

After 1990 CPH-5 reports were published, the Census Bureau discovered that data in this report series on weeks worked in 1989 and usual hours worked per week in 1989 (Tables 5 and 6) and on mobility and self-care limitations (Tables 7 and 8) were incorrect. Corrected versions of Tables 5, 6, 7, and 8, which were published after the errors were discovered, are shown in this report.

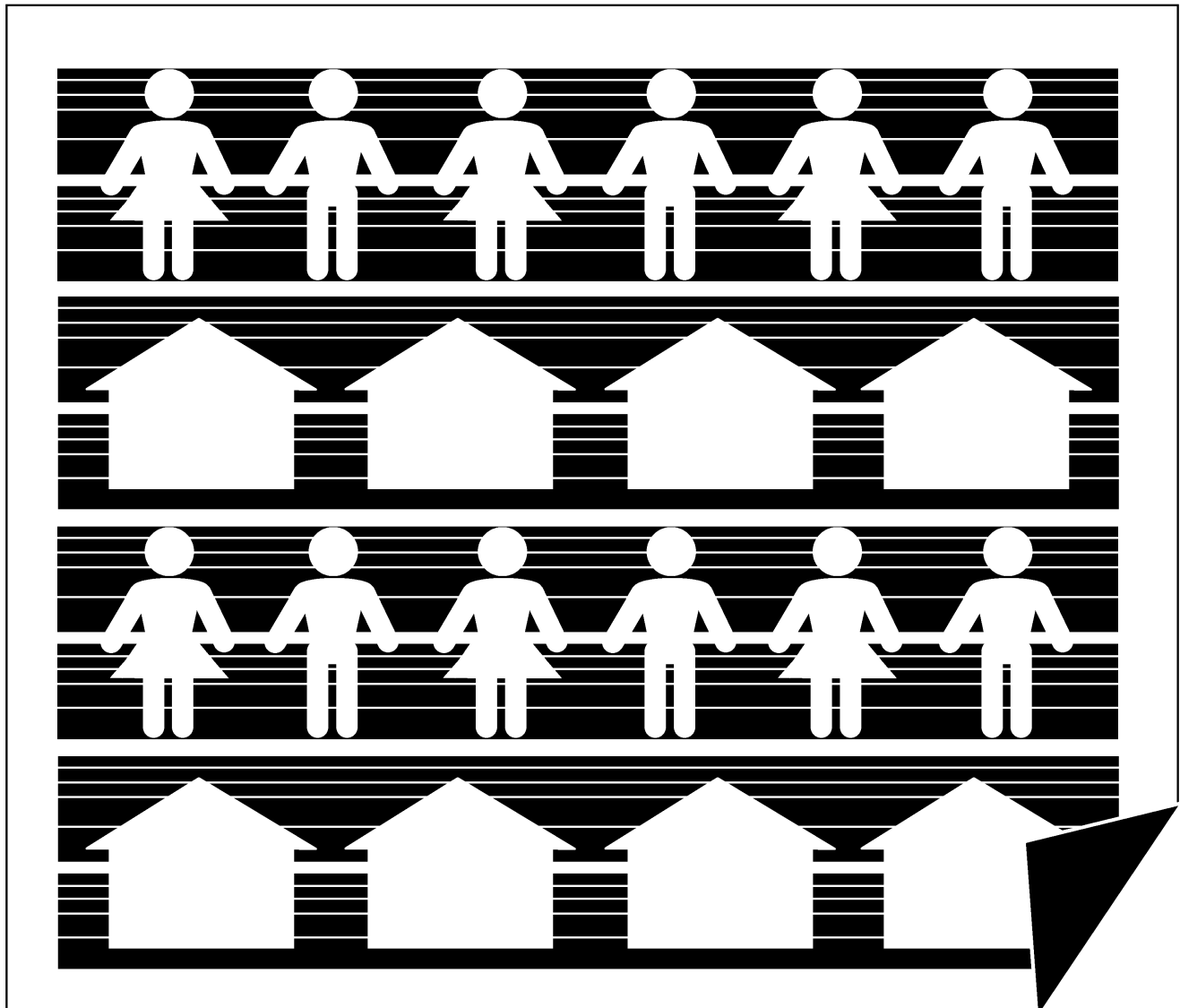
U.S. Department of Commerce
Economics and Statistics Administration
BUREAU OF THE CENSUS

1990 CPH-5-13

CENSUS '90



1990 Census of
Population and Housing
Summary Social, Economic,
and Housing Characteristics
Hawaii



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INTRODUCTION

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

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

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

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

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

HOW TO FIND GEOGRAPHIC AREAS AND SUBJECT-MATTER DATA

This report includes a table finding guide to assist the user in locating those statistical tables that contain the data that are needed. The table finding guide lists 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 left-hand 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. Below is an example of a table finding guide.

TABLE FINDING GUIDE

Subjects by Type of Geographic Area and Table Number

Subjects covered in this report are shown on the left side, and types of geographic areas are shown at the top. For a description of area classifications, see appendix A. For definitions and explanations of subject characteristics, see appendix B. Table numbers without reference letters in parentheses indicate data for the total population only. Data by race and Hispanic origin are indicated with reference letters in parentheses after the table numbers. Reference letters for population counts and subjects by race and Hispanic origin follow.

- (A) White; Black; American Indian, Eskimo, or Aleut; Asian or Pacific Islander; Hispanic origin; White, not of Hispanic origin.
- (B) American Indian, Eskimo, Aleut, All Asian, Chinese, Filipino, Japanese, Asian Indian, Korean, Vietnamese, Cambodian, Hmong, Laotian, Thai, All Pacific Islander, Hawaiian, Samoan, Guamanian.
- (C) Mexican, Puerto Rican, Cuban, Other Hispanic origin, Dominican, Central American, Guatemalan, Honduran, Nicaraguan, Panamanian, Salvadoran, South American, Colombian, Ecuadorian, Peruvian.
- (D) Race by Hispanic origin.

Subject	The State		County		Place and (in selected States) county subdivision ²		American Indian and Alaska Native area ³
	Total	Urban, rural, size of place, and rural farm ¹	Total	Rural or rural farm	10,000 or more	2,500 to 9,999	
Age	20, 34, 65(B)	20, 56(A)	95, 106(A)	169, 171	135(A)	151	173(A)
Ancestry	17, 31	17	92	...	121	150	...
Disability	20, 34, 84(D)	20, 57(A)	95, 107(A)	...	136(A)	152	174(A)
Educational attainment	22, 36	22, 57(A)	97, 107(A)	169, 171	136(A)	160(A)	174(A)
Household type and relationship	21, 35	21, 56(A)	96, 106(A)	169, 171	135(A)	160(A)	173(A)
Industry	26, 40, 67(B)	26, 58(A)	101, 108(A), 116(B)	170, 172	137(A), 148(C)	161(A), 167(C)	175(A)
Poverty status	29, 43, 72(B)	29, 63(A)	104, 113(A), 117(B)	170, 172	142(A), 149(C)	162(A), 168(C)	180(A)
Residence in 1985	23, 37, 67(B)	23, 60(A)	98, 110(A)	...	139(A)	155	177(A)
Veteran status	23, 37, 69(B)	23, 60(A)	98, 110(A)	...	139(A)	155	177(A)
Work status in 1989	27, 41, 69(B)	27, 60(A)	102, 110(A)	...	139(A)	155	177(A)

... Not applicable.

¹Type of residence categories are less detailed in tables 56-64 (which show characteristics by race and Hispanic origin) than in other tables.

²The selected States are Connecticut, Maine, Massachusetts, Michigan, Minnesota, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont, and Wisconsin.

³Characteristics are shown only for the American Indian, Eskimo, or Aleut population.

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

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

- A “(pt.)” next to the name of a geographic area in a hierarchical presentation indicates that the geographic entity is only partially located in the superior geographic entity. For example, a “(pt.)” next to a place name in a county subdivision-place hierarchy indicates that the place is located in more than one 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.
- BG is block group.
- BNA is block numbering area.
- CDP is census designated place.
- CMSA is consolidated metropolitan statistical area.
- MA is metropolitan area.
- MSA is metropolitan statistical area.
- PMSA is primary metropolitan statistical area.
- TDSA is tribal designated statistical area.
- TJSA is tribal jurisdiction statistical area.

