District of Columbia: 2000

Summary Social, Economic, and Housing Characteristics

2000 Census of Population and Housing

United States Census 2000

District of Columbia: 2000

Summary Social, Economic, and Housing Characteristics

2000 Census of Population and Housing
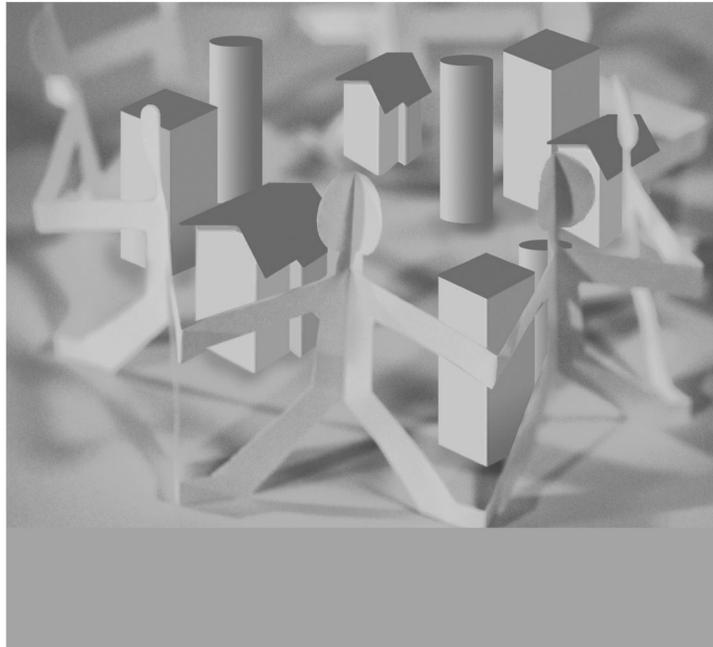
ECONOMICS
AND STATISTICS
ADMINISTRATION

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and Statistics
Administration**

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CONTENTS

Appendixes

* Appendix may be found in the separate volume, PHC-2-A, *Summary Social, Economic, and Housing Characteristics, Selected Appendixes,* in print and on the Internet at http://www.census.gov/prod/cen2000/phc-2-a.pdf.

LIST OF
STATISTICAL
TABLES

* Table was omitted because there were no qualifying geographic areas.

How to Use This Census Report

CONTENTS

INTRODUCTION

Data from Census 2000 are presented in three printed report series:

1. PHC-1, *Summary Population and Housing Characteristics*

2. PHC-2, *Summary Social, Economic, and Housing Characteristics*

3. PHC-3, *Population and Housing Unit Counts*

The data from Census 2000 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, found on the "short form"), and from additional questions asked of a sample of the population and housing units (referred to as the sample questions, found on the "long form").

The PHC-1, *Summary Population and Housing Characteristics,* report series provides data based on the 100-percent questions. The subjects are age, Hispanic or Latino origin, household relationship, race, sex, tenure (owner- or renter-occupied), and vacancy characteristics. Land area measurements and population density also are provided. This series is similar to the 1990 census CPH-1 series.

The PHC-2, *Summary Social, Economic, and Housing Characteristics,* report series provides sample data based on both the 100-percent and the sample questions. Sample subjects include place of birth; residence in 1995; language; educational attainment and school enrollment; veteran status; disability status; employment status; journey to work; work status, earnings, income, and poverty status in 1999; physical housing characteristics; units in structure; fuel and equipment characteristics; owner and renter household characteristics, such as year owner moved into unit; home value; contract and gross rent; and mortgage and rental cost characteristics. This series is similar to the 1990 census CPH-5 series.

The PHC-3, *Population and Housing Unit Counts,* report series provides Census 2000 and historical comparisons of the 100-percent population and housing unit counts. It provides land and water area measurements, and population density. The user notes section documents geographic changes over the past decade. This series is similar to the 1990 census CPH-2 series.

In each series, there is one report for each state, the District of Columbia, and Puerto Rico, plus a United States summary report. Many tables in the United States summary reports include data for Puerto Rico.

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 desired data. The table finding guide lists alphabetically, by geographic area, the subjects shown in this report. To determine which tables in this report show data for a particular topic, find the subject in the lefthand column of the table finding guide and then look across the columns using the headings at the top for the desired type of geographic area. Figure I–1 is an example of a table finding guide.

The table finding guide does not include cross-classifications of subject-matter items. Additional information to locate data within specific reports is provided in the headnote at the top of the table finding guide and in the footnotes at the bottom of the guide.

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 in Figure I–2.

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 subjects 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.

Figure I–1.

Table Finding Guide

SUBJECTS BY TYPE OF GEOGRAPHIC AREA AND TABLE NUMBER

Subjects covered in this guide are shown on the left side, and types of geographic areas are shown at the top. Table numbers shown in **bold** indicate that either all or part of the table is presented for the American Indian and Alaska Native population in American Indian and Alaska Native areas, or for the Native Hawaiian and Other Pacific Islander population in Hawaiian home lands. See PHC-2-A, *Summary Social, Economic, and Housing Characteristics, Selected Appendixes* for a description of area classifications (Appendix A) and for definitions and explanations of subject characteristics (Appendix B).

Subject	The state[1]	County[2]	Place: By county and county subdivision	Place: Alphabetically for the state	County subdivision: By county	County subdivision: Alphabetically for the state	American Indian and Alaska Native area[4]	Hawaiian home land[5]
POPULATION CHARACTERISTICS								
Disability status	5,6	5,6	5	6	5	6	**35**	**51**
Earnings in 1999	11,12	11,12	11	12	11	12	**38**	**54**
Educational attainment	3,4	3,4	3	4	3	4	**34**	**50**
Employment status	7,8	7,8	7	8	7	8	**36**	**52**
Full-time, year-round workers in 1999	9,10,11,12	9,10,11,12	9,11	10,12	9,11	10,12	**37,38**	**53,54**
Household income in 1999	13,14	13,14	13	14	13	14	**39**	**55**
Income in 1999	9,10	9,10	9	10	9	10	**37**	**53**
Journey to work	7,8	7,8	7	8	7	8	**36**	**52**
Language spoken at home and ability to speak English	1,2	1,2	1	2	1	2	**33**	**49**
Nativity	1,2	1,2	1	2	1	2	**33**	**49**
Place of birth	1,2	1,2	1	2	1	2	**33**	**49**
Poverty status in 1999	15,16	15,16	15	16	15	16	**40**	**56**
Residence in 1995	1,2	1,2	1	2	1	2	**33**	**49**
School enrollment and type of school	3,4	3,4	3	4	3	4	**34**	**50**
Veteran status	3,4	3,4	3	4	3	4	**34**	**50**
Work status in 1999	9,10	9,10	9	10	9	10	**37**	**53**
HOUSING CHARACTERISTICS								
Bedrooms	19,20	19,20	19	20	19	20	42	58
Gross rent	29,30	29,30	29	30	29	30	**47**	**63**
House heating fuel	21,22	21,22	21	22	21	22	–	–
Kitchen facilities	19,20	19,20	19	20	19	20	42	58
Mortgage status	31,32	31,32	31	32	31	32	**48**	**64**
Occupancy characteristics	23,24	23,24	23	24	23	24	**44**	**60**
Owner cost characteristics	27,28,31,32	27,28,31,32	27,31	28,32	27,31	28,32	**46,48**	**62,64**
Plumbing facilities	19,20	19,20	19	20	19	20	42	58
Rental cost characteristics	31,32	31,32	31	32	31	32	**48**	**64**
Rooms	19,20	19,20	19	20	19	20	42	58
Telephone service available	21,22	21,22	21	22	21	22	**43**	**59**
Tenure	23,24	23,24	23	24	23	24	–	–
Units in structure	17,18,23,24	17,18,23,24	17,23	18,24	17,23	18,24	41	57
Value of home	25,26	25,26	25	26	25	26	**45**	**61**
Vehicles available	21,22	21,22	21	22	21	22	**43**	**59**
Year householder moved into unit	23,24	23,24	23	24	23	24	**44**	**60**
Year structure built	19,20	19,20	19	20	19	20	42	58

How to Use This Census Report

Figure I–2.

PARTS OF A STATISTICAL TABLE

Labels around the figure:
- Table number and title
- Headnote
- Column head
- Spanner
- Heading
- Stubhead
- Boxhead
- Stub
- Data field
- Sidehead
- Page number and state name
- Report title

Table 6. **Population for Selected Categories of Race: 2000**

[For information on confidentiality protection, nonsampling error, and definitions, see text]

State County Place and [In Selected States] County Subdivision	Selected combinations of two races				Race alone or in combination with one or more other races					
	White; Black or African American	White; American Indian and Alaska Native	White; Asian	Black or African American; American Indian and Alaska native	White	Black or African American	American Indian and Alaska Native	Asian	Native Hawaiian and Other Pacific Islander	Some other race
The State	6 356	17 566	4 772	2 326	3 199 953	1 168 998	44 449	39 458	4 288	38 201

16 Alabama

Summary Population and Housing Characteristics
U.S. Census Bureau, Census 2000

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 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 data field is that part of the statistical 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 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 PHC-2-A, *Summary Social, Economic, and Housing Characteristics, Selected Appendixes,* Appendix A. Census tables often include derived measures such as medians, means, percentages, and ratios. These and other subject-matter terms are defined in Appendix B of the same report.

Symbols and Geographic Abbreviations

The following symbols are used in the tables and explanations of subjects covered in Census 2000 reports:

- A dash "-" represents zero or a derived measure that rounds to less than 0.1.

- (X) means not applicable. In the 1990 and earlier decennial census reports, three dots "..." meant not applicable.

How to Use This Census Report

- (NA) means not available.

- The superscript prefix "r" indicates that the count has been revised since the publication of the 1990 census reports, or that the area was erroneously omitted or not shown in the correct geographic relationship in the 1990 census reports. This symbol appears only in the Census 2000 PHC-3, *Population and Housing Unit Counts,* report series.

- A dagger "†" next to the name of a geographic area indicates that there has been a geographic change (for example, an annexation or detachment, a new incorporation, or a name change) since the information was published for the 1990 census for that area. This symbol appears only in the Census 2000 PHC-3, *Population and Housing Unit Counts*, report series. The geographic change information for the entities in a state is shown in the "User Notes" section of the Census 2000 PHC-3 report for that state.

- A plus sign "+" is appended to the lower bound of the highest interval when the median falls in the upper interval of an open-ended distribution. A minus sign "-" is appended to the upper bound of the lowest interval when the median falls in the lowest interval of an open-ended distribution. For more information on medians, see the section on "Derived Measures" in Appendix B.

- A minus sign "-" preceding a figure denotes decrease. The minus sign appears only in the Census 2000 PHC-3, *Population and Housing Unit Counts,* report series.

The following geographic abbreviations and terms may be used in the tables in this report:

- A "(part)" next to the name of a geographic area in a hierarchical presentation indicates that the geographic entity is located only partially in the superior geographic entity. For example, a "(part)" next to a place name in a county subdivision-place hierarchy indicates that the place is located in more than one county subdivision. (Places also may be "split" by county, congressional district, urban/rural, metropolitan area, voting district, and other geographic boundaries, depending on the presentation.) 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.

- ANVSA is Alaska Native village statistical area.

- ANRC is Alaska Native Regional Corporation.

- CCD is census county division.

- CDP is census designated place.

- CMSA is consolidated metropolitan statistical area.

- MA is metropolitan area.

- MSA is metropolitan statistical area.

- OTSA is Oklahoma tribal statistical area.

- PMSA is primary metropolitan statistical area.

- SDAISA is state designated American Indian statistical area.

- TDSA is tribal designated statistical area.

- UT is unorganized territory.

GRAPHICS

Charts, statistical maps, and other graphic summaries are included in some Census 2000 reports.

USER NOTES

User notes include corrections, errata, and related explanatory information. This section appears directly before the statistical tables in census reports. 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. However, sometimes this information becomes available too late to be reflected even in the user notes. Census 2000 user updates are available on the Census Bureau's Internet site at www.census.gov/main/www/cen2000.html. To receive notification of user notes, subscribe to the Census Product Update (http://www.census.gov/mp/www/cpu.html), a biweekly e-mail newsletter available from the Customer Services Center of the Marketing Services Office at the U.S. Census Bureau, or contact the Customer Services Center directly on 301-763-INFO (4636) or at webmaster@census.gov.

APPENDIXES

Appendixes A through E and Appendix H, described below, are found in the separate printed volume, PHC-2-A, *Summary Social, Economic, and Housing Characteristics, Selected Appendixes,* or on the Internet at http://www.census.gov/prod/cen2000/phc-2-a.pdf. Appendixes F and G are included in this report.

Appendix A, Geographic Terms and Concepts.   Provides definitions of the types of geographic areas and related information used in census products.

Appendix B, Definitions of Subject Characteristics.   Contains definitions for the subject-matter terms used in census products, including explanations of derived measures, limitations of the data, and comparability with previous censuses. The subjects are listed alphabetically. Population characteristics are defined first, followed by the definitions of the housing subjects.

Appendix C, Data Collection and Processing Procedures.   Explains the enumeration and residence rules used in counting the population and housing units in the United States and Puerto Rico. It also describes the major components of the operational plan for Census 2000, and includes a glossary of terms.

Appendix D, Questionnaire.   Presents a facsimile of the Census 2000 questionnaire used to collect the data in this report.

Appendix E, Data Products and User Assistance.   Summarizes the Census 2000 data products by describing the information available in printed reports and through electronic media such as CD-ROM, DVD, and the Internet. It also describes Census 2000 maps and other geographic products, reference materials, and sources of assistance.

Appendix F, Maps.   Contains maps depicting the geographic areas shown in this report.

Appendix G, Accuracy of the Data.   Provides information on confidentiality of the data, imputation of housing unit status and population counts, sources of errors in the data, and editing of unacceptable data.

Appendix H, Acknowledgments.   Lists many of the U.S. Census Bureau staff who participated in the various activities of Census 2000.

