.1	199.5	--	6.9	17.7	14.2	160.7	289.3	79.5	209.8	5.3
500,000 to 999,999	--	--	--	--	--	--	--	--	--	--	--	--
250,000 to 499,999	--	--	--	--	--	--	--	--	--	--	--	--
100,000 to 249,999	172.9	69.7	103.2	--	6.9	9.6	7.1	79.7	169.3	61.5	107.8	3.7
Caguas, PR	57.5	11.0	46.5	--	--	3.7	1.8	41.1	57.5	11.0	46.5	--
Mayagüez, PR	36.5	20.9	15.6	--	5.0	--	--	10.6	36.5	20.9	15.6	--
Ponce, PR	41.9	29.6	12.3	--	--	2.4	.9	9.0	38.2	29.6	8.7	3.7
Vega Baja--Manati, PR	37.0	8.2	28.9	--	1.9	3.5	4.4	19.0	37.0	--	37.0	--
Less than 100,000	121.6	25.4	96.2	--	--	8.0	7.1	81.1	120.0	18.0	102.0	1.6
Aguadilla, PR	46.4	2.6	43.8	--	--	3.1	.9	39.8	46.4	2.6	43.8	--
Arecibo, PR	37.7	15.4	22.3	--	--	1.9	2.4	18.1	37.7	15.4	22.3	--
Cayey, PR	15.1	2.6	12.5	--	--	.9	1.7	9.9	14.3	--	14.3	.8
Humacao, PR	22.4	4.8	17.6	--	--	2.2	2.2	13.2	21.6	--	21.6	.8
Outside urbanized areas	--	--	--	--	--	--	--	--	1 371.3	8.0	1 363.3	1 562.9

APPENDIX A. Area Classifications

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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 for the entity in 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 REGION AND CENSUS DIVISION

For statistical purposes, the United States is divided into four census regions, which are further subdivided into nine divisions. Puerto Rico is not assigned to any region or division.

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 and CD-ROM's.

Federal Information Processing Standards (FIPS) Code

Federal Information Processing Standards (FIPS) codes are assigned for a variety of geographic entities, including 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 and CD-ROM's.