- unorg. is unorganized territory.
- VTD is voting district.

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

GRAPHICS

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

USER NOTES

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

CONTENTS OF THE APPENDIXES

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

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

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

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

Appendix E—Presents a facsimile of the 1990 census questionnaire pages and the respondent instructions used to collect the data in this report.

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

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

TABLE FINDING GUIDE

Subjects by Type of Geographic Area and Table Number

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

Subject	The State	County	Place		County subdivision		American Indian and Alaska Native area
			By county and county subdivision	Alphabetically for the State	By county	Alphabetically for the State ¹	
POPULATION CHARACTERISTICS							
Disability	7,8	7,8	7	8	7	8	...
Educational attainment	3,4	3,4	3	4	3	4	17
Family type and presence of own children . .	1,2	1,2	1	2	1	2	...
Income in 1989	9,10	9,10	9	10	9	10	17
Labor force status	5,6	5,6	5	6	5	6	17
For persons 16 to 19 years by school enrollment and educational attainment . .	3,4	3,4	3	4	3	4	17
Labor force status in 1989—							
Weeks and hours worked	5,6	5,6	5	6	5	6	...
Language spoken at home and ability to speak English	1,2	1,2	1	2	1	2	...
Means of transportation to work	5,6	5,6	5	6	5	6	...
Nativity	1,2	1,2	1	2	1	2	...
Place of birth	1,2	1,2	1	2	1	2	...
Poverty status in 1989	9,10	9,10	9	10	9	10	17
Residence in 1985	1,2	1,2	1	2	1	2	...
School enrollment and type of school	3,4	3,4	3	4	3	4	17
Veteran status	3,4	3,4	3	4	3	4	...
HOUSING CHARACTERISTICS							
Bedrooms	11,12	11,12	11	12	11	12	...
Condominium	11,12	11,12	11	12	11	12	...
Gross rent	15,16	15,16	15	16	15	16	18
House heating fuel	13,14	13,14	13	14	13	14	...
Kitchen facilities	11,12	11,12	11	12	11	12	...
Mortgage status and selected monthly owner costs	15,16	15,16	15	16	15	16	18
Plumbing facilities	11,12	11,12	11	12	11	12	18
Sewage disposal	11,12	11,12	11	12	11	12	...
Source of water	11,12	11,12	11	12	11	12	...
Telephone in unit	13,14	13,14	13	14	13	14	...
Tenure	15,16	15,16	15	16	15	16	18
Vehicles available	13,14	13,14	13	14	13	14	18
Year householder moved into unit	15,16	15,16	15	16	15	16	...
Year structure built	11,12	11,12	11	12	11	12	...

... Not applicable for this report.

¹County subdivisions within the State are shown alphabetically with places only in the reports for the following 12 States: Connecticut, Maine, Massachusetts, Michigan, Minnesota, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont, and Wisconsin.

USER NOTES

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

Data User Services Division
Customer Services
Bureau of the Census
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301-763-4100

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

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ADDITIONAL DEFINITIONS AND EXPLANATIONS OF DATA

GENERAL

User Note 1

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

The reporting of age 1 year older than age on April 1, 1990, is likely to have been greater in areas where the census data were collected later in 1990. The magnitude of this problem was much less in the three previous

censuses where age was typically derived from respondent data on year of birth and quarter of birth. (For more information on the design of the age question, see the discussion on comparability under "Age" in appendix B.)

User Note 2

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

User Note 3

The data shown in selected products for persons enumerated in "visible in street locations" are incorrect and should not be used. Only the 100-percent data shown in data products, such as Summary Tape Files (STF's) 1 and 2 and in the 1990 CP-1, *General Population Characteristics* State reports should be used for persons enumerated at "visible in street locations."

During "Shelter and Street Night Enumeration," all visible persons on the streets were asked only the basic 100-percent population questions (age, sex, marital status, race, and Hispanic origin).

During census processing of sample data, information from the long-form questionnaire was inadvertently assigned to a very small percentage of the visible in street population.

User Note 4

The estimated population totals for persons in group quarters, specifically by group quarters type, that are based on census sample tabulations may differ from comparable figures shown in 100-percent tabulations. Such differences result, in part, from sampling variability which occurs because information was obtained from a sample of the population rather than from all persons. Differences also occur because of nonsampling errors which affect the 100-percent and sample data. Examples of nonsampling errors include respondent and enumerator errors, processing errors, and nonresponse.

The 100-percent data are the official counts and should be used as the source for data on group quarters type when the primary focus is on counts of the population in group quarters, especially for small areas such as census tracts/ BNA's or blocks. When the group quarters population is shown by characteristics covered only on a sample

basis (for example, education, labor force status, income, etc.), the sample figures should be used within the context of the sampling variability associated with them.

For more information on the limitations of 100-percent and sample data for persons in group quarters and the classification of group quarters type, see appendix B. Reasons for the differences between 100-percent and sample totals will be an important focus of post-census research and evaluation.

User Note 5

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 errors. (For more information on nonsampling error, see appendix C.)

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 origin, number of rooms, and tenure. This is especially appropriate when the primary focus is on counts of the population or housing units for small areas such as census tracts/BNA's, block groups, and for American Indian and Alaska Native areas. For estimates of counts of persons and housing units by characteristics asked only on a sample basis (such as education, labor force status, income, and source of water), the sample estimates should be used within the context of the error associated with them.

Many users are interested in tabulations of items collected on the sample cross-classified by items collected on a 100-percent basis such as age, race, sex, Hispanic origin, and housing units by tenure. Given the way the weights were applied during sample tabulations, generally, there is exact agreement between sample estimates and 100-percent counts for total population and total housing units for most geographic areas. At the State level and higher geographic levels, sample estimates and 100-percent counts for population by age, sex, race, and Hispanic origin and for housing units by tenure, number of rooms and so on would be reasonably similar and, in some cases, the same.

At smaller geographic levels, including census tract/BNA, there is still general agreement between 100-percent counts and sample estimates of total population or housing units. At smaller geographic levels, however, there will be expected differences between sample estimates and 100-percent counts for population by age, sex, race, and Hispanic origin and for housing units by tenure, number of

rooms and so on. In these cases, users may want to consider using derived measures (such as means and medians) or percent distributions. Whether using absolute numbers or derived measures for small population groups and for a small number of housing units in small geographic areas, users should be cautioned that the sampling error associated with these data may be large.

Even though the differences between sample estimates and 100-percent counts for these categories are generally small, the differences for the American Indian, as well as the Hispanic origin populations, are relatively larger than for other groups. The following provides some explanation for these differences.

State-level sample estimates of the number of American Indians are generally higher than the corresponding 100-percent counts. It appears the differences are primarily the result of proportionately higher reporting of "Cherokee" tribe on sample questionnaires. This phenomenon occurs primarily in off-reservation areas. The reasons for the greater reporting of Cherokee on sample forms are not fully known at this time. The Census Bureau will do research to provide more information on this phenomenon.

For the Hispanic origin population, sample estimates at the State level are generally lower than the corresponding 100-percent counts. The majority of difference is caused by the 100-percent and sample processing of the Hispanic question on the sample questionnaire when the respondent did not mark any response category. When processing the sample, we used written entries in race or Hispanic origin as well as responses to questions only asked on the sample, such as ancestry and place of birth. These procedures led to a lower proportion of persons being assigned as Hispanic in sample processing than were assigned during 100-percent processing. The Census Bureau will evaluate the effectiveness of the 100-percent and sample procedures.

As in previous censuses, the Census Bureau will evaluate the quality of the data and make this information available to data users. In the meanwhile, both 100-percent and sample data serve very important purposes and, therefore, should be used within the limitations of the sampling and nonsampling errors.