Table Finding Guide

SUBJECTS BY TYPE OF GEOGRAPHIC AREA AND TABLE NUMBER

Subjects covered in this guide are shown on the left side, and types of geographic areas are shown at the top. Table numbers shown in **bold** indicate that either all or part of the table is presented for the American Indian and Alaska Native population in American Indian and Alaska Native areas, or for the Native Hawaiian and Other Pacific Islander population in Hawaiian home lands. See PHC-2-A, *Summary Social, Economic, and Housing Characteristics, Selected Appendixes* for a description of area classifications (Appendix A) and for definitions and explanations of subject characteristics (Appendix B).

| Subject | The state[1] | County[2] | Place | | County subdivision | | American Indian and Alaska Native area[4] | Hawaiian home land[5] |
			By county and county sub-division	Alpha-beti-cally for the state	By county	Alpha-beti-cally for the state		
POPULATION CHARACTERISTICS								
Disability status	5,6	5,6	5	6	5	6	**35**	**51**
Earnings in 1999.	11,12	11,12	11	12	11	12	**38**	**54**
Educational attainment	3,4	3,4	3	4	3	4	**34**	**50**
Employment status.	7,8	7,8	7	8	7	8	**36**	**52**
Full-time, year-round workers in 1999	9,10,11,12	9,10,11,12	9,11	10,12	9,11	10,12	**37,38**	**53,54**
Household income in 1999	13,14	13,14	13	14	13	14	**39**	**55**
Income in 1999	9,10	9,10	9	10	9	10	**37**	**53**
Journey to work.	7,8	7,8	7	8	7	8	**36**	**52**
Language spoken at home and ability to speak English	1,2	1,2	1	2	1	2	**33**	**49**
Nativity	1,2	1,2	1	2	1	2	**33**	**49**
Place of birth	1,2	1,2	1	2	1	2	**33**	**49**
Poverty status in 1999.	15,16	15,16	15	16	15	16	**40**	**56**
Residence in 1995	1,2	1,2	1	2	1	2	**33**	**49**
School enrollment and type of school	3,4	3,4	3	4	3	4	**34**	**50**
Veteran status	3,4	3,4	3	4	3	4	**34**	**50**
Work status in 1999	9,10	9,10	9	10	9	10	**37**	**53**
HOUSING CHARACTERISTICS								
Bedrooms.	19,20	19,20	19	20	19	20	42	58
Gross rent.	29,30	29,30	29	30	29	30	**47**	63
House heating fuel	21,22	21,22	21	22	21	22	–	–
Kitchen facilities.	19,20	19,20	19	20	19	20	42	58
Mortgage status	31,32	31,32	31	32	31	32	**48**	64
Occupancy characteristics.	23,24	23,24	23	24	23	24	**44**	60
Owner cost characteristics	27,28,31,32	27,28,31,32	27,31	28,32	27,31	28,32	**46,48**	**62,64**
Plumbing facilities	19,20	19,20	19	20	19	20	42	58
Rental cost characteristics	31,32	31,32	31	32	31	32	**48**	64
Rooms.	19,20	19,20	19	20	19	20	42	58
Telephone service available	21,22	21,22	21	22	21	22	**43**	59
Tenure.	23,24	23,24	23	24	23	24	–	–
Units in structure.	17,18,23,24	17,18,23,24	17,23	18,24	17,23	18,24	41	57
Value of home	25,26	25,26	25	26	25	26	**45**	**61**
Vehicles available	21,22	21,22	21	22	21	22	**43**	59
Year householder moved into unit . . .	23,24	23,24	23	24	23	24	**44**	60
Year structure built	19,20	19,20	19	20	19	20	42	58

See footnotes on next page.

[1]State, District of Columbia, or Puerto Rico.

[2]Parish in Louisiana; city and borough, municipality, borough, or census area in Alaska; and municipio in Puerto Rico; in Maryland, Missouri, Nevada, and Virginia, one or more cities are independent of counties and are treated as statistical equivalents of counties; the entire District of Columbia, which has no counties, is treated as a county equivalent.

[3]County subdivisions within the state are shown alphabetically with places for the following 12 states: Connecticut, Maine, Massachusetts, Michigan, Minnesota, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont, and Wisconsin.

[4]American Indian and Alaska Native areas include state and federal American Indian Reservations; Oklahoma tribal statistical areas (OTSAs); tribal designated statistical areas (TDSAs) (federal areas); state designated American Indian statistical areas (SDAISAs) (state areas); Alaska Native village statistical areas (ANVSAs); and Alaska Native Regional Corporations (ANRCs).

[5]Tables for these areas appear only in the report for Hawaii.

User Notes

Additional information concerning this Census 2000 product and its source file, Summary File 3, may become available after this report is published. This information, called Notes and Errata, is available in portable document format (PDF) on the U.S. Census Bureau's Internet site at http://www.census.gov/main/www/cen2000.html. To receive notification of user notes, subscribe to the Census Product Update (http://www.census.gov/mp/www/cpu.html), a biweekly e-mail newsletter available from the Customer Services Center of the Marketing Services Office at the U.S. Census Bureau, or contact the Customer Services Center directly on 301-763-INFO (4636) or at webmaster@census.gov.

ADDITIONAL DEFINITIONS AND EXPLANATIONS OF THE DATA

Data Note 1

The user should note that there are limitations to many of these data. Please refer to the text for further explanations on the limitations of the data. See Appendix G of this report and the text found in PHC-2-A, *Summary Social, Economic, and Housing Characteristics, Selected Appendixes.*

Data Note 2

The Census Bureau is aware there may be a problem in the Census 2000 employment status data for people enumerated in group quarters. The problem may cause the labor force data for places, particularly those with high concentrations of people in group quarters (such as college towns with large dormitory populations) to overstate the number in the labor force, the number unemployed, and the percent unemployed, and to understate the number of employed. For more information, see the Census 2000 Notes and Errata document at the following Census Bureau Internet site: http://www.census.gov/prod/cen2000/notes/errata.pdf.

Data Note 3

Estimated population and housing unit totals based on tabulations from only the sample questionnaires (sample tabulations) may differ from the official counts as tabulated from every census questionnaire (100-percent tabulations). Such differences result, in part, because the sample tabulations are based on information from a sample of households rather than from all households (sampling error). Differences also can occur because the interview situation (length of questionnaire, effect of the interviewer, etc.) and the processing rules differ between the 100-percent and sample tabulations. These types of differences are referred to as nonsampling error. (For more information, see Appendix G.)

The 100-percent data are the official counts and should be used as the source of information on population and housing items collected on the 100-percent questionnaire, such as age, race, Hispanic or Latino origin, and tenure. This is especially appropriate when the primary focus is on counts of the population or housing units for small areas. For estimates of the number of people and housing units by characteristics asked only on a sample basis (such as education, labor force status, income in 1999, or year structure built), the sample estimates should be used within the context of the error associated with them.

Additional information on comparing sample estimates with corresponding 100-percent values is available on the Census Bureau's Internet site at http://www.census.gov/Press-Release/www /2002/sf3compnote.html.

Data Note 4

Median incomes for nonfamily households by race were calculated from a 38-category income distribution rather than the standard 39-category income distribution. The 38-category distribution collapsed the two highest categories ($175,000 - $199,999 and $200,000 and over) into a single category of $175,000 and over.

Data Note 5

Users may find slight differences in the Occupants Per Room calculations between those found in this report and those found in the Census 2000 Demographic Profile. "Occupants per room" is obtained by dividing the number of people in each occupied housing unit by the number of rooms in the unit. This report, based on Summary File 3, correctly uses a topcode value of "10 rooms" for those occupied housing units with "9 or more rooms." In the Demographic Profile, an incorrect topcode value of "9 rooms" was used.

Table 1. **Place of Birth, Residence in 1995, and Language: 2000**

[Data based on a sample (except Tables 65-68). For information on confidentiality protection, coverage, sampling error, and nonsampling error, see Appendix G.
For location of definitions, see "How to Use This Census Report"]

District of Columbia County Place	Total population	Native population— Percent born in state of residence	Foreign-born population			Population 5 years and over		Speak a language other than English at home			
			Number	Percent of total population	Percent naturalized citizens	Number	Percent living in different house in 1995	Population 5 to 17 years		Population 18 years and over	
								Number	Percent who speak English less than "very well"	Number	Percent who speak English less than "very well"
The State ……………………………	**572 059**	**45.0**	**73 561**	**12.9**	**30.0**	**539 658**	**50.1**	**12 223**	**36.9**	**78 194**	**43.1**
District of Columbia …………………………	572 059	45.0	73 561	12.9	30.0	539 658	50.1	12 223	36.9	78 194	43.1
Washington city ………………………………	572 059	45.0	73 561	12.9	30.0	539 658	50.1	12 223	36.9	78 194	43.1

Table 2. **Place of Birth, Residence in 1995, and Language: 2000**

[Data based on a sample (except Tables 65-68). For information on confidentiality protection, coverage, sampling error, and nonsampling error, see Appendix G.
For location of definitions, see "How to Use This Census Report"]

District of Columbia County Place	Total population	Native population— Percent born in state of residence	Foreign-born population			Population 5 years and over		Speak a language other than English at home			
			Number	Percent of total population	Percent naturalized citizens	Number	Percent living in different house in 1995	Population 5 to 17 years		Population 18 years and over	
								Number	Percent who speak English less than "very well"	Number	Percent who speak English less than "very well"
The State ……………………………	**572 059**	**45.0**	**73 561**	**12.9**	**30.0**	**539 658**	**50.1**	**12 223**	**36.9**	**78 194**	**43.1**
COUNTY											
District of Columbia …………………………	572 059	45.0	73 561	12.9	30.0	539 658	50.1	12 223	36.9	78 194	43.1
PLACE											
Washington city, District of Columbia ……………	572 059	45.0	73 561	12.9	30.0	539 658	50.1	12 223	36.9	78 194	43.1

Table 3. **Education and Veteran Status: 2000**

[Data based on a sample (except Tables 65-68). For information on confidentiality protection, coverage, sampling error, and nonsampling error, see Appendix G.
For location of definitions, see "How to Use This Census Report"]

District of Columbia County Place	Population 3 years and over enrolled in school				Population 16 to 19 years			Population 25 years and over			Civilian veterans 18 years and over	
		Elementary or high school				Not enrolled in school and not high school graduate						
	Pre- primary school	Number	Percent in private school	College or graduate school	Total	Number	Percent	Number	Percent high school graduate or higher	Percent with Bachelor's degree or higher	Total	65 years and over
The State	**16 809**	**81 168**	**15.3**	**59 498**	**32 400**	**3 265**	**10.1**	**384 535**	**77.8**	**39.1**	**44 484**	**18 150**
District of Columbia	16 809	81 168	15.3	59 498	32 400	3 265	10.1	384 535	77.8	39.1	44 484	18 150
Washington city	16 809	81 168	15.3	59 498	32 400	3 265	10.1	384 535	77.8	39.1	44 484	18 150

Table 4. Education and Veteran Status: 2000

[Data based on a sample (except Tables 65-68). For information on confidentiality protection, coverage, sampling error, and nonsampling error, see Appendix G.
For location of definitions, see "How to Use This Census Report"]

District of Columbia County Place	Population 3 years and over enrolled in school				Population 16 to 19 years			Population 25 years and over			Civilian veterans 18 years and over	
		Elementary or high school		College or graduate school		Not enrolled in school and not high school graduate			Percent high school graduate or higher	Percent with Bachelor's degree or higher		65 years and over
	Pre-primary school	Number	Percent in private school		Total	Number	Percent	Number			Total	
The State	**16 809**	**81 168**	**15.3**	**59 498**	**32 400**	**3 265**	**10.1**	**384 535**	**77.8**	**39.1**	**44 484**	**18 150**
COUNTY												
District of Columbia	16 809	81 168	15.3	59 498	32 400	3 265	10.1	384 535	77.8	39.1	44 484	18 150
PLACE												
Washington city, District of Columbia	16 809	81 168	15.3	59 498	32 400	3 265	10.1	384 535	77.8	39.1	44 484	18 150

Table 5. Disability Status: 2000

[Data based on a sample (except Tables 65-68). For information on confidentiality protection, coverage, sampling error, and nonsampling error, see Appendix G. For location of definitions, see "How to Use This Census Report"]

District of Columbia County Place	Civilian noninstitutionalized population with a disability			Percent of civilian noninstitutionalized population with specified disability							Percent employed of civilian noninstitutionalized population 21 to 64 years		
				5 years and over					16 years and over, going outside the home	16 to 64 years, employment disability		Disability status	
	5 years and over	16 to 64 years	65 years and over	Any disability	Sensory	Physical	Mental	Self-care			Total	With a disability	No disability
The State	**115 980**	**82 850**	**28 280**	**21.9**	**3.2**	**8.0**	**4.9**	**3.0**	**11.0**	**13.5**	**68.9**	**52.8**	**73.4**
District of Columbia	115 980	82 850	28 280	21.9	3.2	8.0	4.9	3.0	11.0	13.5	68.9	52.8	73.4
Washington city	115 980	82 850	28 280	21.9	3.2	8.0	4.9	3.0	11.0	13.5	68.9	52.8	73.4

Table 6. Disability Status: 2000

[Data based on a sample (except Tables 65-68). For information on confidentiality protection, coverage, sampling error, and nonsampling error, see Appendix G.
For location of definitions, see "How to Use This Census Report"]

District of Columbia County Place	Civilian noninstitutionalized population with a disability			Percent of civilian noninstitutionalized population with specified disability							Percent employed of civilian noninstitutionalized population 21 to 64 years		
				5 years and over					16 years and over, going outside the home	16 to 64 years, employment disability		Disability status	
	5 years and over	16 to 64 years	65 years and over	Any disability	Sensory	Physical	Mental	Self-care			Total	With a disability	No disability
The State ……………………………	**115 980**	**82 850**	**28 280**	**21.9**	**3.2**	**8.0**	**4.9**	**3.0**	**11.0**	**13.5**	**68.9**	**52.8**	**73.4**
COUNTY													
District of Columbia …………………………	115 980	82 850	28 280	21.9	3.2	8.0	4.9	3.0	11.0	13.5	68.9	52.8	73.4
PLACE													
Washington city, District of Columbia ……………	115 980	82 850	28 280	21.9	3.2	8.0	4.9	3.0	11.0	13.5	68.9	52.8	73.4

Summary Social, Economic, and Housing Characteristics

Table 7. **Employment Status and Journey to Work: 2000**

[Data based on a sample (except Tables 65-68). For information on confidentiality protection, coverage, sampling error, and nonsampling error, see Appendix G.
For location of definitions, see "How to Use This Census Report"]