The objective of the FIPS codes is to improve the use of data resources of the Federal Government and avoid unnecessary duplication and incompatibilities in the collection, processing, and dissemination of data. More information about 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"
  
```

HISTORICAL COUNTS

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

In cases where an entity was formed since a preceding census, such as a new place, the symbol three dots "..." is shown for earlier censuses. The three-dot symbol also is shown for those parts of a place that have extended into an additional municipio or municipio subdivision since the preceding census.

In some cases, population and housing unit counts for individual areas were revised since publication of the 1980 reports (indicated by the prefix "r"). In a number of tables of 1990 CPH-2, *Population and Housing Unit Counts*, 1980 counts are shown for aggregations of individual areas, such as the number, population, and housing unit counts of places in size groups, or urban and rural distributions. Revisions of population and housing unit counts for individual areas were not applied to the various aggregations. Therefore, it may not be possible to determine the individual areas in a given aggregation using the historical counts; conversely, the sum of the counts shown for individual areas may not agree with the aggregation.

INTERNAL POINT

An internal point is a set of geographic coordinates (latitude and longitude) that is located within a specified geographic entity. A single point is identified for each entity; for many entities, this point 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.

METROPOLITAN AREA

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

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

An MA in Puerto Rico must contain either a place with a minimum population of 50,000 or a Census Bureau-defined urbanized area and a total MA population of at least 100,000. An MA comprises one or more municipios that have close economic and social relationships. An outlying municipio must have a specified level of commuting to the central municipio(s) and also must meet certain standards regarding metropolitan character, such as population density, urban population, and population growth, to be included in an MA.

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

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

Central City

In each MSA and CMSA in Puerto Rico, the largest place and, in some cases, additional places are designated as "central cities" under the official standards. The largest central city and, in some cases, up to two additional central cities may be included in the title of the MA; there also may be central cities that are not included in an MA title.

AREA CLASSIFICATIONS

Consolidated and Primary Metropolitan Statistical Area (CMSA and PMSA)

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

Metropolitan Statistical Area (MSA)

Metropolitan statistical areas (MSA's) are relatively free-standing MA's and are not closely associated with other MA's.

Metropolitan Area Title and Code

The title of an MSA contains the name of its largest central city and up to two additional place names, provided that the additional places meet specified levels of population, employment, and commuting.

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

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

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.

POPULATION OR HOUSING UNIT DENSITY

Population or housing unit density is computed by dividing the total population or housing units of a geographic unit (for example, Puerto Rico, municipio, place) by its land area measured in square kilometers or square

miles. Density is expressed as both “persons (or housing units) per square kilometer” and “persons (or housing units) per square mile” of land area in 1990 census printed reports.

STATE

States are the primary governmental divisions of the United States. The District of Columbia is treated as a statistical equivalent of a State for census purposes. The Census Bureau treats the Outlying Areas as the statistical 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, U.S. Bureau of the Census, Washington, DC 20233.

UNITED STATES

The United States comprises the 50 States and the District of Columbia. In addition, the Census Bureau treats the Outlying Areas (see “State”) as statistical equivalents of States for the 1990 census.

URBAN AND RURAL

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

1. Places of 2,500 or more persons.
2. All other territory included in urbanized areas.

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

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

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

In censuses prior to 1950, "urban" comprised all territory, persons, and housing units in places of 2,500 or more persons. The definition of urban that restricted itself to places having 2,500 or more persons excluded many large, densely settled areas merely because they were not places. To improve its measure of urban territory, population, and housing units, the Census Bureau adopted the concept of the urbanized area.

URBANIZED AREA

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

Urbanized Area Central Place

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

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

Urbanized Area Title and Code

The title of a UA identifies those places that are most important within the UA; it links the UA to the encompassing MA, where appropriate. If a single MA includes most of the UA, the title and code of the UA generally are the same as the title and code of the MA. If the UA is not mostly included in a single MA, if it does not include any place that is a central city of the encompassing MA, or if it is not located in an MA, the Census Bureau uses the population size of the included places to determine the UA title. The name of Puerto Rico is included in the title of each UA in the Commonwealth.

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

VOTING DISTRICT (VTD)

A voting district (VTD) is any of a variety of types of areas (for example, election districts, precincts, 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 reports data for areas coded "ZZZZ."

APPENDIX B.

Definitions of Subject Characteristics

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POPULATION CHARACTERISTICS

In this report, counts of all persons living in housing units and group quarters are presented for various geographic areas. Separate population characteristics are not shown.

HOUSING CHARACTERISTICS

LIVING QUARTERS

Living quarters are classified as either housing units or group quarters. 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.

DERIVED MEASURES

This report includes various derived measures such as 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 (–).

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 (2) the quotient of two numbers which provides a relative measure of difference.

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 nonmatches 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 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 as 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 (ICR's), Military Census Reports (MCR's), and Shipboard Census Reports (SCR's) 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; font-size: small;">U.S. DEPARTMENT OF COMMERCE BUREAU OF THE CENSUS</p> <p style="text-align: center; font-size: large;">1990 CENSUS OF PUERTO RICO</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> <ul style="list-style-type: none"> • 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. <i>(Give respondent copy of Privacy Act Notice).</i> NEXT: Ask the questions at the top of the listing page. Obtain a completed form from each address. • 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)? 				
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	F1. Complete after			F2. Coverage
	Occupied 3 <input type="checkbox"/> First Form 4 <input type="checkbox"/> Continuation	Vacant 1 <input type="checkbox"/> Regular 2 <input type="checkbox"/> UHE			1 <input type="checkbox"/> 1b 2 <input type="checkbox"/> 1a
1 <input type="checkbox"/> LR 3 <input type="checkbox"/> MV 5 <input type="checkbox"/> TC 7 <input type="checkbox"/> P0 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					