User Note 6

Data presented in tables 15 and 16 for "Median selected monthly owner costs as a percentage of household income in 1989" (With a mortgage), "Median selected monthly owner costs as a percentage of household income in 1989" (Not mortgaged), and "Median gross rent as a percentage of household income in 1989" are inconsistent with the explanations for derived measures in appendix B. Specifically, when the median falls in the lower interval of the tabulation distribution, the estimated value obtained by linear interpolation is shown rather than the upper value of the category followed by a minus sign (-). The lower interval has an assumed range of 0.0 to 19.9 percent.

User Note 7

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

Table 1. Selected Social Characteristics: 1990

[Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text]

State County County Subdivision Place	All persons				Persons 5 years and over		Persons who speak a language other than English at home				Family households							
			Native		Total	Percent living in different house in 1985	Persons 5 to 17 years		Persons 18 years and over		Total	Percent with own children under 18 years	Married-couple family		Female householder, no husband present			
	Total	Percent foreign born	Total	Percent born in State of residence			Total	Percent who do not speak English "very well"	Total	Percent who do not speak English "very well"			Total	Percent with own children under 18 years	Total	Percent with own children under 18 years	Total	Percent with own children under 18 years
The State	1 108 229	14.7	945 525	65.8	1 026 209	49.1	29 600	38.0	225 124	50.3	266 439	47.7	215 835	48.4	35 368	47.8		
Hawaii County	120 317	8.5	110 046	71.9	111 018	46.9	1 984	31.3	17 695	44.7	30 654	50.3	23 896	48.1	4 652	64.1		
Hilo division	39 574	5.7	37 335	85.0	36 857	41.1	538	36.2	6 386	46.6	10 236	48.6	7 777	46.1	1 888	62.0		
Hilo CDP	37 728	5.2	35 765	84.9	35 146	41.1	467	33.2	5 924	46.0	9 778	49.0	7 424	46.1	1 793	63.4		
Mountain View CDP (pt.)																		
Wainaku CDP	1 323	17.1	1 097	90.3	1 209	36.6	56	71.4	298	52.3	342	43.0	256	46.5	76	36.8		
Honokaa-Kukuihaele division	3 758	14.0	3 233	88.7	3 460	32.0	120	31.7	834	37.6	985	46.7	773	47.9	146	43.2		
Honokaa CDP (pt.)	2 307	16.7	1 922	90.8	2 162	30.4	66	7.6	564	30.5	621	46.2	492	49.2	92	43.5		
Kukuihaele CDP	245	8.6	224	96.9	219	18.3			54	57.4	62	48.4	45	44.4	7			
Kau division	4 517	14.3	3 873	69.1	4 204	37.8	80	28.8	716	57.0	1 135	52.2	930	50.4	148	78.4		
Hawaiian Ocean View CDP	980	3.1	950	26.9	917	77.3			26	65.4	251	42.6	198	35.9	45	80.0		
Naalehu CDP	1 114	13.7	961	94.1	1 026	14.2	26		196	44.9	300	50.0	222	48.6	53	64.2		
Pahala CDP	1 422	23.4	1 089	97.2	1 334	20.3	54	42.6	364	74.7	344	58.7	289	59.2	35	88.6		
Volcano CDP (pt.)	83		83	69.9	68	66.2			23		20	75.0	20	75.0				
Keaaun-Mountain View division	13 993	10.2	12 570	66.8	12 785	49.3	260	22.7	1 893	45.7	3 493	56.3	2 658	52.6	566	76.1		
Hawaii Paradise Park CDP	3 369	12.7	2 940	54.5	3 085	58.3	83	36.1	374	61.0	889	61.5	661	56.1	168	89.3		
Keaaun CDP	1 604	31.2	1 103	87.6	1 464	46.9	58	13.8	655	62.6	373	37.0	298	36.9	51	35.3		
Kurtistown CDP	819	8.5	749	86.9	752	20.9			131	43.5	243	40.3	196	44.4	22	36.4		
Mountain View CDP (pt.)	3 198	3.3	3 092	70.2	2 922	48.1	60	10.0	241	25.7	777	55.9	580	53.6	133	69.9		
Volcano CDP (pt.)	1 401	3.9	1 346	69.2	1 291	51.0			73	8.2	356	57.9	274	53.3	56	71.4		
North Hilo division	1 620	18.0	1 328	89.4	1 520	31.3	23	60.9	340	65.9	439	41.7	372	47.0	57	14.0		
Laupahoehoe CDP	573	11.2	509	83.7	532	37.6	23	60.9	65	83.1	146	43.8	138	40.6	8	100.0		
North Kohala division	4 238	10.5	3 793	79.3	3 889	37.8	96	66.7	633	61.9	1 022	46.8	746	47.3	159	49.1		
Halaula CDP	440	20.0	352	80.1	406	31.8	4	100.0	115	61.9	114	56.1	63	55.6	27	66.7		
Hawi CDP	912	7.5	844	89.3	831	32.5			81	59.3	210	56.2	164	51.8	40	67.5		
Kapaaun CDP	1 101	11.0	980	83.9	1 005	28.0			208	65.9	289	36.3	198	40.4	44	34.1		
North Kona division	22 196	7.6	20 503	49.3	20 397	60.6	348	25.0	2 110	32.8	5 666	49.4	4 645	46.5	629	65.0		
Hualaloa CDP	3 736	9.8	3 369	37.9	3 454	57.6	32	21.9	440	25.0	1 019	40.5	897	34.3	76	85.5		
Honalo CDP	1 969	4.8	1 875	63.7	1 800	58.2	23		251	49.4	524	46.9	349	44.4	128	53.1		
Kahaluu-Keauhou CDP	1 947	9.0	1 772	32.3	1 836	59.6	36	19.4	140	50.0	561	40.3	503	36.0	39	66.7		
Kailua CDP	9 224	9.1	8 389	53.0	8 429	63.3	226	32.3	897	31.0	2 120	54.5	1 712	51.9	247	66.8		
Kalaoa CDP	4 490	4.5	4 287	47.5	4 143	59.8	31		346	27.2	1 216	51.2	1 005	49.5	115	69.6		
Kealahou CDP (pt.)	125		125	71.2	125	92.0			13	38.5	33	100.0	33	100.0				
Paaun-Paauilo division	1 849	12.5	1 618	82.8	1 697	30.5	54		307	41.7	514	48.2	459	45.3	22	68.2		
Honokaa CDP (pt.)																		
Paaun CDP	587	18.2	480	85.0	526	26.0	9		120	43.3	153	30.7	144	26.4				
Pahoa-Kalapana division	6 745	13.9	5 810	63.3	6 153	46.3	149	39.6	1 151	40.1	1 637	59.2	1 165	54.6	331	77.0		
Hawaiian Beaches CDP	2 774	5.3	2 628	73.0	2 554	37.0	28		201	22.4	674	64.4	452	57.1	161	88.2		
Pahoa CDP	1 099	27.0	802	85.3	1 045	35.3	95	52.6	494	53.8	283	46.6	226	48.7	32	31.3		
Papaikou-Wailea division	5 067	12.8	4 419	89.0	4 669	31.4	70	5.7	1 362	55.8	1 366	41.3	1 050	39.8	200	54.5		
Honouliuli CDP	563	23.4	431	82.1	539	57.5			200	83.5	171	39.8	114	43.0	39	48.7		
Papaikou CDP	1 607	7.6	1 485	92.1	1 503	31.6	12		289	45.7	451	37.5	330	35.5	69	42.0		
Paukaa CDP	520	15.2	441	76.9	493	27.2	18		150	25.3	149	26.8	118	25.4	17	58.8		
Pepeekeo CDP	1 784	16.9	1 482	90.7	1 626	24.7	40	10.0	597	61.6	460	50.7	368	49.7	68	64.7		
South Kohala division	9 052	9.2	8 219	60.1	8 326	62.6	146	30.8	1 041	34.6	2 187	55.6	1 789	52.7	272	74.6		
Puako CDP	446	9.9	402	44.3	407	76.2			38	100.0	110	51.8	66	62.1	28			
Waikoloa Village CDP	2 237	13.0	1 946	30.4	2 055	86.7			345	33.0	601	41.4	504	38.1	59	84.7		
Waimea CDP	5 934	7.6	5 483	72.7	5 461	50.6	146	30.8	624	32.1	1 408	60.4	1 182	57.5	154	79.2		
South Kona division	7 708	4.7	7 345	71.1	7 061	51.1	100	33.0	922	35.2	1 974	49.0	1 532	50.7	234	53.8		
Captain Cook CDP	2 725	4.3	2 609	72.1	2 473	43.9			217	51.6	789	47.1	620	53.1	111	30.6		
Honauun-Napoopoo CDP	2 376	5.6	2 244	68.1	2 200	57.3			324	45.1	534	55.2	381	58.0	70	64.3		
Kealahou CDP (pt.)	1 198	7.5	1 108	76.1	1 132	39.8	28	75.0	246	16.7	318	38.1	270	31.9	14	100.0		
Honolulu County	836 231	15.7	705 269	64.3	775 063	49.7	24 030	39.2	179 048	50.5	199 597	47.0	162 688	48.3	26 101	44.1		
Ewa division	230 175	14.2	197 596	63.8	211 029	53.4	6 091	32.7	43 208	48.9	55 379	53.8	47 610	54.6	5 307	51.4		
Aiea CDP	8 906	10.8	7 941	77.3	8 459	30.3	166		1 596	52.9	2 209	34.9	1 850	36.1	234	22.2		
Barbers Point Housing CDP	2 327	9.1	2 116	14.0	1 864	97.7	18	100.0	254	31.5	868	61.5	806	58.6	57	100.0		
Ewa Beach CDP	14 255	19.5	11 474	78.2	13 176	38.9	588	31.1	3 195	47.3	2 886	53.8	2 377	56.0	361	41.0		
Ewa Gentry CDP	2 052	17.2	1 700	62.4	1 852	97.7	27	55.6	423	33.6	532	47.4	484	45.2	41	63.4		
Ewa Villages CDP	3 780	33.3	2 523	92.9	3 511	57.2	133	10.5	1 470	63.7	823	44.2	658	52.0	84	26.2		
Halawa CDP	13 408	15.3	11 363	72.2	12 435	43.7	358	19.6	2 878	49.0	3 379	40.8	2 752	41.1	494	31.6		
Hickam Housing CDP	6 553	7.2	6 080	9.6	5 687	96.9	148	17.8	594	40.1	1 753	77.5	1 672	76.4	39	100.0		
Iroquois Point CDP	4 188	6.9	3 900	10.8	3 445	95.2	66	60.6	343	20.4	1 202	83.5	1 158	82.9	32	100.0		
Makakilo City CDP	9 828	11.6	8 685	51.2	8 994	60.3	223	26.9	1 233	39.2	2 426	51.2	2 168	51.8	176	48.9		
Mililani Town CDP	29 359	8.5	26 859	64.6	26 933	49.4	607	42.7	3 429	39.5	7 747	65.0	6 877	66.1	647	57.7		
Pearl City CDP	30 993	10.1	27 859	76.8	28 879	34.7	591	44.2	5 595	52.1	7 830	43.4	6 834	43.5	687	43.8		
Village Park CDP	7 407	19.0	6 002	75.3	6 621	71.1	257	62.1	1 655	41.2	1 859	64.6						