District of Columbia County Place	Population 16 years and over										Females with own children under 6 years		Own children under 6 years, all parents in family in labor force
			Labor force										
			Percent in labor force		Civilian labor force		Workers						
								Means of transportation to work					
	Total	Female	Total	Female	Number	Percent un-employed	Number	Percent using car, truck, or van	Percent in carpools	Percent using public trans-portation	Number	Percent in labor force	
The State	**469 041**	**252 087**	**63.6**	**60.2**	**294 952**	**10.8**	**260 884**	**49.4**	**11.0**	**33.2**	**25 499**	**64.9**	**21 779**
District of Columbia	469 041	252 087	63.6	60.2	294 952	10.8	260 884	49.4	11.0	33.2	25 499	64.9	21 779
Washington city	469 041	252 087	63.6	60.2	294 952	10.8	260 884	49.4	11.0	33.2	25 499	64.9	21 779

Table 8. Employment Status and Journey to Work: 2000

[Data based on a sample (except Tables 65-68). For information on confidentiality protection, coverage, sampling error, and nonsampling error, see Appendix G.
For location of definitions, see "How to Use This Census Report"]

District of Columbia County Place	Population 16 years and over											Females with own children under 6 years		Own children under 6 years, all parents in family in labor force
			Labor force											
			Percent in labor force		Civilian labor force		Workers							
								Means of transportation to work					
	Total	Female	Total	Female	Number	Percent un-employed	Number	Percent using car, truck, or van	Percent in carpools	Percent using public trans-portation	Number	Percent in labor force	
The State ………………………………	469 041	252 087	63.6	60.2	294 952	10.8	260 884	49.4	11.0	33.2	25 499	64.9	21 779
COUNTY													
District of Columbia ………………………	469 041	252 087	63.6	60.2	294 952	10.8	260 884	49.4	11.0	33.2	25 499	64.9	21 779
PLACE													
Washington city, District of Columbia ……………	469 041	252 087	63.6	60.2	294 952	10.8	260 884	49.4	11.0	33.2	25 499	64.9	21 779

Summary Social, Economic, and Housing Characteristics

Table 9. **Work Status and Income in 1999: 2000**

[Data based on a sample (except Tables 65-68). For information on confidentiality protection, coverage, sampling error, and nonsampling error, see Appendix G.
For location of definitions, see "How to Use This Census Report"]

District of Columbia County Place	Population 16 years and over, worked in 1999						Median income in 1999 (dollars)			Per capita income in 1999 (dollars)
	Total		Worked 40 or more weeks							
			Total		Full-time, year-round					
	Male	Female	Male	Female	Male	Female	Households	Families	Nonfamily households	
The State	**157 308**	**165 840**	**120 641**	**121 419**	**92 985**	**87 733**	**40 127**	**46 283**	**34 130**	**28 659**
District of Columbia	157 308	165 840	120 641	121 419	92 985	87 733	40 127	46 283	34 130	28 659
Washington city	157 308	165 840	120 641	121 419	92 985	87 733	40 127	46 283	34 130	28 659

Summary Social, Economic, and Housing Characteristics

District of Columbia 9

Table 10. Work Status and Income in 1999: 2000

[Data based on a sample (except Tables 65-68). For information on confidentiality protection, coverage, sampling error, and nonsampling error, see Appendix G.
For location of definitions, see "How to Use This Census Report"]

District of Columbia County Place	Population 16 years and over, worked in 1999						Median income in 1999 (dollars)			Per capita income in 1999 (dollars)
	Total		Worked 40 or more weeks							
			Total		Full-time, year-round					
	Male	Female	Male	Female	Male	Female	Households	Families	Nonfamily households	
The State	**157 308**	**165 840**	**120 641**	**121 419**	**92 985**	**87 733**	**40 127**	**46 283**	**34 130**	**28 659**
COUNTY										
District of Columbia	157 308	165 840	120 641	121 419	92 985	87 733	40 127	46 283	34 130	28 659
PLACE										
Washington city, District of Columbia	157 308	165 840	120 641	121 419	92 985	87 733	40 127	46 283	34 130	28 659

Summary Social, Economic, and Housing Characteristics

Table 11. **Earnings in 1999 of Full-Time, Year-Round Workers, by Sex: 2000**

[Data based on a sample (except Tables 65-68). For information on confidentiality protection, coverage, sampling error, and nonsampling error, see Appendix G. For location of definitions, see "How to Use This Census Report"]

District of Columbia County Place	Male						Female					
			Earnings in 1999						Earnings in 1999			
	Workers with earnings	Median earnings in 1999 (dollars)	$1 to $24,999 or loss	$25,000 to $49,999	$50,000 to $99,999	$100,000 or more	Workers with earnings	Median earnings in 1999 (dollars)	$1 to $24,999 or loss	$25,000 to $49,999	$50,000 to $99,999	$100,000 or more
The State	**92 985**	**40 513**	**21 557**	**34 383**	**24 954**	**12 091**	**87 705**	**36 361**	**21 624**	**39 153**	**21 648**	**5 280**
District of Columbia	92 985	40 513	21 557	34 383	24 954	12 091	87 705	36 361	21 624	39 153	21 648	5 280
Washington city	92 985	40 513	21 557	34 383	24 954	12 091	87 705	36 361	21 624	39 153	21 648	5 280

Table 12. Earnings in 1999 of Full-Time, Year-Round Workers, by Sex: 2000

[Data based on a sample (except Tables 65-68). For information on confidentiality protection, coverage, sampling error, and nonsampling error, see Appendix G.
For location of definitions, see "How to Use This Census Report"]

District of Columbia County Place	Male						Female					
			Earnings in 1999						Earnings in 1999			
	Workers with earnings	Median earnings in 1999 (dollars)	$1 to $24,999 or loss	$25,000 to $49,999	$50,000 to $99,999	$100,000 or more	Workers with earnings	Median earnings in 1999 (dollars)	$1 to $24,999 or loss	$25,000 to $49,999	$50,000 to $99,999	$100,000 or more
The State ………………………	**92 985**	**40 513**	**21 557**	**34 383**	**24 954**	**12 091**	**87 705**	**36 361**	**21 624**	**39 153**	**21 648**	**5 280**
COUNTY												
District of Columbia …………………	92 985	40 513	21 557	34 383	24 954	12 091	87 705	36 361	21 624	39 153	21 648	5 280
PLACE												
Washington city, District of Columbia …………	92 985	40 513	21 557	34 383	24 954	12 091	87 705	36 361	21 624	39 153	21 648	5 280

Summary Social, Economic, and Housing Characteristics

Table 13. Household Income in 1999: 2000

[Data based on a sample (except Tables 65-68). For information on confidentiality protection, coverage, sampling error, and nonsampling error, see Appendix G.
For location of definitions, see "How to Use This Census Report"]

District of Columbia County Place	Total households	Median income in 1999 (dollars)	Household income in 1999								Percent of households with income in 1999 of $100,000 or more
			Less than $10,000	$10,000 to $24,999	$25,000 to $49,999	$50,000 to $74,999	$75,000 to $99,999	$100,000 to $149,999	$150,000 to $199,999	$200,000 or more	
The State	248 590	40 127	36 939	43 037	65 903	39 553	22 437	20 790	8 292	11 639	16.4
District of Columbia	248 590	40 127	36 939	43 037	65 903	39 553	22 437	20 790	8 292	11 639	16.4
Washington city	248 590	40 127	36 939	43 037	65 903	39 553	22 437	20 790	8 292	11 639	16.4

U.S. Census Bureau, Census 2000

Table 14. **Household Income in 1999: 2000**

[Data based on a sample (except Tables 65-68). For information on confidentiality protection, coverage, sampling error, and nonsampling error, see Appendix G.
For location of definitions, see "How to Use This Census Report"]

District of Columbia County Place	Total households	Median income in 1999 (dollars)	Household income in 1999								Percent of households with income in 1999 of $100,000 or more
			Less than $10,000	$10,000 to $24,999	$25,000 to $49,999	$50,000 to $74,999	$75,000 to $99,999	$100,000 to $149,999	$150,000 to $199,999	$200,000 or more	
The State	**248 590**	**40 127**	**36 939**	**43 037**	**65 903**	**39 553**	**22 437**	**20 790**	**8 292**	**11 639**	**16.4**
COUNTY											
District of Columbia	248 590	40 127	36 939	43 037	65 903	39 553	22 437	20 790	8 292	11 639	16.4
PLACE											
Washington city, District of Columbia	248 590	40 127	36 939	43 037	65 903	39 553	22 437	20 790	8 292	11 639	16.4

Summary Social, Economic, and Housing Characteristics

Table 15. **Poverty Status in 1999: 2000**

[Data based on a sample (except Tables 65-68). For information on confidentiality protection, coverage, sampling error, and nonsampling error, see Appendix G.
For location of definitions, see "How to Use This Census Report"]

District of Columbia County Place		Population for whom poverty status is determined								Families with income in 1999 below poverty level			
			Income in 1999 below poverty level							All families		Families with female householder, no husband present, with related children under 18 years	
			All ages		Related children				Population 65 years and over					
					Under 18 years		5 to 17 years							
	Total	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
The State	**541 657**	**109 500**	**20.2**	**34 350**	**31.1**	**23 940**	**30.4**	**10 887**	**16.4**	**19 365**	**16.7**	**12 184**	**37.3**
District of Columbia	541 657	109 500	20.2	34 350	31.1	23 940	30.4	10 887	16.4	19 365	16.7	12 184	37.3
Washington city	541 657	109 500	20.2	34 350	31.1	23 940	30.4	10 887	16.4	19 365	16.7	12 184	37.3

Table 16. Poverty Status in 1999: 2000

[Data based on a sample (except Tables 65-68). For information on confidentiality protection, coverage, sampling error, and nonsampling error, see Appendix G. For location of definitions, see "How to Use This Census Report"]

District of Columbia County Place	Population for whom poverty status is determined									Families with income in 1999 below poverty level			
		Income in 1999 below poverty level								All families		Families with female householder, no husband present, with related children under 18 years	
		All ages		Related children				Population 65 years and over					
				Under 18 years		5 to 17 years							
	Total	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
The State	**541 657**	**109 500**	**20.2**	**34 350**	**31.1**	**23 940**	**30.4**	**10 887**	**16.4**	**19 365**	**16.7**	**12 184**	**37.3**
COUNTY													
District of Columbia	541 657	109 500	20.2	34 350	31.1	23 940	30.4	10 887	16.4	19 365	16.7	12 184	37.3
PLACE													
Washington city, District of Columbia	541 657	109 500	20.2	34 350	31.1	23 940	30.4	10 887	16.4	19 365	16.7	12 184	37.3

Summary Social, Economic, and Housing Characteristics

Table 17. **Units in Structure: 2000**

[Data based on a sample (except Tables 65-68). For information on confidentiality protection, coverage, sampling error, and nonsampling error, see Appendix G.
For location of definitions, see "How to Use This Census Report"]

District of Columbia County Place	Total housing units	Units in structure								
		1 unit, detached	1 unit, attached	2 to 4 units	5 to 9 units	10 to 19 units	20 to 49 units	50 or more units	Mobile home	Boat, RV, van, etc.
The State …………………………	**274 845**	**36 331**	**72 668**	**30 248**	**21 735**	**28 429**	**20 585**	**64 362**	**203**	**284**
District of Columbia …………………………	274 845	36 331	72 668	30 248	21 735	28 429	20 585	64 362	203	284
Washington city …………………………	274 845	36 331	72 668	30 248	21 735	28 429	20 585	64 362	203	284

Table 18. Units in Structure: 2000

[Data based on a sample (except Tables 65-68). For information on confidentiality protection, coverage, sampling error, and nonsampling error, see Appendix G.
For location of definitions, see "How to Use This Census Report"]

District of Columbia County Place	Total housing units	Units in structure								
		1 unit, detached	1 unit, attached	2 to 4 units	5 to 9 units	10 to 19 units	20 to 49 units	50 or more units	Mobile home	Boat, RV, van, etc.
The State	**274 845**	**36 331**	**72 668**	**30 248**	**21 735**	**28 429**	**20 585**	**64 362**	**203**	**284**
COUNTY										
District of Columbia	274 845	36 331	72 668	30 248	21 735	28 429	20 585	64 362	203	284
PLACE										
Washington city, District of Columbia	274 845	36 331	72 668	30 248	21 735	28 429	20 585	64 362	203	284

Summary Social, Economic, and Housing Characteristics

Table 19. Physical Housing Characteristics: 2000

[Data based on a sample (except Tables 65-68). For information on confidentiality protection, coverage, sampling error, and nonsampling error, see Appendix G. For location of definitions, see "How to Use This Census Report"]

District of Columbia County Place	Total housing units	Year structure built			Rooms			No bedrooms or 1 bedroom	Lacking complete plumbing facilities	Lacking complete kitchen facilities
		1995 to March 2000	1939 or earlier	Median	1 or 2	6 or more	Median			
The State	**274 845**	**3 809**	**95 056**	**1 949**	**60 935**	**86 677**	**4.0**	**120 995**	**3 766**	**3 574**
District of Columbia	274 845	3 809	95 056	1 949	60 935	86 677	4.0	120 995	3 766	3 574
Washington city	274 845	3 809	95 056	1 949	60 935	86 677	4.0	120 995	3 766	3 574

Table 20. Physical Housing Characteristics: 2000

[Data based on a sample (except Tables 65-68). For information on confidentiality protection, coverage, sampling error, and nonsampling error, see Appendix G. For location of definitions, see "How to Use This Census Report"]

District of Columbia County Place	Total housing units	Year structure built			Rooms			No bedrooms or 1 bedroom	Lacking complete plumbing facilities	Lacking complete kitchen facilities
		1995 to March 2000	1939 or earlier	Median	1 or 2	6 or more	Median			
The State	**274 845**	**3 809**	**95 056**	**1 949**	**60 935**	**86 677**	**4.0**	**120 995**	**3 766**	**3 574**
COUNTY										
District of Columbia	274 845	3 809	95 056	1 949	60 935	86 677	4.0	120 995	3 766	3 574
PLACE										
Washington city, District of Columbia	274 845	3 809	95 056	1 949	60 935	86 677	4.0	120 995	3 766	3 574