G. Mailing address — <i>Number, street, apartment number or location, rural route and box, post office box</i>					
City	Municipio		PUERTO RICO	ZIP Code	
H. Method of completion — <i>Mark (X) ONE box</i>		I. Respondent's name		J. Respondent's telephone number	
1 <input type="checkbox"/> Personal visit 2 <input type="checkbox"/> Telephone				(809)	
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					

Page 1

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

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

1a. 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		

1b. 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	

PLEASE ALSO ASK HOUSING QUESTIONS ON PAGE 3 →

	PERSON 1		PERSON 2	
	Last name		Last name	
	First name	Middle initial	First name	Middle initial
<p><i>Please fill one column → for each person listed in Question 1a on page 1.</i></p>				
<p><i>Do not ask for Person 1.</i></p> <p>2. How is . . . related to (Person 1)? <i>Mark (X) ONE box for each person.</i></p> <p><i>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.</i></p>	<p><i>START in this column with the household member (or one of the members) in whose name the home is owned, being bought, or rented.</i></p> <p><i>If there is no such person, start in this column with any adult household member.</i></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 ↴</p> <p style="text-align: center;">-----</p> <p style="text-align: center;">[] [] []</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/Compañero</p> <p>11 <input type="checkbox"/> Other nonrelative</p>		
<p>3. Is . . . male or female? <i>Mark (X) ONE box for each person.</i></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 . . . ? <i>(Age should be as of April 1, 1990.)</i> <i>If unknown, say —</i> Please give me your best estimate. <i>Print the age in the boxes.</i></p> <p>b. In what year was . . . born? <i>Print the year of birth in the boxes.</i></p>	<p>a. Age [] [] []</p> <p>b. Year of birth 1 [] [] []</p>	<p>a. Age [] [] []</p> <p>b. Year of birth 1 [] [] []</p>		
<p>5. Is . . . now married, consensually married, widowed, divorced, separated, or has . . . never been married? <i>Mark (X) ONE box for each person.</i></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
If a RELATIVE of Person 1:	
1 <input type="checkbox"/> Husband/wife	
2 <input type="checkbox"/> Natural-born or adopted son/daughter	
3 <input type="checkbox"/> Stepson/stepdaughter	
4 <input type="checkbox"/> Brother/sister	
5 <input type="checkbox"/> Father/mother	
6 <input type="checkbox"/> Grandchild	
7 <input type="checkbox"/> Other relative	
<div style="border: 1px dashed black; width: 100px; height: 20px; margin: 0 auto;"></div> <div style="display: flex; justify-content: center; gap: 10px; margin-top: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px;"></div> <div style="border: 1px solid black; width: 20px; height: 15px;"></div> <div style="border: 1px solid black; width: 20px; height: 15px;"></div> </div>	
If NOT RELATED to Person 1:	
8 <input type="checkbox"/> Roomer, boarder, or foster child	
9 <input type="checkbox"/> Housemate, roommate	
10 <input type="checkbox"/> Unmarried partner/Compañero	
11 <input type="checkbox"/> Other nonrelative	
1 <input type="checkbox"/> Male	
2 <input type="checkbox"/> Female	
a. Age	<div style="border: 1px solid black; width: 40px; height: 20px; display: flex; justify-content: space-around;"> </div>
b. Year of birth	<div style="border: 1px solid black; width: 60px; height: 20px; display: flex; justify-content: space-around;"> 1 </div>
1 <input type="checkbox"/> Now married	
2 <input type="checkbox"/> Consensually married	
3 <input type="checkbox"/> Widowed	
4 <input type="checkbox"/> Divorced	
5 <input type="checkbox"/> Separated	
6 <input type="checkbox"/> Never married	

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 style="text-align: center;"><i>Ask only if this is a ONE-FAMILY HOUSE —</i></p> <p>H7a. Is this house on a property of 3 or more cuerdas?</p> <p>1 <input type="checkbox"/> Yes</p> <p>2 <input type="checkbox"/> No</p> <p>b. Is any part of the property used as:</p> <table style="width: 100%; border: none;"> <tr> <td></td> <td style="text-align: center;">Yes</td> <td style="text-align: center;">No</td> </tr> <tr> <td>(1) A commercial establishment?</td> <td style="text-align: center;">1 <input type="checkbox"/></td> <td style="text-align: center;">2 <input type="checkbox"/></td> </tr> <tr> <td>(2) A medical office?</td> <td style="text-align: center;">1 <input type="checkbox"/></td> <td style="text-align: center;">2 <input type="checkbox"/></td> </tr> <tr> <td>(3) Other professional office?</td> <td style="text-align: center;">1 <input type="checkbox"/></td> <td style="text-align: center;">2 <input type="checkbox"/></td> </tr> </table>		Yes	No	(1) A commercial establishment?	1 <input type="checkbox"/>	2 <input type="checkbox"/>	(2) A medical office?	1 <input type="checkbox"/>	2 <input type="checkbox"/>	(3) Other professional office?	1 <input type="checkbox"/>	2 <input type="checkbox"/>																								
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<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 style="text-align: center;"><i>Ask only if someone in this household OWNS OR IS BUYING this house or apartment—</i></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 style="width: 100%; border: none;"> <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 style="width: 100%; border: none;"> <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 style="text-align: center;"><i>Ask only if RENT IS PAID for this house or apartment —</i></p> <p>H9. What is the monthly rent?</p> <p style="text-align: center;"><i>If rent is NOT PAID BY THE MONTH, see your job instructions on how to figure a monthly rent.</i></p> <table style="width: 100%; border: none;"> <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>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>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>																																				
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>																																			

Please continue onto the next page.

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

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

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

For the 1990 census, the 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. 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.

Census Information Center (CIC)—The CIC program provides data-related services for nationally based nonprofit organizations that represent minorities or other segments of the population who have been historically undercounted in decennial censuses. The participants include social service, business, professional, civil rights, educational, and religious groups. Through the project, five nonprofit groups now offer their clientele reports, computer tape printouts, and other information from the Census Bureau. To learn more about the program, write to the Census Information Center Branch, Data User Services Division, Bureau of the Census, Washington, DC 20233, or call 301-763-1384.

National Clearinghouse—The National Clearinghouse for Census Data Services is a listing of private companies and other organizations that offer assistance in obtaining and

using data released by the Census Bureau. For a list of participants in the National Clearinghouse, see the *Census Catalog and Guide* or contact Customer Services.

Depository Libraries—There are 1,400 libraries 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
Census/ Equal Employment Opportunity (EEO) Special File	This special computer tape file will provide sample census data to support affirmative action planning for equal employment opportunity. The file will contain tabulations showing detailed occupations and educational attainment data by age. These data also will be cross-tabulated by sex	Municipios, MA's, places of 50,000 or more inhabitants
County-to-County Migration File	This file will provide summary statistics for Puerto Rico migration streams. Each record will include codes for the geographic area of origin, codes for the geographic area of destination, and selected characteristics of the persons who made up the migration stream	Municipios
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