Table 1. Selected Social Characteristics: 1990—Con.

[Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text]

State County County Subdivision Place	All persons				Persons 5 years and over		Persons who speak a language other than English at home				Family households					
			Native				Persons 5 to 17 years		Persons 18 years and over				Married-couple family		Female householder, no husband present	
	Total	Percent foreign born	Total	Percent born in State of residence	Total	Percent living in different house in 1985	Total	Percent who do not speak English "very well"	Total	Percent who do not speak English "very well"	Total	Percent with own children under 18 years	Total	Percent with own children under 18 years	Total	Percent with own children under 18 years
Honolulu County—Con.																
Honolulu division	377 059	21.1	297 668	67.2	355 411	46.7	13 379	44.9	105 288	54.3	91 269	39.5	71 764	40.8	14 113	38.8
Aliamanu CDP	8 835	11.0	7 864	13.4	7 347	91.1	218	17.9	1 249	27.1	2 383	81.2	2 281	80.8	67	89.6
Fort Shafter CDP	2 952	3.6	2 847	12.1	2 548	96.4	38	52.6	232	22.8	912	70.1	860	68.3	47	100.0
Honolulu CDP	365 272	21.4	286 957	69.2	345 516	45.4	13 123	45.3	103 807	54.7	87 974	38.0	68 613	39.1	13 999	38.4
Koolauloa division	18 540	15.8	15 618	58.8	16 781	54.1	641	13.6	3 511	37.5	3 800	56.1	3 059	59.4	464	46.6
Hauula CDP	3 381	7.9	3 114	72.7	3 015	51.0	160	28.8	499	32.3	710	62.7	553	64.6	112	61.6
Kaaawa CDP	1 275	3.5	1 230	54.3	1 160	50.3	28	—	103	21.4	301	35.9	218	41.3	46	17.4
Kahuku CDP	1 991	25.8	1 478	86.6	1 830	46.0	146	9.6	540	44.3	441	46.9	367	50.1	49	12.2
Kawela Bay CDP	409	2.4	399	26.8	386	64.2	—	—	41	31.7	104	42.3	72	26.4	25	100.0
Lais CDP	5 577	25.6	4 149	50.5	4 992	60.6	199	2.5	1 488	35.6	951	64.5	873	66.6	64	50.0
Punaluu CDP	6 633	6.8	590	55.3	577	72.1	—	—	85	23.5	154	34.4	119	30.3	25	68.0
Pupukea CDP	4 140	11.2	3 675	44.3	3 792	55.5	85	25.9	562	49.1	877	60.1	667	63.3	98	52.0
Koolaupoko division	117 597	5.9	110 671	62.1	108 455	47.1	1 511	33.0	11 713	37.4	28 812	47.8	24 234	49.5	3 209	39.5
Ahihuanu CDP	8 387	6.6	7 822	69.0	7 604	27.4	140	5.7	700	29.6	2 080	61.1	1 798	63.0	177	56.5
Heeia CDP	5 010	6.6	4 679	72.2	4 740	48.2	48	25.0	471	35.7	1 305	36.9	1 167	37.8	77	42.9
Kahaluu CDP	3 068	9.6	2 774	67.2	2 826	40.6	62	51.6	457	43.8	766	49.0	653	51.8	71	26.2
Kailua CDP	36 818	5.5	34 798	56.0	34 376	45.3	399	34.6	3 263	36.0	9 886	42.4	8 334	43.9	1 733	33.9
Kaneohe CDP	35 448	6.1	33 298	75.1	32 866	43.4	457	35.2	4 012	40.9	9 018	45.3	7 387	46.3	1 153	42.7
Kaneohe Station CDP	11 662	5.1	11 069	8.5	10 065	98.3	167	58.1	1 094	27.8	1 976	85.1	1 924	84.7	122	100.0
Maunawili CDP	4 847	5.9	4 562	63.8	4 571	38.3	50	10.0	336	31.0	1 233	39.6	1 072	41.2	112	28.6
Waikane CDP	689	5.4	652	89.6	640	29.7	29	—	65	29.2	141	46.1	102	46.1	24	33.3
Waianalo CDP	3 508	7.0	3 264	89.0	3 234	31.7	55	43.6	439	39.9	741	54.8	535	56.8	178	57.5
Waianalo Beach CDP	4 185	1.9	4 107	88.9	3 866	17.3	28	21.4	253	25.3	770	39.2	536	43.5	162	24.1
Wahiawa division	43 900	10.7	39 196	38.0	38 945	68.9	1 135	36.9	7 642	44.5	9 786	63.9	8 170	65.2	1 151	60.9
Schofield Barracks CDP	19 597	5.0	18 609	6.8	17 101	94.2	515	28.7	2 114	34.8	3 523	87.4	3 420	87.0	46	100.0
Wahiawa CDP	17 386	11.7	15 360	74.6	15 783	41.6	373	42.1	3 715	48.5	4 617	45.8	3 310	43.1	968	57.7
Wheeler AFB CDP	2 600	6.0	2 443	12.4	2 200	94.5	15	100.0	245	42.0	706	73.9	680	72.9	15	100.0
Whitmore Village CDP	3 373	38.7	2 068	83.0	3 048	48.4	141	53.2	1 400	47.9	757	56.5	596	55.9	108	63.9
Waialua division	11 549	14.0	9 932	68.4	10 657	38.2	334	37.1	2 345	55.1	2 635	45.8	2 136	46.7	294	48.3
Haleiwa CDP	2 194	8.8	2 002	74.0	2 023	28.8	45	48.9	338	54.7	510	51.4	403	51.4	60	45.0
Mokuleia CDP	1 667	8.6	1 524	28.5	1 514	87.5	26	—	150	39.3	441	43.8	392	42.6	35	34.3
Waialua CDP	4 052	17.2	3 355	79.4	3 765	28.4	178	36.5	1 100	57.2	964	39.2	727	39.6	143	55.2
Waianae division	37 411	7.5	34 588	80.0	33 785	44.6	939	32.4	5 341	35.1	7 916	57.5	5 715	57.2	1 563	62.8
Maili CDP	6 059	11.3	5 372	81.9	5 541	47.3	232	22.8	1 130	38.1	1 199	58.3	886	56.5	215	64.2
Makaha CDP	7 947	8.2	7 299	70.7	7 213	59.1	165	42.4	1 025	46.3	1 763	59.1	1 295	56.4	319	75.2
Makaha Valley CDP	1 055	4.1	1 012	29.6	872	84.3	—	—	117	25.6	320	43.4	274	—	37	—
Nanakuli CDP	9 575	6.2	8 984	86.2	8 566	35.3	297	39.7	1 367	27.1	1 840	58.0	1 338	61.2	377	55.7
Waianae CDP	8 758	6.3	8 208	85.9	7 990	37.8	155	27.1	1 124	32.2	1 861	57.5	1 257	58.8	431	59.9
Kalawao County	130	15.4	110	87.3	130	40.8	—	—	27	22.2	14	—	14	—	—	—
Kalawao division	130	15.4	110	87.3	130	40.8	—	—	27	22.2	14	—	14	—	—	—
Kauai County	51 177	14.6	43 723	72.3	47 319	42.8	1 290	32.6	10 019	53.3	12 502	49.9	10 235	50.4	1 486	46.7
Eleele-Kalaheo division	6 477	12.3	5 679	75.7	6 027	37.1	110	41.8	1 167	60.0	1 635	48.3	1 382	51.2	152	25.7
Eleele CDP (pt.)	1 418	28.6	1 013	86.9	1 325	31.5	84	38.1	537	65.0	363	44.6	310	47.1	25	24.0
Hanapepe CDP (pt.)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Kalaheo CDP	3 592	7.5	3 323	73.0	3 305	41.1	16	56.3	474	52.5	895	49.8	767	52.7	79	25.3
Lawai CDP (pt.)	950	5.3	900	76.6	900	29.4	—	—	54	57.4	249	51.0	208	53.4	31	19.4
Omao CDP (pt.)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hanalei division	4 481	6.7	4 181	42.2	4 193	53.1	49	—	449	24.5	1 163	57.4	970	57.0	129	55.0
Hanalei CDP	386	4.7	368	52.7	374	47.9	—	—	60	46.7	94	53.2	83	56.6	11	27.3
Kalihiwai CDP	495	1.4	488	38.5	454	48.5	—	—	70	—	116	53.4	95	56.8	15	53.3
Kilauea CDP	1 736	9.6	1 570	58.2	1 602	34.5	49	—	209	29.7	453	66.4	377	65.3	68	69.1
Princeville CDP	1 208	7.2	1 121	16.1	1 133	83.8	—	—	68	29.4	330	47.3	278	48.2	35	37.1
Kapaa division	6 805	16.3	5 697	77.0	6 120	48.1	293	34.8	1 201	55.9	1 602	57.5	1 236	54.8	223	70.9
Kapaa CDP (pt.)	6 805	16.3	5 697	77.0	6 120	48.1	293	34.8	1 201	55.9	1 602	57.5	1 236	54.8	223	70.9
Kaunakani-Hanapepe division	2 881	21.2	2 271	90.3	2 665	29.6	94	35.1	930	54.5	749	47.0	631	48.2	76	39.5
Eleele CDP (pt.)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hanapepe CDP (pt.)	1 356	6.8	1 264	88.4	1 246	33.8	—	—	332	41.0	370	46.5	327	45.0	28	53.6
Kaunakani CDP	806	50.6	398	92.5	756	36.8	68	48.5	438	62.3	186	59.1	139	62.6	34	44.1
Pakala Village CDP	601	18.3	491	94.3	553	16.1	26	—	151	64.9	158	27.8	130	33.8	14	—
Kekaha-Waimea division	5 741	16.1	4 819	81.7	5 289	31.7	145	38.6	1 252	64.3	1 369	49.2	1 132	50.1	152	51.3
Kekaha CDP	3 506	18.8	2 847	83.8	3 193	23.6	114	44.7	835	65.6	839	53.8	681	55.8	103	59.2
Waimea CDP	1 835	13.2	1 593	87.5	1 714	38.7	31	16.1	388	64.7	418	40.2	350	41.1	49	34.7
Koloa-Poipu division	4 923	13.8	4 244	69.4	4 601	40.8	144	31.9	914	50.8	1 267	48.9	1 098	52.3	104	21.2
Koloa CDP	1 700	20.3	1 355	78.8	1 576	33.5	73	30.1	434	65.7	411	47.7	332	49.4	37	37.8
Lawai CDP (pt.)	908	5.1	862	78.5	872	30.0	9	—	93	44.1	229	48.5	216	51.4	13	—
Omao CDP (pt.)	1 140	12.8	994	82.2	1 036	36.3	17	—	204	40.2	307	47.9	281	52.3	15	—
Poipu CDP	1 068	13.3	926	30.2	1 010	65.1	24	100.0	147	38.1	293	54.3	252	57.5	29	27.6
Lihue division	5 292	14.2	4 539	73.7	5 072	45.3	31	51.6	1 154	43.2	1 291	37.8	1 062	39.5	148	31.8
Lihue CDP (pt.)	5 292	14.2	4 539	73.7	5 072	45.3	31	51.6	1 154	43.2	1 291	37.8	1 062	39.5	148	31.8
Niihau division	240	2.5	234	100.0	203	82.8	56	73.2	135	90.4	36	61.1	22	100.0	11	—
Puhi-Hanamaulu division	5 462	28.9	3 883	84.7	4 996	39.2	163	37.4	1 736	57.8	1 207	48.6	948	48.5	153	41.2

SUMMARY SOCIAL, ECONOMIC, AND HOUSING CHARACTERISTICS

Table 1. Selected Social Characteristics: 1990—Con.

[Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text]

State County County Subdivision Place	All persons		Persons 5 years and over		Persons who speak a language other than English at home				Family households									
	Total	Percent foreign born	Native		Total	Percent living in different house in 1985	Persons 5 to 17 years		Persons 18 years and over		Total	Percent with own children under 18 years	Married-couple family		Female householder, no husband present			
			Total	Percent born in State of residence			Total	Percent who do not speak English "very well"	Total	Percent who do not speak English "very well"			Total	Percent with own children under 18 years	Total	Percent with own children under 18 years	Total	Percent with own children under 18 years
Kauai County—Con.																		
Puhi-Hanamaulu division—Con.																		
Hanamaulu CDP	3 604	31.5	2 467	87.4	3 313	31.5	142	39.4	1 162	57.4	793	48.4	591	48.9	131	48.1		
Lihue CDP (pt.)	244	16.0	205	71.7	234	96.2	—	—	13	—	66	50.0	66	50.0	—	—		
Puhi CDP	1 217	32.5	821	91.1	1 120	42.9	5	100.0	491	67.0	276	46.4	227	46.3	22	—		
Wailua-Anahola division	8 875	7.9	8 176	65.4	8 153	49.8	205	9.3	1 081	42.2	2 183	51.1	1 754	49.6	338	55.0		
Anahola CDP	1 209	2.2	1 182	74.3	1 122	38.6	40	10.0	99	46.5	232	44.0	157	36.9	58	46.6		
Kapaa CDP (pt.)	1 344	7.6	1 242	65.6	1 246	54.3	20	—	158	56.3	310	47.1	253	48.6	33	48.5		
Wailua CDP	1 990	9.4	1 803	79.0	1 838	42.3	18	—	298	53.4	523	52.0	431	49.0	88	64.8		
Wailua Homesteads CDP	3 870	6.5	3 620	56.0	3 537	57.4	127	11.8	384	27.6	995	54.4	816	53.3	133	55.6		
Mauai County	100 374	13.9	86 377	66.9	92 679	50.0	2 296	34.3	18 335	51.3	23 672	49.2	19 002	48.5	3 129	54.5		
East Molokai division	4 474	10.1	4 022	88.5	4 004	35.6	104	20.2	766	47.3	1 013	57.5	794	55.7	165	58.8		
Kaunakakai CDP	2 623	12.7	2 290	91.1	2 330	34.6	67	31.3	476	53.8	598	53.8	463	52.9	112	53.6		
Haiku-Pauwela division	5 750	4.7	5 479	58.5	5 272	44.9	43	16.3	480	28.8	1 350	62.6	1 124	58.3	177	87.6		
Haiku-Pauwela CDP	4 573	5.2	4 336	61.0	4 245	45.3	24	—	425	28.2	1 066	64.0	895	61.1	143	84.6		
Hana division	1 898	1.9	1 862	71.6	1 664	34.8	7	—	169	38.0	380	48.9	302	50.0	45	40.0		
Hana CDP	619	2.4	604	81.5	526	31.2	—	—	27	18.5	118	27.1	100	32.0	14	—		
Kahului division	16 683	24.2	12 638	89.8	15 451	33.8	495	34.1	5 031	58.5	3 923	44.1	3 185	43.8	514	44.0		
Kahului CDP (pt.)	16 683	24.2	12 638	89.8	15 451	33.8	495	34.1	5 031	58.5	3 923	44.1	3 185	43.8	514	44.0		
Kihei division	12 897	12.9	11 237	35.0	11 989	76.7	232	30.2	1 537	41.2	3 112	47.5	2 626	46.3	310	70.3		
Kihei CDP	10 878	13.6	9 401	38.0	10 084	75.8	223	31.4	1 380	42.6	2 510	50.1	2 084	47.7	283	77.0		
Maalaea CDP	672	10.4	602	11.8	647	80.4	—	—	28	—	195	23.1	171	26.3	12	—		
Wailea-Makena CDP (pt.)	1 330	8.5	1 217	23.6	1 241	82.0	9	—	129	35.7	399	43.9	363	48.2	15	—		
Kula division	8 050	6.1	7 558	49.2	7 482	56.7	77	37.7	742	43.7	2 100	49.3	1 743	45.0	248	72.6		
Wailea-Makena CDP (pt.)	2 469	12.5	2 161	18.0	2 343	72.2	54	44.4	322	39.4	654	38.8	577	33.8	45	75.6		
Lahaina division	14 549	17.4	12 015	54.1	13 496	59.0	385	48.1	3 133	50.6	2 960	43.4	2 226	42.7	418	45.5		
Kaanapali CDP	568	25.4	424	19.6	538	55.0	—	—	79	10.1	192	6.8	171	7.6	21	—		
Kapalua CDP	394	14.5	337	16.9	385	86.0	7	—	20	35.0	66	9.1	66	9.1	—	—		
Lahaina CDP	9 073	19.8	7 275	65.6	8 423	49.7	250	60.8	2 497	53.9	1 794	43.3	1 302	42.6	292	40.1		
Napili-Honokowai CDP	4 357	12.3	3 822	39.6	4 033	76.1	128	25.8	537	41.3	869	51.9	665	53.2	98	67.3		
Lanai division	2 411	40.6	1 432	89.1	2 234	48.9	163	39.3	1 065	60.6	656	42.1	484	40.1	82	35.4		
Lanai City CDP	2 397	40.6	1 425	89.5	2 220	48.6	163	39.3	1 065	60.6	656	42.1	484	40.1	82	35.4		
Makawao-Paia division	15 344	8.5	14 044	71.0	14 083	53.1	245	33.9	1 827	43.3	3 826	55.1	3 041	55.0	551	57.5		
Haliimaile CDP	887	26.6	651	75.9	830	23.5	48	—	285	68.4	225	42.7	144	33.3	61	62.3		
Makawao CDP	5 344	6.3	5 009	70.4	4 850	59.9	63	60.3	388	38.7	1 349	58.9	1 087	59.5	166	65.1		
Paia CDP	2 106	12.3	1 848	75.1	1 938	59.1	43	30.2	385	38.7	457	56.0	359	55.4	72	51.4		
Pukalani CDP	5 879	6.3	5 507	75.2	5 396	46.9	83	28.9	650	34.2	1 527	56.8	1 215	57.7	226	51.8		
Puunene division	206	12.6	180	67.8	200	56.0	—	—	56	76.8	22	36.4	22	36.4	—	—		
Kahului CDP (pt.)	206	12.6	180	67.8	200	56.0	—	—	56	76.8	22	36.4	22	36.4	—	—		
Spreckelsville division	191	—	191	28.8	188	50.5	4	—	15	—	49	51.0	39	53.8	7	57.1		
Kahului CDP (pt.)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Waihee-Waikapu division	2 380	11.6	2 104	84.7	2 200	43.8	80	55.0	484	55.8	566	53.2	431	61.9	69	18.8		
Waihee-Waiehue CDP (pt.)	905	15.9	761	82.4	848	42.0	27	—	194	73.7	231	44.6	161	57.1	37	—		
Waikapu CDP	797	14.4	682	85.2	755	26.5	13	46.2	219	50.7	170	46.5	115	54.8	29	44.8		
Wailuku CDP (pt.)	381	1.3	376	84.8	326	93.3	—	—	25	—	106	73.6	106	73.6	—	—		
Wailuku division	13 338	12.4	11 684	80.8	12 396	39.6	376	26.1	2 729	52.6	3 144	45.7	2 530	47.4	446	45.5		
Waihee-Waiehue CDP (pt.)	3 099	21.0	2 449	81.5	2 757	47.5	144	23.6	793	64.2	735	63.9	616	66.2	110	56.4		
Wailuku CDP (pt.)	10 239	9.8	9 235	80.7	9 639	37.3	232	27.6	1 936	47.9	2 409	40.1	1 914	41.3	336	42.0		
West Molokai division	2 203	12.3	1 931	81.9	2 020	33.0	85	21.2	301	69.8	571	60.2	455	59.3	97	56.7		
Kualapuu CDP	1 676	11.8	1 478	85.5	1 552	28.8	55	—	212	72.6	434	61.8	336	61.0	85	58.8		
Maunaloa CDP	428	17.3	354	76.8	369	39.6	30	60.0	89	62.9	97	66.0	85	69.4	12	41.7		

Table 2. Selected Social Characteristics: 1990

[Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text]