Table 21. Fuels and Equipment Characteristics: 2000

[Data based on a sample (except Tables 65-68). For information on confidentiality protection, coverage, sampling error, and nonsampling error, see Appendix G.
For location of definitions, see "How to Use This Census Report"]

District of Columbia County Place	Occupied housing units	House heating fuel					Vehicles available			Percent no telephone service available
		Utility gas	Electricity	Fuel oil, kerosene, etc.	Coal or coke, wood, solar energy, or other fuel	None	None	1	2 or more	
The State	248 338	162 467	60 016	17 047	1 927	2 473	91 699	108 151	48 488	2.5
District of Columbia	248 338	162 467	60 016	17 047	1 927	2 473	91 699	108 151	48 488	2.5
Washington city	248 338	162 467	60 016	17 047	1 927	2 473	91 699	108 151	48 488	2.5

Table 22. **Fuels and Equipment Characteristics: 2000**

[Data based on a sample (except Tables 65-68). For information on confidentiality protection, coverage, sampling error, and nonsampling error, see Appendix G.
For location of definitions, see "How to Use This Census Report"]

District of Columbia County Place	Occupied housing units	House heating fuel					Vehicles available			Percent no telephone service available
		Utility gas	Electricity	Fuel oil, kerosene, etc.	Coal or coke, wood, solar energy, or other fuel	None	None	1	2 or more	
The State ………………………………	248 338	162 467	60 016	17 047	1 927	2 473	91 699	108 151	48 488	2.5
COUNTY										
District of Columbia …………………………	248 338	162 467	60 016	17 047	1 927	2 473	91 699	108 151	48 488	2.5
PLACE										
Washington city, District of Columbia ……………	248 338	162 467	60 016	17 047	1 927	2 473	91 699	108 151	48 488	2.5

Table 23. Owner and Renter Household Characteristics: 2000

[Data based on a sample (except Tables 65-68). For information on confidentiality protection, coverage, sampling error, and nonsampling error, see Appendix G.
For location of definitions, see "How to Use This Census Report"]

District of Columbia County Place	Occupied housing units	Owner-occupied housing units					Renter-occupied housing units				
		Average household size	Occupants per room	Year householder moved into unit		Percent 1 unit, detached or attached	Average household size	Occupants per room	Year householder moved into unit		Percent 5 or more units in structure
				1999 to March 2000	1969 or earlier				1999 to March 2000	1969 or earlier	
The State	**248 338**	**2.34**	**0.37**	**10 638**	**22 768**	**78.6**	**2.03**	**0.62**	**46 266**	**5 584**	**70.4**
District of Columbia	248 338	2.34	0.37	10 638	22 768	78.6	2.03	0.62	46 266	5 584	70.4
Washington city	248 338	2.34	0.37	10 638	22 768	78.6	2.03	0.62	46 266	5 584	70.4

Table 24. **Owner and Renter Household Characteristics: 2000**

[Data based on a sample (except Tables 65-68). For information on confidentiality protection, coverage, sampling error, and nonsampling error, see Appendix G.
For location of definitions, see "How to Use This Census Report"]

District of Columbia County Place	Occupied housing units	Owner-occupied housing units					Renter-occupied housing units				
		Average household size	Occupants per room	Year householder moved into unit		Percent 1 unit, detached or attached	Average household size	Occupants per room	Year householder moved into unit		Percent 5 or more units in structure
				1999 to March 2000	1969 or earlier				1999 to March 2000	1969 or earlier	
The State	**248 338**	**2.34**	**0.37**	**10 638**	**22 768**	**78.6**	**2.03**	**0.62**	**46 266**	**5 584**	**70.4**
COUNTY											
District of Columbia	248 338	2.34	0.37	10 638	22 768	78.6	2.03	0.62	46 266	5 584	70.4
PLACE											
Washington city, District of Columbia	248 338	2.34	0.37	10 638	22 768	78.6	2.03	0.62	46 266	5 584	70.4

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Table 25. **Home Value: 2000**

[Data based on a sample (except Tables 65-68). For information on confidentiality protection, coverage, sampling error, and nonsampling error, see Appendix G.
For location of definitions, see "How to Use This Census Report"]

District of Columbia County Place	Specified owner-occupied housing units	Value of home							Median (dollars)
		Less than $50,000	$50,000 to $99,999	$100,000 to $149,999	$150,000 to $199,999	$200,000 to $299,999	$300,000 to $499,999	$500,000 or more	
The State …………………………	**76 289**	**646**	**13 574**	**21 954**	**11 261**	**8 631**	**11 977**	**8 246**	**157 200**
District of Columbia ………………………	76 289	646	13 574	21 954	11 261	8 631	11 977	8 246	157 200
Washington city …………………………	76 289	646	13 574	21 954	11 261	8 631	11 977	8 246	157 200

Table 26. **Home Value: 2000**

[Data based on a sample (except Tables 65-68). For information on confidentiality protection, coverage, sampling error, and nonsampling error, see Appendix G.
For location of definitions, see "How to Use This Census Report"]

District of Columbia County Place	Specified owner-occupied housing units	Value of home							Median (dollars)
		Less than $50,000	$50,000 to $99,999	$100,000 to $149,999	$150,000 to $199,999	$200,000 to $299,999	$300,000 to $499,999	$500,000 or more	
The State ……………………………	**76 289**	**646**	**13 574**	**21 954**	**11 261**	**8 631**	**11 977**	**8 246**	**157 200**
COUNTY									
District of Columbia ………………………………	76 289	646	13 574	21 954	11 261	8 631	11 977	8 246	157 200
PLACE									
Washington city, District of Columbia ……………	76 289	646	13 574	21 954	11 261	8 631	11 977	8 246	157 200

Summary Social, Economic, and Housing Characteristics

Table 27. **Selected Monthly Owner Costs: 2000**

[Data based on a sample (except Tables 65-68). For information on confidentiality protection, coverage, sampling error, and nonsampling error, see Appendix G. For location of definitions, see "How to Use This Census Report"]

District of Columbia County Place	Specified owner-occupied housing units	Selected monthly owner costs							
		Less than $200	$200 to $299	$300 to $399	$400 to $499	$500 to $599	$600 to $799	$800 to $999	$1,000 or more
The State	**76 289**	**3 848**	**6 402**	**4 899**	**3 702**	**3 309**	**6 661**	**8 156**	**39 312**
District of Columbia	76 289	3 848	6 402	4 899	3 702	3 309	6 661	8 156	39 312
Washington city	76 289	3 848	6 402	4 899	3 702	3 309	6 661	8 156	39 312

Table 28. **Selected Monthly Owner Costs: 2000**

[Data based on a sample (except Tables 65-68). For information on confidentiality protection, coverage, sampling error, and nonsampling error, see Appendix G.
For location of definitions, see "How to Use This Census Report"]

District of Columbia County Place	Specified owner-occupied housing units	Selected monthly owner costs							
		Less than $200	$200 to $299	$300 to $399	$400 to $499	$500 to $599	$600 to $799	$800 to $999	$1,000 or more
The State	**76 289**	**3 848**	**6 402**	**4 899**	**3 702**	**3 309**	**6 661**	**8 156**	**39 312**
COUNTY									
District of Columbia	76 289	3 848	6 402	4 899	3 702	3 309	6 661	8 156	39 312
PLACE									
Washington city, District of Columbia	76 289	3 848	6 402	4 899	3 702	3 309	6 661	8 156	39 312

Summary Social, Economic, and Housing Characteristics

Table 29. **Gross Rent: 2000**

[Data based on a sample (except Tables 65-68). For information on confidentiality protection, coverage, sampling error, and nonsampling error, see Appendix G.
For location of definitions, see "How to Use This Census Report"]

District of Columbia County Place	Specified renter-occupied housing units paying cash rent	Gross rent							Median (dollars)
		Less than $250	$250 to $499	$500 to $749	$750 to $999	$1,000 to $1,499	$1,500 to $1,999	$2,000 or more	
The State	**142 784**	**16 269**	**28 466**	**50 678**	**24 710**	**15 263**	**4 545**	**2 853**	**618**
District of Columbia	142 784	16 269	28 466	50 678	24 710	15 263	4 545	2 853	618
Washington city	142 784	16 269	28 466	50 678	24 710	15 263	4 545	2 853	618

Table 30. Gross Rent: 2000

[Data based on a sample (except Tables 65-68). For information on confidentiality protection, coverage, sampling error, and nonsampling error, see Appendix G.
For location of definitions, see "How to Use This Census Report"]

District of Columbia County Place	Specified renter-occupied housing units paying cash rent	Gross rent							Median (dollars)
		Less than $250	$250 to $499	$500 to $749	$750 to $999	$1,000 to $1,499	$1,500 to $1,999	$2,000 or more	
The State	**142 784**	**16 269**	**28 466**	**50 678**	**24 710**	**15 263**	**4 545**	**2 853**	**618**
COUNTY									
District of Columbia	142 784	16 269	28 466	50 678	24 710	15 263	4 545	2 853	618
PLACE									
Washington city, District of Columbia	142 784	16 269	28 466	50 678	24 710	15 263	4 545	2 853	618

Summary Social, Economic, and Housing Characteristics

Table 31. **Mortgage and Rental Cost Characteristics: 2000**

[Data based on a sample (except Tables 65-68). For information on confidentiality protection, coverage, sampling error, and nonsampling error, see Appendix G.
For location of definitions, see "How to Use This Census Report"]

| District of Columbia County Place | | Specified owner-occupied housing units | | | | | | | Specified renter-occupied housing units paying cash rent | | |
| | | With a mortgage | | | | Not mortgaged | | | | | |
	Total	Total	Median selected monthly owner costs (dollars)	Median selected monthly owner costs as a percentage of household income in 1999	With a second mortgage or home equity loan or both	Total	Median selected monthly owner costs (dollars)	Median selected monthly owner costs as a percentage of household income in 1999	Total	With meals included in rent	Median gross rent as a percentage of household income in 1999
The State ……………………………	**76 289**	**55 138**	**1 291**	**22.2**	**14 615**	**21 151**	**313**	**10.0-**	**142 784**	**1 575**	**24.8**
District of Columbia …………………………	76 289	55 138	1 291	22.2	14 615	21 151	313	10.0-	142 784	1 575	24.8
Washington city …………………………	76 289	55 138	1 291	22.2	14 615	21 151	313	10.0-	142 784	1 575	24.8

Table 32. **Mortgage and Rental Cost Characteristics: 2000**

[Data based on a sample (except Tables 65-68). For information on confidentiality protection, coverage, sampling error, and nonsampling error, see Appendix G.
For location of definitions, see "How to Use This Census Report"]

District of Columbia County Place		Specified owner-occupied housing units							Specified renter-occupied housing units paying cash rent		
		With a mortgage				Not mortgaged					
	Total	Total	Median selected monthly owner costs (dollars)	Median selected monthly owner costs as a percentage of household income in 1999	With a second mortgage or home equity loan or both	Total	Median selected monthly owner costs (dollars)	Median selected monthly owner costs as a percentage of household income in 1999	Total	With meals included in rent	Median gross rent as a percentage of household income in 1999
The State ……………………………	**76 289**	**55 138**	**1 291**	**22.2**	**14 615**	**21 151**	**313**	**10.0-**	**142 784**	**1 575**	**24.8**
COUNTY											
District of Columbia …………………………	76 289	55 138	1 291	22.2	14 615	21 151	313	10.0-	142 784	1 575	24.8
PLACE											
Washington city, District of Columbia ……………	76 289	55 138	1 291	22.2	14 615	21 151	313	10.0-	142 784	1 575	24.8

Table 33. **Place of Birth, Residence in 1995, and Language for the American Indian and Alaska Native Population (One Race): 2000**

[The above table was omitted because there were no qualifying areas.]

Table 34. **Education and Veteran Status for the American Indian and Alaska Native Population (One Race): 2000**

[The above table was omitted because there were no qualifying areas.]

Table 35. **Disability Status for the American Indian and Alaska Native Population (One Race): 2000**

[The above table was omitted because there were no qualifying areas.]

Table 36. **Employment Status and Journey to Work for the American Indian and Alaska Native Population (One Race): 2000**

[The above table was omitted because there were no qualifying areas.]

Table 37. **Work Status and Income in 1999 for the American Indian and Alaska Native Population (One Race): 2000**

[The above table was omitted because there were no qualifying areas.]

Table 38. **Earnings in 1999 of Full-Time, Year-Round Workers, by Sex for the American Indian and Alaska Native Population (One Race): 2000**

[The above table was omitted because there were no qualifying areas.]

Table 39. **Income in 1999 of Households With an American Indian and Alaska Native Householder (One Race): 2000**

[The above table was omitted because there were no qualifying areas.]

Table 40. **Poverty Status in 1999 for the American Indian and Alaska Native Population (One Race): 2000**

[The above table was omitted because there were no qualifying areas.]

Table 41. **Units in Structure: 2000**

[The above table was omitted because there were no qualifying areas.]

Table 42. **Physical Housing Characteristics: 2000**

[The above table was omitted because there were no qualifying areas.]

Table 43. **Selected Equipment Characteristics of Housing Units With an American Indian and Alaska Native Householder (One Race): 2000**

[The above table was omitted because there were no qualifying areas.]

Table 44. **Year Householder Moved into Unit for Housing Units With an American Indian and Alaska Native Householder (One Race): 2000**

[The above table was omitted because there were no qualifying areas.]

Table 45. **Home Value of Housing Units With an American Indian and Alaska Native Householder (One Race): 2000**

[The above table was omitted because there were no qualifying areas.]

Table 46. **Selected Monthly Owner Costs of Housing Units With an American Indian and Alaska Native Householder (One Race): 2000**

[The above table was omitted because there were no qualifying areas.]

Table 47. **Gross Rent of Housing Units With an American Indian and Alaska Native Householder (One Race): 2000**

[The above table was omitted because there were no qualifying areas.]

Table 48. **Selected Mortgage and Rental Cost Characteristics of Housing Units With an American Indian and Alaska Native Householder (One Race): 2000**

[The above table was omitted because there were no qualifying areas.]

Table 49. **Place of Birth, Residence in 1995, and Language for the Native Hawaiian and Other Pacific Islander Population (One Race): 2000**

[The above table was omitted because there were no qualifying areas.]

Table 50. **Education and Veteran Status for the Native Hawaiian and Other Pacific Islander Population (One Race): 2000**

[The above table was omitted because there were no qualifying areas.]

Table 51. **Disability Status for the Native Hawaiian and Other Pacific Islander Population (One Race): 2000**

[The above table was omitted because there were no qualifying areas.]

Table 52. **Employment Status and Journey to Work for the Native Hawaiian and Other Pacific Islander Population (One Race): 2000**

[The above table was omitted because there were no qualifying areas.]

Table 53. **Work Status and Income in 1999 for the Native Hawaiian and Other Pacific Islander Population (One Race): 2000**

[The above table was omitted because there were no qualifying areas.]

Table 54. **Earnings in 1999 of Full-Time, Year-Round Workers, by Sex for the Native Hawaiian and Other Pacific Islander Population (One Race): 2000**

[The above table was omitted because there were no qualifying areas.]

Table 55. **Income in 1999 of Households With a Native Hawaiian and Other Pacific Islander Householder (One Race): 2000**

[The above table was omitted because there were no qualifying areas.]

Table 56. **Poverty Status in 1999 for the Native Hawaiian and Other Pacific Islander Population (One Race): 2000**

[The above table was omitted because there were no qualifying areas.]

Table 57. **Units in Structure: 2000**

[The above table was omitted because there were no qualifying areas.]

Table 58. **Physical Housing Characteristics: 2000**

[The above table was omitted because there were no qualifying areas.]

Table 59. **Selected Equipment Characteristics of Housing Units With a Native Hawaiian and Other Pacific Islander Householder (One Race): 2000**

[The above table was omitted because there were no qualifying areas.]

Table 60. **Year Householder Moved into Unit for Housing Units With a Native Hawaiian and Other Pacific Islander Householder (One Race): 2000**

[The above table was omitted because there were no qualifying areas.]

Table 61. **Home Value of Housing Units With a Native Hawaiian and Other Pacific Islander Householder (One Race): 2000**

[The above table was omitted because there were no qualifying areas.]

Table 62. **Selected Monthly Owner Costs of Housing Units With a Native Hawaiian and Other Pacific Islander Householder (One Race): 2000**

[The above table was omitted because there were no qualifying areas.]

Table 63. **Gross Rent of Housing Units With a Native Hawaiian and Other Pacific Islander Householder (One Race): 2000**

[The above table was omitted because there were no qualifying areas.]

Table 64. **Selected Mortgage and Rental Cost Characteristics of Housing Units With a Native Hawaiian and Other Pacific Islander Householder (One Race): 2000**

[The above table was omitted because there were no qualifying areas.]

Table 65. **Percent of Population and Housing Units in Sample: 2000**

[Data based on a sample (except Tables 65-68). For information on confidentiality protection, coverage, sampling error, and nonsampling error, see Appendix G. For location of definitions, see "How to Use This Census Report"]

District of Columbia County Place	Population		Housing units	
	100-percent count	Percent in sample	100-percent count	Percent in sample
The State	**572 059**	**12.6**	**274 845**	**12.8**
District of Columbia	572 059	12.6	274 845	12.8
Washington city	572 059	12.6	274 845	12.8

Table 66. **Percent of Population and Housing Units in Sample: 2000**

[Data based on a sample (except Tables 65-68). For information on confidentiality protection, coverage, sampling error, and nonsampling error, see Appendix G.
For location of definitions, see "How to Use This Census Report"]

District of Columbia County Place	Population		Housing units	
	100-percent count	Percent in sample	100-percent count	Percent in sample
The State ……………………………	**572 059**	**12.6**	**274 845**	**12.8**
COUNTY				
District of Columbia ………………………	572 059	12.6	274 845	12.8
PLACE				
Washington city, District of Columbia ……………	572 059	12.6	274 845	12.8

Summary Social, Economic, and Housing Characteristics

Table 67. **Percent of Population and Housing Units in Sample: 2000**

[The above table was omitted because there were no qualifying areas.]

Table 68. **Percent of Population and Housing Units in Sample: 2000**

[The above table was omitted because there were no qualifying areas.]

Appendixes

Several appendixes traditionally found in printed reports are now available in a separate volume. See PHC-2-A, *Summary Social, Economic, and Housing Characteristics, Selected Appendixes,* in print or on the Internet at http://www.census.gov/prod/cen2000/phc-2-a.pdf for the following:

Appendix A. Geographic Terms and Concepts
Appendix B. Definitions of Subject Characteristics
Appendix C. Data Collection and Processing Procedures
Appendix D. Questionnaire
Appendix E. Data Products and User Assistance
Appendix H. Acknowledgments

This Appendix section contains:

Appendix F. Maps
Appendix G. Accuracy of the Data

Appendix F.
Maps

District of Columbia

77°

39°   39°

MARYLAND

DISTRICT OF COLUMBIA

VIRGINIA

N

0   .5   1   1.5   2 Kilometers

0   .5   1   1.5   2 Miles

77°
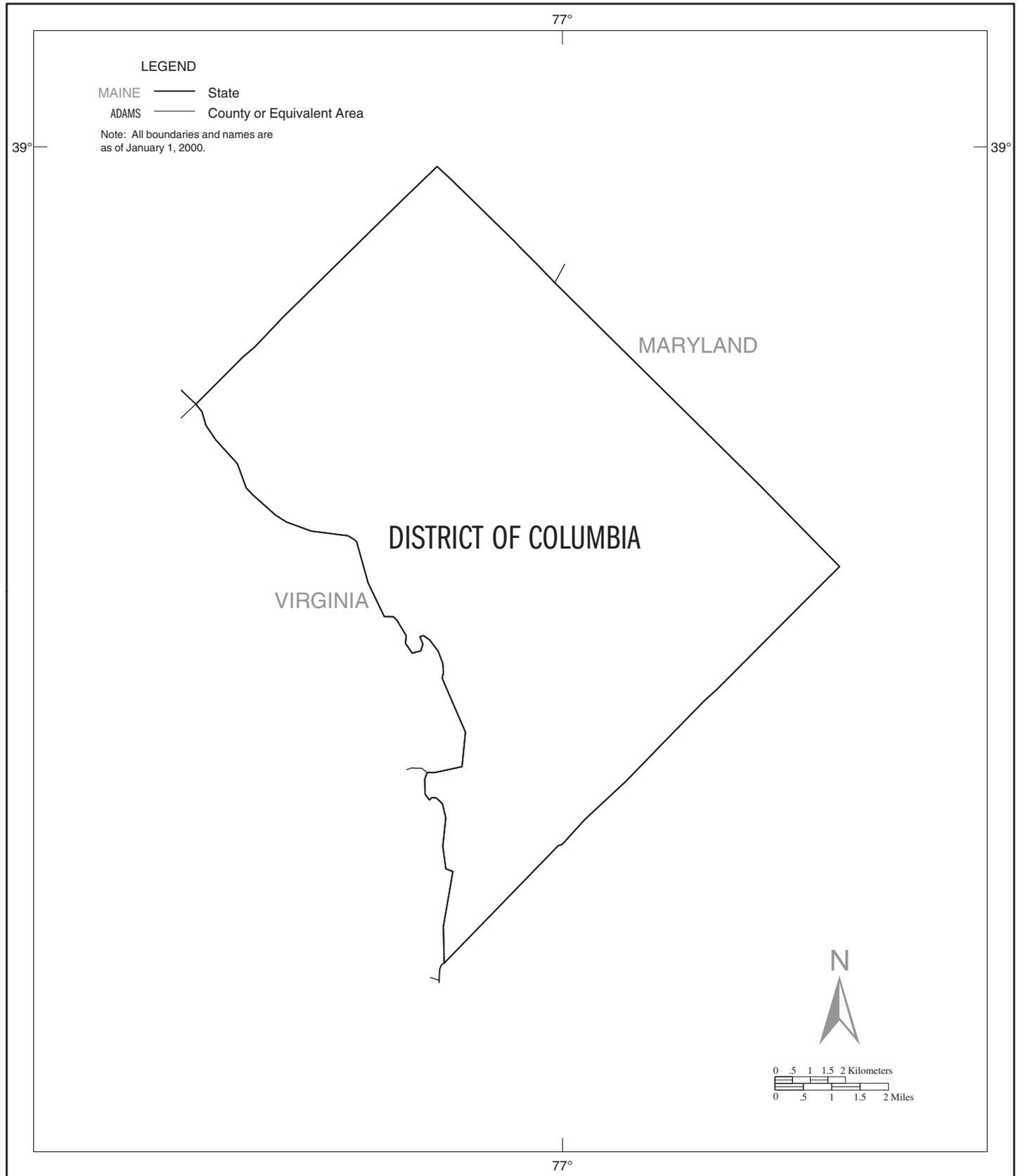
District of Columbia Outline Map Legend

Map Legend

— · — · — · —	State or Statistically Equivalent Entity
ERIE	County or Statistically Equivalent Entity
---------- ROME	Incorporated Place¹
Lake Erie	Large River, Lake, Water Body, or Shoreline
⌐——→	A fishhook joins contiguous and/or discontiguous parts of the same geographic entity

¹ The District of Columbia is statistically equivalent to a state and also treated as statistically equivalent to a county. Washington city is not divided into any subdivisions and thus serves as the statistical equivalent of a legal county subdivision. The boundaries and name for the county subdivision are the same as the city and not shown on the map.

Note: All legal boundaries and names are as of January 1, 2000. Where state, county, and/or county subdivision boundaries coincide, the map shows the boundary symbol for the highest level of these geographic entities. The county boundary is always shown. Where a county subdivision boundary coincides with a place boundary, the map does not show the place boundary symbol. Any geographic entity name may include '(pt.)' if some portion of the entity extends beyond the limits of the map area displayed on the page, or if multiple discontiguous pieces of the entity have been discretely labeled on the page. A geographic entity name may include '(pts.)' if many discontiguous pieces exist for that entity that cannot be discretely labeled. The boundaries shown on this map are for Census Bureau statistical data collection and tabulation purposes only; their depiction and designation for statistical purposes does not constitute a determination of jurisdictional authority or rights of ownership or entitlement.

Map Sections

1
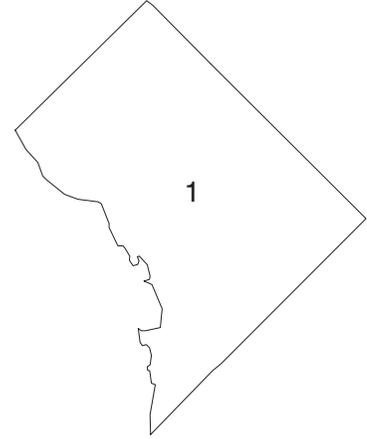
District of Columbia – Section 1

39° 00'

39° 00'

C I

C I

DISTRICT OF COLUMBIA

WASHINGTON

Potomac River

Anacostia River

C J

C J

N

0	800	1600	2400 Meters

0	2000	4000	6000	8000 Feet

77° 00'

Maps

District of Columbia F–3

U.S. Census Bureau, Census 2000
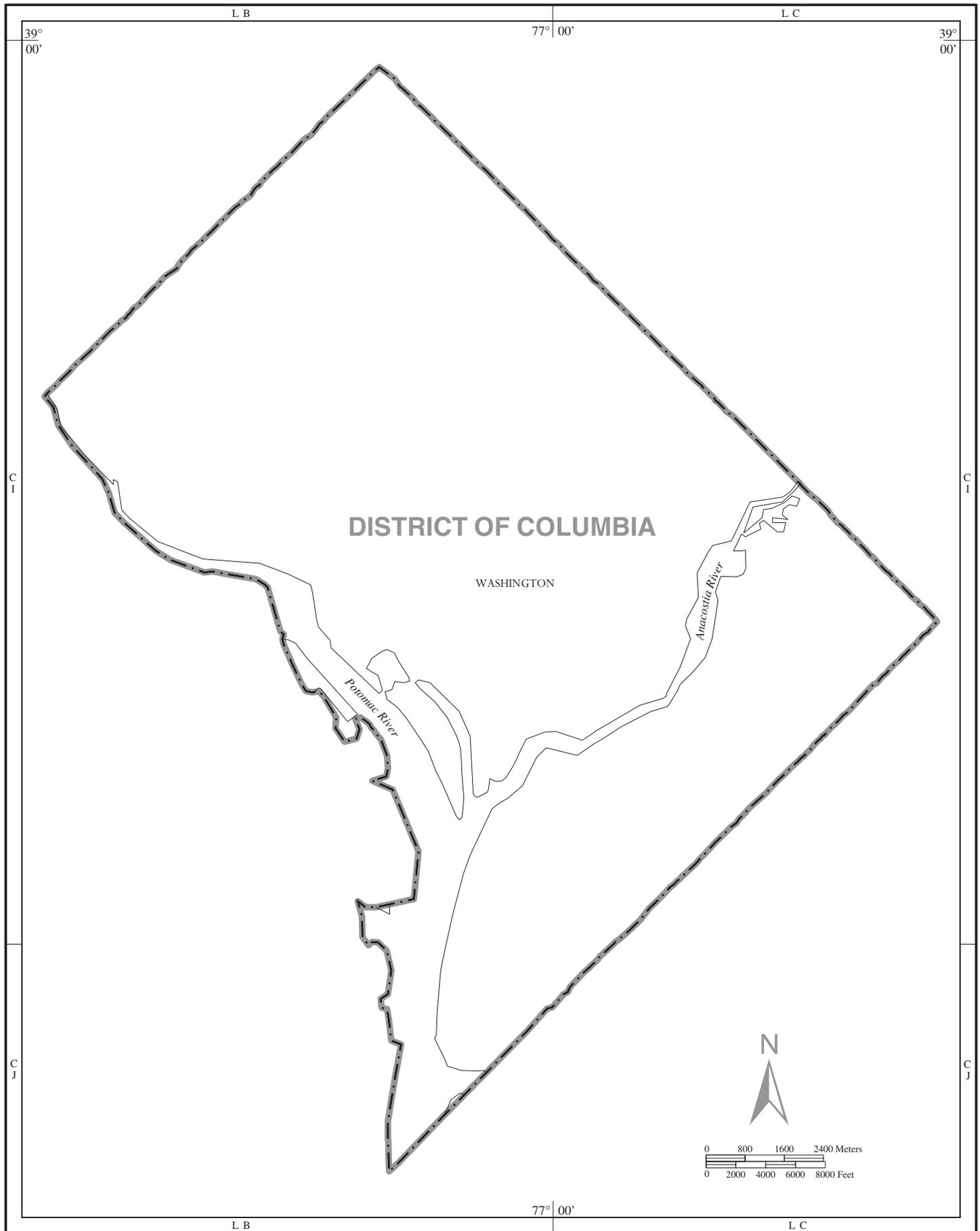
Appendix G.
Accuracy of the Data

INTRODUCTION

The data contained in this product are based on the Census 2000 sample. The data are estimates of the actual figures that would have been obtained from a complete count. Estimates derived from a sample are expected to be different from the 100-percent figures because they are subject to sampling and nonsampling errors. Sampling error in data arises from the selection of people and housing units included in the sample. Nonsampling error affects both sample and 100-percent data and is introduced as a result of errors that may occur during the data collection and processing phases of the census. This chapter provides a detailed discussion of both types of errors and a description of the estimation procedures.