State County Place and [In Selected States] County Subdivision	All persons				Persons 5 years and over		Persons who speak a language other than English at home				Family households					
	Total	Percent foreign born	Native		Total	Percent living in different house in 1985	Persons 5 to 17 years		Persons 18 years and over		Total	Percent with own children under 18 years	Married-couple family		Female householder, no hus- band present	
			Total	Percent born in State of residence			Total	Percent who do not speak English "very well"	Total	Percent who do not speak English "very well"			Total	Percent with own children under 18 years	Total	Percent with own children under 18 years
	Total	Percent foreign born	Total	Percent born in State of residence	Total	Percent living in different house in 1985	Total	Percent who do not speak English "very well"	Total	Percent who do not speak English "very well"	Total	Percent with own children under 18 years	Total	Percent with own children under 18 years	Total	Percent with own children under 18 years
The State -----	1 108 229	14.7	945 525	65.8	1 026 209	49.1	29 600	38.0	225 124	50.3	266 439	47.7	215 835	48.4	35 368	47.8
COUNTY																
Hawaii County -----	120 317	8.5	110 046	71.9	111 018	46.9	1 984	31.3	17 695	44.7	30 654	50.3	23 896	48.1	4 652	64.1
Honolulu County -----	836 231	15.7	705 269	84.3	775 063	49.7	24 030	39.2	179 048	50.5	199 597	47.0	162 688	48.3	26 101	44.1
Kalawao County -----	130	15.4	110	87.3	130	40.8	—	—	27	22.2	14	—	14	—	—	—
Kauai County -----	51 177	14.6	43 723	72.3	47 319	42.8	1 290	32.6	10 019	53.3	12 502	49.9	10 235	50.4	1 486	46.7
Maui County -----	100 374	13.9	86 377	66.9	92 679	50.0	2 296	34.3	18 335	51.3	23 672	49.2	19 002	48.5	3 129	54.5
PLACE AND COUNTY SUBDIVISION																
Ahiimanu CDP, Honolulu County -----	8 387	6.7	7 822	69.0	7 604	47.4	140	5.7	700	29.6	2 080	61.1	1 798	63.0	177	56.5
Aiea CDP, Honolulu County -----	8 906	10.8	7 941	77.3	8 459	30.3	166	31.9	1 596	52.9	2 209	34.9	1 850	36.1	234	22.2
Aliamanu CDP, Honolulu County -----	8 835	11.0	7 864	13.4	7 347	91.1	218	17.9	1 249	27.1	2 383	81.2	2 291	80.8	67	89.6
Anahola CDP, Kauai County -----	1 209	2.2	1 182	74.3	1 122	38.6	40	10.0	99	46.5	232	44.0	157	36.9	58	46.6
Barbers Point Housing CDP, Honolulu County -----	2 327	9.1	2 116	14.0	1 864	97.7	18	100.0	254	31.5	868	61.5	806	58.6	57	100.0
Captain Cook CDP, Hawaii County -----	2 725	4.3	2 609	72.1	2 473	43.9	—	—	217	51.6	789	47.1	620	53.1	111	30.6
Eleele CDP, Kauai County -----	1 418	28.6	1 013	86.9	1 325	31.5	84	38.1	537	65.0	363	44.6	310	47.1	25	24.0
Ewa Beach CDP, Honolulu County -----	14 255	19.5	11 474	78.2	13 176	38.9	588	31.1	3 195	47.3	2 886	53.8	2 377	56.0	361	41.0
Ewa Center CDP, Honolulu County -----	2 052	17.2	1 700	62.4	1 852	97.7	27	55.6	423	33.6	532	47.4	484	45.2	41	63.4
Ewa Villages CDP, Honolulu County -----	3 780	33.3	2 523	92.9	3 511	57.2	133	10.5	1 470	63.7	823	44.2	658	52.0	84	26.2
Fort Shafter CDP, Honolulu County -----	2 952	3.6	2 847	12.1	2 548	96.4	38	52.6	232	22.8	912	70.1	860	68.3	47	100.0
Haiku-Paunaloa CDP, Maui County -----	4 573	5.2	4 336	61.0	4 245	45.3	24	—	425	28.2	1 066	64.0	895	61.1	143	84.6
Halaula CDP, Hawaii County -----	440	20.0	352	80.1	406	31.8	4	100.0	115	66.1	114	56.1	63	55.6	27	66.7
Halaula CDP, Honolulu County -----	13 408	15.3	11 363	72.2	12 435	43.7	358	19.6	2 878	49.5	3 379	40.8	2 752	41.1	494	31.6
Haleiwa CDP, Honolulu County -----	2 194	8.8	2 002	74.0	2 023	28.8	45	48.9	338	54.7	510	51.4	403	51.4	60	45.0
Hallimale CDP, Maui County -----	887	26.6	651	75.9	830	23.5	48	—	285	68.4	225	42.7	144	33.3	61	62.3
Hana CDP, Maui County -----	619	2.4	604	81.5	526	31.2	—	—	27	18.5	118	27.1	100	32.0	14	—
Hanalei CDP, Kauai County -----	386	4.7	368	52.7	374	47.9	—	—	60	46.7	94	53.2	83	56.6	11	27.3
Hanalei CDP, Kauai County -----	3 604	31.5	2 467	87.4	3 313	31.5	142	39.4	1 162	57.4	793	48.4	591	48.9	131	48.1
Hanapepe CDP, Kauai County -----	1 356	6.8	1 264	88.4	1 246	33.8	—	—	332	41.0	370	46.5	327	45.0	28	53.6