MASTER ADDRESS FILE DEVELOPMENT

The majority of addresses in the country are in what is known for census purposes as Mailout/Mailback areas, which generally consist of city-style addresses. The original source of addresses on the Master Address File (MAF) for the Mailout/Mailback areas was the 1990 Census Address Control File (ACF). The first update to the ACF addresses is a United States Postal Service (USPS) Delivery Sequence File (DSF) of addresses. The November 1997, September 1998, November 1999, and April 2000 DSFs were incorporated into the MAF.

Until shortly before the census, the ACF addresses and the November 1997 and September 1998 residential DSF addresses constituted the MAF. These addresses were tested against Census Bureau geographic information to determine their location at the census block level. The geographic information is maintained in the Census Bureau's Topologically Integrated Geographic Encoding Referencing (TIGER) system. When an address on the MAF can be uniquely matched to the address range in TIGER for a street segment that forms one of the boundaries of a particular block, the address is said to be *geocoded* to that block. Valid and geocoded addresses appeared on each address list used for a field operation.

The Block Canvass operation was the next major address list operation in the Mailout/Mailback areas for Census 2000. Between January and May 1999, there was a 100-percent canvass of every block in these areas. Every geocoded address was printed in a block-by-block address register. Block Canvassing listers identified each address as one of the following: a verified housing unit; a unit with corrections to the street name or directional; a delete; a duplicate, implying the unit exists elsewhere on the list with a different, unmatchable designation, such as a different street name or building name; uninhabitable; or nonresidential. Also, units that were deleted from one block and matched an added unit in another block were called a move.

A cooperative address list check with local governmental units throughout the country, called Local Update of Census Addresses (LUCA) 98, occurred in approximately the same time frame as Block Canvassing. In LUCA 98, the participating governmental units received an address list and were asked for input mostly on added units but also on deleted units and corrected street names or directionals. The outcome of this operation was similar to that of Block Canvassing; units were added to and deleted from blocks, and address corrections were made.

The Decennial Master Address File (DMAF), created in July 1999, was the file used for the main printing of the Census 2000 questionnaires. In Mailout/Mailback areas, the operations that had yielded housing units and their status before this initial printing stage were the ACF, the November 1997 DSF, the September 1998 DSF, LUCA 98, and Block Canvassing.

Updates to the DMAF followed the creation of the initial DMAF. Addresses were added by the November 1999, February 2000, and April 2000 DSFs. The LUCA 98 field verification and appeal processes were address update operations that occurred subsequent to the creation of the initial

DMAF. Units receiving a conflicting status from Block Canvassing and the LUCA 98 operation were sent for field verification by the Census Bureau; the results of the field verification were sent to the governmental units. The governmental unit could appeal the Census Bureau's findings for particular units at this stage. At an appeal, the Census Bureau and the governmental unit submit their evidence of the status of a housing unit for independent review. The Census Address List Appeals Office, a temporary Federal office established outside the Department of Commerce, administered the appeal process. The Director of the Appeals Office (or their designee) was responsible for issuing a written determination that was considered final. Both the field verification and the appeal process had the potential to change the status of a housing unit.

The New Construction operation was another cooperative effort with participating governmental units that added addresses before Census Day. This was a final operation in Mailout/Mailback areas that used governmental units' local knowledge to identify new housing units in February and March of 2000.

After Mailout/Mailback, the second most common method of questionnaire delivery was Update/Leave. Rather than obtaining addresses from the ACF and DSF, the address list for Update/Leave areas was constructed during a Census Bureau field operation called Address Listing. This was due to the fact that addresses in Update/Leave areas were primarily noncity-style. Census employees were sent to the field with maps of their assignment areas and were instructed to record the city-style address, noncity-style address or location description, or possibly some combination of the above, for every housing unit. In addition, the location of the unit was noted on the census map with what is known as a *map spot*. This operation took place in the fall of 1998.

After processing the Address Listing data, the Census Bureau could tabulate the number of housing units in each block. Because the housing units in these areas may have nonstandard mailing addresses and may be recorded in census files solely with a location description, the governmental units participating in the local review operation in these areas were sent lists of housing unit counts by block. This operation was called LUCA 99. When a LUCA 99 participant disagreed with a Census block count, the contested block was sent out for LUCA 99 recanvassing. Census employees were redeployed to make updates to the address list. In addition, there was a LUCA 99 appeal process for settling housing unit status discrepancies that could potentially add units to the address list. The LUCA 99 recanvassing and LUCA 99 appeal process took place at various times during the DMAF updating process. Although most of the LUCA 99 entities had their recanvassing results processed before creation of the initial DMAF, many did not. There were DMAF updates designed specifically for obtaining late recanvassing and appeal results. These updates to the census files occurred in time for USPS delivery of a questionnaire.

The last address list-building operation in the Update/Leave areas was the Update/Leave operation itself. This operation was responsible for having a census questionnaire hand-delivered at every housing unit. The MAF and the maps were updated during this process.

In the most remote regions of the country, housing units were listed at the same time people within them were enumerated for Census 2000. These operations, called List/Enumerate and Remote Alaska enumeration, were the only source of addresses in these regions. All housing units were map spotted at the time of enumeration.

In some other regions of the country where an address list had already been created, the Census Bureau determined that direct enumeration of the population would be more successful than mailback of the forms. This operation was called Update/Enumerate. There were two types of Update/Enumerate areas – urban areas that were formerly Mailout/Mailback and rural areas that were formerly Update/Leave. The urban areas had passed through all the Mailout/Mailback operations up through the point of the creation of the initial DMAF, and the rural areas had passed through Address Listing, and sometimes LUCA 99, by the time of the creation of the initial DMAF. Because of these distinct paths, it was necessary to distinguish between the urban and rural Update/Enumerate areas.

Urban Update/Leave is another special enumeration that took place in areas where mail delivery was considered to be problematic. The addresses had passed through all the operations of the

Mailout/Mailback areas up through the creation of the initial DMAF, but enumerators visited the area during the census. As a result, additions, deletions and corrections to the address list were made.

People who do not receive a questionnaire at their house could submit a Be Counted Form, or they could call Telephone Questionnaire Assistance and have their information collected over the telephone. Addresses from these operations that did not match those already on the DMAF and that were geocoded to a census collection block in an area where census enumeration did not take place were visited in a Field Verification operation to determine if they existed. Verified addresses were added to the address list.

Follow-up operations provided additional information about housing units listed on the DMAF. In Nonresponse Followup (NRFU), enumerators followed up on units that had not returned a pread-dressed census form. These units could be enumerated, deemed vacant, or possibly deleted. At the same time, units that did not appear on the address list could be added and enumerated concurrently. Coverage Improvement Follow Up was designated for enumeration at addresses added by New Construction and the later Delivery Sequence Files, as well as a second check on NRFU vacant and deleted units. Adds were also possible. These operations occurred in the Mailout/Mailback, Update/Leave, and Urban Update/Leave areas.

SERVICE-BASED ENUMERATION

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

SAMPLE DESIGN

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

The sample designation method for housing units depended on the data collection procedures. Approximately 95 percent of the population was enumerated by the mailback procedure. In these areas, the Census Bureau used the Decennial Master Address File (DMAF) to select electronically a probability sample. The questionnaires were either mailed or hand-delivered to selected addresses with instructions to complete and mail back the form.

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

- Counties and county equivalents (such as parishes in Louisiana).

- Cities.

- Incorporated places (including consolidated cities).

- Census designated places in Hawaii only.

Accuracy of the Data G–3

- Minor civil divisions in certain states only (Connecticut, Maine, Massachusetts, Michigan, Minnesota, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont, and Wisconsin).

- School districts (based on the 1995-1996 school year).

- American Indian reservations.

- Tribal jurisdiction statistical areas (replaced for Census 2000 by entities called Oklahoma Tribal Statistical Areas).

- Alaska Native village statistical areas.

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

In List/Enumerate areas (accounting for less than 0.5 percent of the housing units), each enumerator was given a blank address register with designated sample lines. Beginning about Census Day, the enumerator systematically canvassed an Assignment Area (AA) and listed all housing units in the address register in the order they were encountered. Completed questionnaires, including sample information for any housing unit listed on a designated sample line, were collected. If an AA contained any blocks that would qualify as above for a 1-in-2 or 1-in-4 rate, all households in the AA were sampled at 1-in-2. Housing units in all other AAs were sampled at 1-in-6.

Housing units in American Indian reservations, tribal jurisdiction statistical areas (replaced for Census 2000 by entities called Oklahoma Tribal Statistical Areas), and Alaska Native villages were sampled according to the same criteria as other LFSEs, except the sampling rates were based on the size of the American Indian and Alaska Native population in those areas as measured in the 1990 census. Trust lands were sampled at the highest rate of any part of their associated American Indian reservations. If the associated American Indian reservation was entirely outside the state containing the trust land, then the trust land was sampled at a 1-in-2 rate. All Remote Alaska assignment areas were sampled at a rate of 1-in-2. Housing units in Puerto Rico were sampled at a constant 1-in-6 rate in all blocks.

Variable sampling rates provide relatively more reliable estimates for small areas and decrease respondent burden in more densely populated areas while maintaining data reliability. When all sampling rates were taken into account across the Nation, approximately 1 out of every 6 housing units was included in the Census 2000 sample.

CONFIDENTIALITY OF THE DATA

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

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

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

Data swapping.   Data swapping is a method of disclosure limitation designed to protect confidentiality in tables of frequency data (the number or percentage of the population with certain characteristics). Data swapping is done by editing the source data or exchanging records for a sample of cases when creating a table. A sample of households is selected and matched on a set of selected key variables with households in neighboring geographic areas that have similar characteristics (such as the same number of adults and the same number of children). Because the swap often occurs within a neighboring area, there is no effect on the marginal totals for the area or for totals that include data from multiple areas. Because of data swapping, users should not assume that tables with cells having a value of 1 or 2 reveal information about specific individuals. Data swapping procedures were first used in the 1990 census and were also used for Census 2000.

ERRORS IN THE DATA

Statistics in this data product are based on a sample. Therefore, they may differ somewhat from 100-percent figures that would have been obtained if all housing units, people within those housing units, and people living in group quarters had been enumerated using the same questionnaires, instructions, enumerators, and so forth. The sample estimate also would differ from other samples of housing units, people within those housing units, and people living in group quarters. The deviation of a sample estimate from the average of all possible samples is called the *sampling error*. The *standard error* of a sample estimate is a measure of the variation among the estimates from all possible samples. Thus, it measures the precision with which an estimate from a particular sample approximates the average result of all possible samples. The sample estimate and its estimated standard error permit the construction of interval estimates with prescribed confidence that the interval includes the average result of all possible samples. The method of calculating standard errors and confidence intervals for the data in this product appears in the section called "Calculation of Standard Errors."

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

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

Limitations of the Group Quarters Data

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

Accuracy of the Data   G–5

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

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

Calculation of Standard Errors

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

- The unadjusted standard error for the characteristic (given in Table A for estimated totals or Table B for estimated percentages) that would result under a simple random sample design of people, housing units, households, or families.

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

- The number of people, housing units, households, or families in the publication area.

- The observed sampling rate.

The design factor is the ratio of the estimated standard error to the standard error of a simple random sample. The design factors reflect the effects of the actual sample design and the complex ratio estimation procedure used for Census 2000. Percent-in-sample values are provided in Summary File 3. The percent of the population in sample is given in P4, Percent of the Population in Sample. Percent-in-sample values for housing units are provided in H4, Percent of Housing Units in Sample by Occupancy Status. Thus, observed sampling rates for housing units are provided separately for occupied and vacant housing units. Data users should use information in H2, Unweighted Sample Housing Units by Occupancy Status, to determine the most prevalent type of housing unit in a specific geography (occupied or vacant), and use its corresponding percent-in-sample value from H4. As a convenience to data users, a percent-in-sample value for total housing units is available in the Census Bureau's PHC-2, *Summary Social, Economic, and Housing Characteristics* reports (see the Percent of Population and Housing Units in Sample tables). This percent-in-sample value combines occupied and vacant housing units to form a single percent-in-sample value for housing units.

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

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

2. Obtain the person or housing unit observed sampling rate (percent-in-sample) for the geographic area to which the estimate applies. Use the person observed sampling rate for population characteristics and the housing unit observed sampling rate for housing characteristics.

3. Use Table C to obtain the appropriate design factor, based on the characteristic (Employment status, School enrollment, etc.) and the range containing the percent-in-sample value defined in step 2. Multiply the unadjusted standard error by this design factor.

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

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

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

1. For the sum of or difference between a sample estimate and a 100-percent value, use the standard error of the sample estimate. The complete count value is not subject to sampling error.

2. For the sum of or difference between two sample estimates, the appropriate standard error is approximately the square root of the sum of the two individual standard errors squared; that is, for standard errors

$$\text{SE}(\hat{X}) \text{ and SE}(\hat{Y}) \text{ of estimates } \hat{X} \text{ and } \hat{Y}, \text{ respectively:}$$

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

This method, however, will underestimate (overestimate) the standard error if the two items in a sum are highly positively (negatively) correlated or if the two items in a difference are highly negatively (positively) correlated. This method may also be used for the difference between (or sum of) sample estimates from two censuses or from a census sample and another survey. The standard error for estimates not based on the Census 2000 sample must be obtained from an appropriate source outside of this chapter.