Hauula CDP, Honolulu County -----	3 381	7.9	3 114	72.7	3 015	51.0	160	28.8	499	32.3	710	62.7	553	64.6	112	61.6
Hawaiian Beaches CDP, Hawaii County -----	2 774	5.3	2 628	73.0	2 554	37.0	28	—	201	22.4	674	64.4	452	57.1	161	88.2
Hawaiian Ocean View CDP, Hawaii County -----	980	3.1	950	26.9	917	77.3	—	—	26	65.4	251	42.6	198	35.9	45	80.0
Hawaiian Paradise Park CDP, Hawaii County -----	3 369	12.7	2 940	54.5	3 085	56.8	83	36.1	374	61.0	889	61.5	661	56.1	168	89.3
Hawi CDP, Hawaii County -----	912	7.5	844	89.3	831	32.5	—	—	81	59.3	210	56.2	164	51.8	40	67.5
Heeia CDP, Honolulu County -----	5 010	6.6	4 679	72.2	4 740	28.2	48	25.0	471	35.7	1 305	36.9	1 167	37.8	77	42.9
Hickam Housing CDP, Honolulu County -----	6 553	7.2	6 080	9.6	5 687	96.9	148	17.6	594	40.1	1 753	77.5	1 672	76.4	39	100.0
Hilo CDP, Hawaii County -----	37 728	5.2	35 765	84.9	35 146	41.1	467	33.2	5 924	46.0	9 778	49.0	7 424	46.1	1 793	63.4
Holualoa CDP, Hawaii County -----	3 736	9.8	3 369	37.9	3 454	57.6	32	21.9	440	25.0	1 019	40.5	897	34.3	76	85.5
Honalo CDP, Hawaii County -----	1 969	4.8	1 875	63.7	1 800	58.2	23	—	251	49.4	524	46.9	349	44.4	128	53.1
Honauunau-Napooopoo CDP, Hawaii County -----	2 376	5.6	2 244	68.1	2 200	57.3	28	—	324	45.1	534	55.2	381	58.0	70	64.3
Honokaa CDP, Hawaii County -----	2 307	16.7	1 922	90.8	2 162	30.4	66	7.6	564	30.5	621	46.2	492	49.2	92	43.5
Honolulu CDP, Honolulu County -----	365 272	21.4	286 957	69.2	345 516	45.4	13 123	45.3	103 807	54.7	87 974	38.0	68 613	39.1	13 999	38.4
Honouliuli CDP, Hawaii County -----	563	23.4	431	82.1	539	57.5	—	—	200	83.5	171	39.8	114	43.0	39	48.7
Iroquois Point CDP, Honolulu County -----	4 188	6.9	3 900	10.8	3 445	95.2	66	60.6	343	20.4	1 202	83.5	1 158	82.9	32	100.0
Kaaawa CDP, Honolulu County -----	1 275	3.5	1 230	54.3	1 160	50.3	28	—	103	21.4	301	35.9	218	41.3	46	17.4
Kaanapali CDP, Maui County -----	568	25.4	424	19.6	538	55.0	—	—	79	10.8	192	6.8	171	7.6	21	—
Kahaluu CDP, Honolulu County -----	3 068	9.6	2 774	67.2	2 826	40.6	62	51.6	457	43.8	766	49.0	653	51.8	71	28.2
Kahaluu-Keauhou CDP, Hawaii County -----	1 947	9.0	1 772	32.3	1 836	59.6	36	19.4	140	50.0	561	40.3	503	36.0	39	66.7
Kahuku CDP, Honolulu County -----	1 991	25.8	1 478	86.6	1 830	46.0	146	9.6	540	44.3	441	46.9	367	50.1	49	12.2
Kahului CDP, Maui County -----	16 889	24.1	12 818	89.5	15 651	34.1	495	34.1	5 087	58.7	3 945	44.0	3 207	43.8	514	44.0
Kailua CDP, Hawaii County -----	9 224	9.1	8 389	53.0	8 429	63.3	226	32.3	897	31.0	2 120	54.5	1 712	51.9	247	66.8
Kailua CDP, Honolulu County -----	36 818	5.5	34 798	56.0	34 376	45.3	399	36.6	3 263	36.0	9 886	42.4	8 334	43.9	1 133	33.9
Kalaheo CDP, Kauai County -----	3 592	7.5	3 323	73.0	3 305	41.1	16	56.3	474	52.5	895	49.8	767	52.7	79	25.3
Kalaoa CDP, Hawaii County -----	4 490	4.5	4 287	47.5	4 143	59.8	31	—	346	27.2	1 216	51.2	1 005	49.5	115	69.6
Kalihiwai CDP, Kauai County -----	495	1.4	488	38.5	454	48.5	—	—	70	—	116	53.4	95	56.8	15	53.3
Kaneohe CDP, Honolulu County -----	35 448	6.1	33 298	75.1	32 866	43.4	457	35.2	4 012	40.9	9 018	45.3	7 387	46.3	1 153	42.7
Kaneohe Station CDP, Honolulu County -----	11 662	5.1	11 069	8.5	10 065	98.3	167	58.1	1 094	27.8	1 976	85.1	1 924	84.7	22	100.0
Kapaa CDP, Kauai County -----	8 149	14.8	6 939	75.0	7 366	49.2	313	32.6	1 359	55.9	1 912	55.8	1 489	53.7	256	68.0
Kapaa CDP, Hawaii County -----	1 101	11.0	980	83.9	1 005	28.0	—	—	208	65.9	289	36.3	198	40.4	44	34.1
Kapalua CDP, Maui County -----	394	14.5	337	16.9	385	86.0	7	—	20	35.0	66	9.1	66	9.1	—	—
Kaumakani CDP, Kauai County -----	806	50.6	398	92.5	756	36.8	68	48.5	438	62.3	186	59.1	139	62.6	34	44.1
Kaunakakai CDP, Maui County -----	2 623	12.7	2 290	91.1	2 330	34.6	67	31.3	476	53.8	598	53.8	463	52.9	112	53.6
Kawela Bay CDP, Honolulu County -----	409	2.4	399	26.8	386	64.2	—	—	41	31.7	104	42.3	72	26.4	25	100.0
Keaau CDP, Hawaii County -----	1 604	31.2	1 103	87.6	1 464	46.9	58	13.8	655	62.6	373	37.0	298	36.9	51	35.3
Kealahou CDP, Hawaii County -----	1 323	6.8	1 233	75.6	1 257	44.9	44	75.0	259	17.8	351	43.9	303	39.3	14	100.0
Kekaha CDP, Kauai County -----	3 506	18.8	2 847	83.8	3 193	23.6	114	44.7	8							