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

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

1. If the ratio is a proportion, then follow the procedure outlined for "Totals and percentages."

2. If the ratio is not a proportion, then approximate the standard error using the formula below.

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

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

1. Obtain the appropriate (person or housing unit) observed sampling rate for the specific geographic area. Use this rate to locate the design factor for the characteristic of interest in Table C.

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

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

$$SE(50 \text{ percent}) = \sqrt{\frac{5}{\text{base}} \times 50^2} \times \text{Design Factor}$$

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

$$p\_lower = 50 - SE \text{ (50 percent)}$$

$$p\_upper = 50 + SE \text{ (50 percent)}$$

Find the category in the distribution containing p_lower and the category in the distribution containing p_upper. If p_lower and p_upper fall in the same category, follow these steps:

- Define A1 as the smallest value in that category.

- Define A2 to be the smallest value in the next (higher) category.

- Define C1 as the cumulative percent of units strictly less than A1.

- Define C2 as the cumulative percent of units strictly less than A2.

Use these values (A1, A2, C1, C2) in step 5 to obtain the Lower Bound and the Upper Bound.

If p_lower and p_upper are in different categories, follow the steps above twice–once for each category. In effect, users will interpolate twice to obtain the Lower and Upper Bounds as follows:

- First, for the category containing p_lower, define the values A1, A2, C1, and C2 as above. Use these values in step 5 to obtain the Lower Bound.

- Second, for the category containing p_upper, define a new set of values for A1, A2, C1, and C2. Use these values in step 5 to obtain the Upper Bound.

5. Use the following formula and the values obtained in step 4 to form a confidence interval about the median:

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

where $X = $ p_lower (p_upper) for the Lower Bound (Upper Bound).

6. Divide the difference between the two points determined in step 5 by two to obtain the estimated standard error of the median:

$$SE(\text{median}) = \frac{\text{Upper Bound} - \text{Lower Bound}}{2} = \frac{(p\_upper - p\_lower)}{C2 - C1} \times \frac{A2 - A1}{2}$$

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

Accuracy of the Data

The formula for estimating the standard error of a mean, $\bar{x}$, is

$$SE(\bar{x}) = \sqrt{\frac{5}{base} \times s^2} \times \text{Design Factor}$$

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

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

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

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

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

The most representative value of the characteristic in interval j is assumed to be the midpoint of the interval, m_j. If the cth interval is open-ended, i.e., no upper interval boundary exists, then an approximate value for m_c is

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

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

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

Confidence intervals. A sample estimate and its estimated standard error may be used to construct confidence intervals about the estimate. These intervals are ranges that will contain the average value of the estimated characteristic that results over all possible samples, with a known probability.

For example, if all possible samples that could result under the Census 2000 sample design were independently selected and surveyed under the same conditions, and if the estimate and its estimated standard error were calculated for each of these samples, then:

1. *68 percent confidence interval.* Approximately 68 percent of the intervals from one estimated standard error below the estimate to one estimated standard error above the estimate would contain the average result from all possible samples.

2. *90 percent confidence interval.* Approximately 90 percent of the intervals from 1.645 times the estimated standard error below the estimate to 1.645 times the estimated standard error above the estimate would contain the average result from all possible samples.

3. *95 percent confidence interval.* Approximately 95 percent of the intervals from two estimated standard errors below the estimate to two estimated standard errors above the estimate would contain the average result from all possible samples.

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

Accuracy of the Data

Confidence intervals also may be constructed for the ratio, sum of, or difference between two sample figures. First compute the ratio, sum, or difference. Next, obtain the standard error of the ratio, sum, or difference (using the formulas given earlier). Finally, form a confidence interval for this estimated ratio, sum, or difference as above. One can then say with specified confidence that this interval includes the ratio, sum, or difference that would have been obtained by averaging the results from all possible samples.

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

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

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

Limitations. Be careful when computing and interpreting confidence intervals. The estimated standard errors given in this chapter do not include all portions of the variability because of non-sampling error that may be present in the data. The standard errors reflect the effect of simple response variance, but not the effect of correlated errors introduced by enumerators, coders, or other field or processing personnel. Thus, the standard errors calculated represent a lower bound of the total error. As a result, confidence intervals formed using these estimated standard errors might not meet the stated levels of confidence (i.e., 68, 90, or 95 percent). Thus, be careful interpreting the data in this data product based on the estimated standard errors.

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

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

Using Tables to Compute Standard Errors and Confidence Intervals

Example 1. Computing the standard error of a total. Suppose a particular data table shows that for City A 9,948 people out of all 15,888 people age 16 years and over were in the civilian labor force. The person observed sampling rate (percent-in-sample) in City A is 16.0 percent. The column in Table C that includes an observed sampling rate of 16.0 percent shows the design factor to be 1.1 for the population characteristic "Employment status."

The unadjusted standard error for the estimated total of 9,948 is computed using the formula given below Table A. Suppose that the total population of City A was 21,220. The formula for the unadjusted standard error, SE, is

$$SE(9,948) = \sqrt{5(9,948)\left(1 - \frac{9,948}{21,220}\right)}$$
$$= 163 \text{ people.}$$

The 5 in the above formula is based on a 1-in-6 sample and is derived from the inverse of the sampling rate minus one; i.e., $5 = 6 - 1$. To find the standard error of the estimated 9,948 people 16 years and over who were in the civilian labor force, multiply the unadjusted standard error 163 by the design factor, 1.1, from Table C. This yields an estimated standard error of 179 for the total number of people 16 years and over in City A who were in the civilian labor force.

Example 2. Computing the standard error of a percentage. The estimated percent of people 16 years and over who were in the civilian labor force in City A is 62.6 percent (= 9,948 ÷

15,888). Using the formula below Table B, the unadjusted standard error is approximately

$$SE(62.6) = \sqrt{\left(\frac{5}{15,888}\right)(62.6)(100-62.6)}$$

$$= 0.86 \text{ percentage points.}$$

Again, the 5 in the above formula is based on a 1-in-6 sample and is derived from the inverse of the sampling rate minus one; i.e., $5 = 6 - 1$. The standard error for the estimated 62.6 percent of people 16 years and over who were in the civilian labor force is 0.86 x 1.1 = 0.95 percentage points.

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

Example 3. Computing a confidence interval. In Example 1, the adjusted standard error of the 9,948 people 16 years and over in City A in the civilian labor force was 179. Thus, a 90 percent confidence interval for this estimated total is:

$$[9,948 - 1.645(179)] \text{ to } [9,948 + 1.645\ (179)]$$
$$\text{or } 9,654 \text{ to } 10,242.$$

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

Example 4. Computing the standard error and confidence interval for the difference between two sample estimates. Suppose the number of people in City B age 16 years and over who were in the civilian labor force was 9,314 and the total number of people 16 years and over was 16,666. The population size of City B was 25,225, resulting in a person percent-in-sample of 15.7. The range that includes an observed sampling rate of 15.7 in Table C shows the design factor to be 1.1 for "Employment status." Using the formula below Table A and the appropriate design factor, the estimated standard error for the total number of people 16 years and over in City B who were in the civilian labor force is 188 (= 171 x 1.1). The estimated percentage of people 16 years and over who were in the civilian labor force is 55.9 percent. The unadjusted standard error determined using the formula provided at the bottom of Table B is 0.86 percentage points, and the approximate standard error of the percentage (55.9 percent) is 0.86 x 1.1 = 0.95 percentage points.

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

$$62.6 - 55.9 = 6.7 \text{ percent.}$$

Using the above calculations and the adjusted standard error from Example 2:

$$SE\ (6.7) = \sqrt{[SE(62.6)]^2 + [SE(55.9)]^2} = \sqrt{(0.95)^2 + (0.95)^2}$$
$$= 1.34 \text{ percentage points.}$$

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

$$[6.70 - 1.645(1.34)] \text{ to } [6.70 + 1.645(1.34)]$$
$$\text{or } 4.50 \text{ to } 8.90.$$

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

Example 5. Computing the standard error and confidence interval for the ratio of two sample estimates. For reasonably large samples, ratio estimates are normally distributed, particularly for the census population. Therefore, if the standard error of a ratio estimate can be calculated, then a confidence interval can be formed about the ratio.

Accuracy of the Data   G–11

Suppose that one wished to obtain the standard error of the ratio of the estimate of people who were 16 years and over and who were in the civilian labor force in City A to the estimate of people who were 16 years and over and who were in the civilian labor force in City B. The ratio of the two estimates is:

$$\frac{9{,}948}{9{,}314} = 1.07$$

The standard error of this ratio is:

$$SE(1.07) = \left(\frac{9{,}948}{9{,}314}\right)\sqrt{\frac{(179)^2}{(9{,}948)^2} + \frac{(188)^2}{(9{,}314)^2}}$$

$$= 0.029.$$

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

$$[1.07 - 1.645(0.029)] \text{ to } [1.07 + 1.645(0.029)]$$

$$\text{or } 1.02 \text{ to } 1.12.$$

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

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

1. The housing unit observed sampling rate in City C is 14.3. Suppose that the corresponding design factor in Table C for the housing characteristic "Value" is 1.2.

2. Obtain the frequency distribution for housing values in City C. The base is the sum of the frequencies (4,227).

Table 1. **Frequency Distribution and Cumulative Totals for Housing Value**

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

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

$$SE(50 \text{ percent}) = \sqrt{\frac{5}{4{,}227}} \times 50^2 \times 1.2$$

$$= 2.06$$

4. Calculate a confidence interval with bounds:

$$p\_lower = 50 - 2.06 = 47.94$$

$$p\_upper = 50 + 2.06 = 52.06$$

From the given distribution, the category with the cumulative percent first exceeding 47.94 percent is $50,000 to $99,999. Therefore, A1 = $50,000. C1 is the cumulative percent of housing units with value less than $50,000. As a result, C1 = 36.62 percent.

Accuracy of the Data

The category with the cumulative percent that first exceeds 52.06 percent is also $50,000 to $99,999. A2 is the smallest value in the next (higher) category, resulting in A2 = $100,000. C2 is the cumulative percent of housing units with value less than $100,000. Thus, C2 = 56.02 percent.

5. Given the values obtained in earlier steps, calculate the Lower and Upper Bounds of the confidence interval about the median:

$$\text{Lower Bound} = \left[\frac{47.94 - 36.62}{56.02 - 36.62}\right] \text{x} (\$100,000 - \$50,000) + \$50,000$$

$$\text{Upper Bound} = \left[\frac{52.06 - 36.62}{56.02 - 36.62}\right] \text{x} (\$100,000 - \$50,000) + \$50,000$$

The confidence interval is $79,175 to $89,794.

6. The estimated standard error of the median is

$$\text{SE(median)} = \frac{\$89,794 - \$79,175}{2} = \$5,310$$

Example 7. Computing the standard error of a mean. This example shows the steps for calculating the standard error for the average commuting time in City D. The frequency distribution is given in Table 2.

Table 2. **Frequency Distribution for Travel Time to Work**

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

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

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

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

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

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

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

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

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

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

Table 3. **Calculations for Travel Time to Work**

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

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

4. Calculate the estimated population variance.

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

$$= 393.013$$

5. In City D, the person observed sampling rate is 13.1 percent. Suppose the design factor for "Travel time to work" in City D, given in the "Less than 15 percent" percent-in-sample column of Table C, is 1.4. Use this information and the results from steps 1 through 4 to calculate an estimated standard error for the mean as:

$$SE(\bar{x}) = \sqrt{\frac{5}{776,619} \times 393.013 \times 1.4}$$

$$= 0.07 \text{ minutes.}$$

ESTIMATION PROCEDURE

The estimates that appear in this product were obtained from an iterative ratio estimation procedure (iterative proportional fitting) resulting in the assignment of a weight to each sample person or housing unit record. For any given tabulation area, a characteristic total was estimated by summing the weights assigned to the people or housing units possessing the characteristic in the tabulation area. Estimates of family or household characteristics were based on the weight assigned to the family member designated as householder. Each sample person or housing unit record was assigned exactly one weight to be used to produce estimates of all characteristics. For example, if the weight given to a sample person or housing unit had the value 6, all characteristics of that person or housing unit would be tabulated with a weight of 6. The estimation procedure, however, did assign weights varying from person to person or housing unit to housing unit.

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

People

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

People

Stage I: Type of Household

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

Stage II: Sampling Type

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

Stage III: Householder Status

Group	
1	Householder
2	Nonhouseholder

People—Con.

Stage IV: Age/Sex/Race/Hispanic origin

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

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

NOTE: Multiple race people were included in one of the six race groups for estimation purposes only. Subsequent tabulations were based on the full set of responses to the race item.

The ratio estimation procedure for people was conducted within a weighting area in four stages as follows:

Stage I.

1. Assign an initial weight to each sample person record approximately equal to the inverse of the observed sampling rate for the weighting area.

2. Prior to iterative proportional fitting, combine categories in each of the four estimation stages, if necessary, to increase the reliability of the ratio estimation procedure. For each stage, any group that did not meet certain criteria for the unweighted sample count or for the ratio of the 100-percent to the initially weighted sample count was combined with another group in the same stage according to a specified collapsing pattern. There was an additional criterion concerning the number of complete count people in each race/Hispanic origin category in the second estimation stage.

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

Stage II. The Stage I adjusted weights were again adjusted by the ratio of the complete census count to the sum of the Stage I weights for sample people in each Stage II group.

Accuracy of the Data

Stage III. The Stage II weights were adjusted by the ratio of the complete census count to the sum of the Stage II weights for sample people in each Stage III group.

Stage IV. The Stage III weights were adjusted by the ratio of the complete census count to the sum of the Stage III weights for sample people in each Stage IV group.

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

Housing Units

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

Occupied Housing Units

Stage I: Type of Household

Group	Family with own children under 18: Number of people in housing unit
1	2
2	3
3	4
4	5
5	6-7
6	8 or more

	Family without own children under 18:
7-12	2 through 8 or more

	All other housing units:
13	1
14-19	2 through 8 or more

Stage II: Sampling Type

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

Occupied Housing Units—Con.

Stage III: Race and Hispanic Origin of Householder/Tenure

Group   Owner: Hispanic origin:
1   Black or African American
2   American Indian or Alaska Native
3   Asian
4   Native Hawaiian or Pacific Islander
5   White
6   Some Other Race

7-12   Owner: Not of Hispanic origin: Same race categories as 1-6
13-24   Renter: Same Hispanic origin and race categories as 1-12

Vacant Housing Units

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

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

CONSISTENCY WITH COMPLETE COUNTS

As described earlier, Census 2000 long form data were collected on a sample basis. Cities and incorporated places were used to determine sampling rates to support estimates for these areas. As a result, each city, incorporated place, school district, and county had addresses selected in the long form sample.

To produce estimates from the long form data, weighting was performed at the weighting area level. In forming weighting areas, trade-offs between reliability, consistency of the estimates, and complexity of the implementation were considered. The decision was made to form weighting areas consisting of small geographic areas with at least 400 sample persons (or about 200 or more completed long forms) that do not cross county boundaries. No other boundary constraints were imposed. Thus, total population estimates from the long form data will agree with census counts reported in SF 1 and SF 2 for the weighting area, county, and other higher geographic areas obtained by combining either weighting areas or counties. Differences between long form estimates of characteristics in the SF 3 and their corresponding values in the SF 1 or SF 2 are par-ticularly noticeable for small places, tracts, and block groups. Examples of these characteristics are the total number of people, the number of people reporting specific racial categories, and the number of housing units. The official values for items reported on the short form come from SF 1 and SF 2.

Because the weighting areas were formed at a smaller geographic level, any differential nonre-sponse to long form questionnaires by demographic groups or geographical areas included in a weighting area may introduce differences in complete counts (SF 1 and SF 2) and the SF 3 total population estimates. Also, an insufficient number of sample cases in the weighting matrix cells could lead to differences in SF 1, SF 2, and SF 3 population totals. Thus, differences between the census and SF 3 counts are typical and expected.

In 1990, separate tabulations were not prepared for small areas below a certain size. In contrast, Census 2000 tabulations are being prepared for all areas to maximize data availability. This approach may lead to a greater number of anomalous results than what may have been observed with tabulations released from the 1990 census. A similar phenomenon occurred in the 1990 census when weighting areas respected city and place boundaries. Census counts differed from the long form data estimates in small places. As expected, these differences were sometimes large.

The SF 1 tables provide the official census count of the number of people in an area. The SF 3 tables provide estimates of the proportion of people with specific characteristics, such as occupation, disability, or educational attainment. The total number of people in the SF 3 table is provided for use as the denominator, or base, for these proportions. Estimates in the SF 3 tables give the best estimates of the proportion of people with a particular characteristic, but the census count is the official count of how many people are in the area.

The SF 1 gives exact numbers even for very small groups and areas; whereas, SF 3 gives estimates for small groups and areas, such as tracts and small places, that are less exact. The goal of SF 3 is to identify large differences among areas or large changes over time. Estimates for small areas and small population groups often exhibit large changes from one census to the next, so having the capability to measure them is worthwhile.

NONSAMPLING ERROR

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

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

Types of Nonsampling Error

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

Respondent and enumerator error. The person answering the mail questionnaire for a household or responding to the questions posed by an enumerator could serve as a source of error, although the question wording was extensively tested in several experimental studies prior to the census. The mail respondent may overlook or misunderstand a question, or answer a question in a way that cannot be interpreted correctly by the data capture system. Also, the enumerator may:

misinterpret or otherwise incorrectly record information given by a respondent, fail to collect some of the information for a person or household, or collect data for households that were not designated as part of the sample. Enumerators were monitored carefully to minimize these types of field enumeration problems. Field staff was prepared for their tasks by using standardized training packages that included hands-on experience with census materials. A sample of the households interviewed by each enumerator was reinterviewed to control for the possibility of fabricated data being submitted by enumerators.

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

Reduction of Nonsampling Error

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

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

- Be Counted questionnaires – unaddressed forms requesting all short form data and a few additional items – were available in public locations for people who believed they were not otherwise counted.

- An introductory letter was sent to all Mailout/Mailback addresses and many addresses in Update/Leave areas prior to the mailing of the census form. A reminder postcard was also sent to these addresses.

- Forms in Spanish and other languages were mailed to those who requested them by returning the introductory letter.

- A well-publicized, toll-free telephone number was available to answer questions about the census forms. Responses from people in households who received a short form could be taken over the telephone.

- Under the Local Update of Census Addresses (LUCA) program, local officials had the opportunity to address specific concerns about the accuracy and completeness of the Master Address File before mailings began.

Resolving Multiple Responses

There were multiple modes of response for Census 2000. Because there were various ways people could initiate their enumeration in the census, and the fact that some people would be enumerated during field followup, it was very likely that some people could be enumerated more than once. A special computer process was implemented to control this type of nonsampling error by resolving situations where more than one form was received from a particular housing unit, as designated by its identification (ID). The process consisted of several steps. IDs that had more

than one viable return were analyzed. Within each of these IDs, the person records on each return were compared with person records on the other return(s). People included on two or more different returns were marked as such, and only one of the person records was used in the creation of the household roster.

EDITING OF UNACCEPTABLE DATA

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

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

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

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

Incomplete or inconsistent information on the questionnaire data records was assigned acceptable values using *imputation* procedures during the final automated edit of the collected data. As in previous censuses, the general procedure for changing unacceptable entries was to assign an entry for a person that was consistent with entries for people with similar characteristics. Assigning acceptable codes in place of blanks or unacceptable entries enhances the usefulness of the data.

Another way in which corrections were made during the computer editing process was *substitution.* Substitution assigned a full set of characteristics for people in a household. If there was an indication that a household was occupied by a specified number of people but the questionnaire contained no information for people within the household, or the occupants were not listed on the questionnaire, the Census Bureau selected a previously accepted household of the same size and substituted its full set of characteristics for this household.

Table A. **Unadjusted Standard Error for Estimated Totals**
[Based on a 1-in-6 simple random sample]

Estimated total[1]	Size of publication area[2]													
	500	1,000	2,500	5,000	10,000	25,000	50,000	100,000	250,000	500,000	1,000,000	5,000,000	10,000,000	25,000,000
50	15	15	16	16	16	16	16	16	16	16	16	16	16	16
100	20	21	22	22	22	22	22	22	22	22	22	22	22	22
250	25	31	34	34	35	35	35	35	35	35	35	35	35	35
500	-	35	45	47	49	49	50	50	50	50	50	50	50	50
1,000	-	-	55	63	67	69	70	70	71	71	71	71	71	71
2,500	-	-	-	79	97	106	109	110	111	112	112	112	112	112
5,000	-	-	-	-	112	141	150	154	157	157	158	158	158	158
10,000	-	-	-	-	-	173	200	212	219	221	222	223	223	224
15,000	-	-	-	-	-	173	229	252	266	270	272	273	274	274
25,000	-	-	-	-	-	-	250	306	335	345	349	353	353	353
75,000	-	-	-	-	-	-	-	306	512	565	589	608	610	611
100,000	-	-	-	-	-	-	-	-	548	632	671	700	704	706
250,000	-	-	-	-	-	-	-	-	-	791	968	1090	1104	1112
500,000	-	-	-	-	-	-	-	-	-	-	1118	1500	1541	1565
1,000,000 . . .	-	-	-	-	- -	-	-	-	-	-	-	2000	2121	2191
5,000,000 . . .	-	-	-	-	-	-	-	-	-	-	-	-	3536	4472
10,000,000 . .	-	-	-	-	-	-	-	-	-	-	-	-	-	5477

[1]For estimated totals larger than 10,000,000, the standard error is somewhat larger than the table values. Use the formula given below to calculate the standard error.

$$SE(\hat{Y}) = \sqrt{5\hat{Y}\left(1 - \frac{\hat{Y}}{N}\right)}$$

N = Size of publication area

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

The 5 in the above equation is based on a 1-in-6 sample and is derived from the inverse of the sampling rate minus one, i.e., 5 = 6 − 1.

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

Table B. **Unadjusted Standard Error in Percentage Points for Estimated Percentages**
[Based on a 1-in-6 simple random sample]

Estimated percentage	Base of estimated percentage[1]												
	500	750	1,000	1,500	2,500	5,000	7,500	10,000	25,000	50,000	100,000	250,000	500,000
2 or 98	1.4	1.1	1.0	0.8	0.6	0.4	0.4	0.3	0.2	0.1	0.1	0.1	0.0
5 or 95	2.2	1.8	1.5	1.3	1.0	0.7	0.6	0.5	0.3	0.2	0.2	0.1	0.1
10 or 90	3.0	2.4	2.1	1.7	1.3	0.9	0.8	0.7	0.4	0.3	0.2	0.1	0.1
15 or 85	3.6	2.9	2.5	2.1	1.6	1.1	0.9	0.8	0.5	0.4	0.3	0.2	0.1
20 or 80	4.0	3.3	2.8	2.3	1.8	1.3	1.0	0.9	0.6	0.4	0.3	0.2	0.1
25 or 75	4.3	3.5	3.1	2.5	1.9	1.4	1.1	1.0	0.6	0.4	0.3	0.2	0.1
30 or 70	4.6	3.7	3.2	2.6	2.0	1.4	1.2	1.0	0.6	0.5	0.3	0.2	0.1
35 or 65	4.8	3.9	3.4	2.8	2.1	1.5	1.2	1.1	0.7	0.5	0.3	0.2	0.2
50	5.0	4.1	3.5	2.9	2.2	1.6	1.3	1.1	0.7	0.5	0.4	0.2	0.2

[1]For a percentage and/or base of percentage not shown in the table, use the formula given below to calculate the standard error. Use this table only for proportions; that is, where the numerator is a subset of the denominator.

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

B = Base of estimated percentage

$\hat{p}$ = Estimated percentage

The 5 in the above equation is based on a 1-in-6 sample and is derived from the inverse of the sampling rate minus one, i.e., 5 = 6 − 1.

Accuracy of the Data

Table C. **Standard Error Design Factors—District of Columbia**

[Percent of people or housing units in sample]

Characteristic	Less than 15 Percent	15 percent to less than 25 percent	25 percent to less than 35 percent	35 percent or more
POPULATION				
Age	1.3	1.2	1.2	1.2
Sex	1.2	1.1	1.1	1.1
Race	1.9	2.2	2.2	2.2
Hispanic or Latino	1.8	2.1	2.1	2.1
Marital status	1.2	1.1	1.1	1.1
Household type and relationship	1.2	1.2	1.2	1.2
Disabled and employment disability	1.3	1.3	1.3	1.3
Ancestry	1.6	1.7	1.7	1.7
Place of birth	1.5	1.4	1.4	1.4
Citizenship status	1.5	1.5	1.5	1.5
Residence in 1995	1.8	1.8	1.8	1.8
Year of entry	1.6	1.6	1.6	1.6
Language spoken at home and ability to speak English	1.6	1.7	1.7	1.7
Educational attainment	1.2	1.2	1.2	1.2
School enrollment	1.4	1.5	1.5	1.5
Type of residence (urban/rural)	N/A	N/A	N/A	N/A
Household type	1.2	1.2	1.2	1.2
Family type	2.1	2.2	2.2	2.2
Subfamily type and presence of children	1.3	1.2	1.2	1.2
Grandparent status and responsibility for grandchild	1.5	1.3	1.3	1.3
Employment status	1.3	1.1	1.1	1.1
Industry	1.3	1.2	1.2	1.2
Occupation	1.3	1.1	1.1	1.1
Class of worker	1.3	1.2	1.2	1.2
Usual hours worked per week and weeks worked in 1999	1.3	1.1	1.1	1.1
Number of workers in family in 1999	1.2	1.1	1.1	1.1
Place of work	1.4	1.2	1.2	1.2
Means of transportation to work	1.3	1.3	1.3	1.3
Travel time to work	1.3	1.2	1.2	1.2
Time leaving home to go to work	1.3	1.2	1.2	1.2
Private vehicle occupancy	1.3	1.3	1.3	1.3
Type of income in 1999	1.4	1.2	1.2	1.2
Household income in 1999	1.2	1.1	1.1	1.1
Family income in 1999	1.2	1.1	1.1	1.1
Poverty status in 1999 (persons)	1.5	1.4	1.4	1.4
Poverty status in 1999 (families)	1.2	1.1	1.1	1.1
Military service and veteran status	1.3	1.1	1.1	1.1
HOUSING				
Age of householder	1.2	1.1	1.1	1.1
Race of householder	1.1	1.0	1.0	1.0
Hispanic or Latino householder	1.1	1.0	1.0	1.0
Type of residence (urban/rural)	N/A	N/A	N/A	N/A
Units in structure	1.0	0.8	0.8	0.8
Tenure	1.1	0.9	0.9	0.9
Occupancy status	1.3	1.0	1.0	1.0
Value	1.1	1.0	1.0	1.0
Gross rent	1.2	1.0	1.0	1.0
Household income in 1999	1.2	1.0	1.0	1.0
Year structure built	1.1	0.9	0.9	0.9
Rooms, bedrooms	1.1	1.0	1.0	1.0
Kitchen facilities	1.0	0.9	0.9	0.9
Plumbing facilities	1.1	1.0	1.0	1.0
House heating fuel	1.1	0.9	0.9	0.9
Telephone service available	1.0	0.9	0.9	0.9
Vehicles available	1.1	1.0	1.0	1.0
Year householder moved into unit	1.2	1.0	1.0	1.0
Mortgage status and monthly mortgage costs	1.1	1.1	1.1	1.1
Mortgage status and selected monthly owner costs	1.1	1.1	1.1	1.1
Gross rent as a percentage of household income in 1999	1.2	1.0	1.0	1.0
Household income in 1999 by selected monthly owner costs as a percentage of income in 1999	1.2	1.1	1.1	1.1

N/A means Not Applicable. Since the District of Columbia is entirely contained inside urbanized areas and the weighting procedure controls to the total population, there is no sampling error present on the total number of people or housing units for Type of residence (urban/rural).

U.S. Census Bureau, Census 2000

District of Columbia: 2000
Summary Social, Economic, and Housing Characteristics

2000 Census of Population and Housing