Table 2. Selected Social Characteristics: 1990—Con.

[Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text]

State County Place and [In Selected States] County Subdivision	All persons		Persons 5 years and over		Persons who speak a language other than English at home				Family households							
	Total	Percent foreign born	Native		Total	Percent living in different house in 1985	Persons 5 to 17 years		Persons 18 years and over		Total	Percent with own children under 18 years	Married-couple family		Total	Percent with own children under 18 years
			Total	Percent born in State of residence			Total	Percent who do not speak English "very well"	Total	Percent who do not speak English "very well"			Total	Percent with own children under 18 years		
PLACE AND COUNTY SUBDIVISION— Con.																
Kualapuu CDP, Maui County	1 676	11.8	1 478	85.5	1 552	28.8	55	—	212	72.6	434	61.8	336	61.0	85	58.8
Kukuihaele CDP, Hawaii County	245	8.6	224	96.9	219	18.3	—	—	54	57.4	62	48.4	45	44.4	7	—
Kurtistown CDP, Hawaii County	819	8.5	749	86.9	752	20.9	—	—	131	43.5	243	40.3	196	44.4	22	36.4
Lahaina CDP, Maui County	9 073	19.8	7 275	65.6	8 423	49.7	250	60.8	2 497	53.9	1 794	43.3	1 302	42.6	292	40.1
Laie CDP, Honolulu County	5 577	25.6	4 149	50.5	4 992	60.6	199	2.5	1 488	35.6	951	64.5	873	66.6	64	50.0
Lanai City CDP, Maui County	2 397	40.6	1 425	89.5	2 220	48.6	163	39.3	1 065	60.6	656	42.1	484	40.1	82	35.4
Laupahoehoe CDP, Hawaii County	573	11.2	509	83.7	532	37.6	23	60.9	65	83.1	146	43.8	138	40.6	8	100.0
Lawai CDP, Kauai County	1 858	5.2	1 762	77.5	1 772	29.7	9	—	147	49.0	478	49.8	424	52.4	44	13.6
Lihue CDP, Kauai County	5 536	14.3	4 744	73.6	5 306	47.6	31	51.6	1 167	42.8	1 357	38.4	1 128	40.1	148	31.8
Maalaea CDP, Maui County	672	10.4	602	11.8	647	80.4	—	—	28	—	195	23.1	171	26.3	12	—
Maui CDP, Honolulu County	6 059	11.3	5 372	81.9	5 541	47.3	232	22.8	1 130	38.1	1 199	58.3	886	56.5	215	64.2
Makaha CDP, Honolulu County	7 947	8.2	7 299	70.7	7 213	59.1	165	42.4	1 025	46.3	1 763	59.1	1 295	56.4	319	75.2
Makaha Valley CDP, Honolulu County	1 055	4.1	1 012	29.6	872	84.3	—	—	117	25.6	320	43.4	274	50.7	37	—
Makakilo City CDP, Honolulu County	9 828	11.6	8 685	51.2	8 994	60.3	223	26.9	1 233	39.2	2 426	51.2	2 168	51.8	176	48.9
Makawao CDP, Maui County	5 344	6.3	5 009	70.4	4 850	59.9	63	60.3	388	38.7	1 349	58.9	1 087	59.5	166	65.1
Maunaloa CDP, Maui County	428	17.3	354	76.8	369	39.6	30	60.0	89	62.9	97	66.0	85	69.4	12	41.7
Maunawili CDP, Honolulu County	4 847	5.9	4 562	63.8	4 571	38.7	50	10.0	336	31.0	1 233	39.6	1 072	41.2	112	28.6
Milliani Town CDP, Honolulu County	29 359	8.5	26 859	64.6	26 933	49.4	607	42.7	3 429	39.5	7 747	65.0	6 877	66.1	647	57.7
Mokuleia CDP, Honolulu County	1 667	8.6	1 524	28.5	1 514	87.5	26	—	150	39.3	441	43.8	392	42.6	35	34.3
Mountain View CDP, Hawaii County	3 198	3.3	3 092	70.2	2 922	48.1	60	10.0	241	25.7	777	55.9	580	53.6	133	69.9
Naalehu CDP, Hawaii County	1 114	13.7	961	94.1	1 026	14.2	26	—	196	44.9	300	50.0	222	48.6	53	64.2
Nanakuli CDP, Honolulu County	9 575	6.2	8 984	86.2	8 566	35.3	297	39.7	1 367	27.1	1 840	58.0	1 338	61.2	377	55.7
Napili-Honokowai CDP, Maui County	4 357	12.3	3 822	39.6	4 033	76.1	128	25.8	537	41.3	869	51.9	665	53.2	98	67.3
Omao CDP, Kauai County	1 140	12.8	994	82.2	1 036	36.3	17	—	204	40.2	307	47.9	281	52.3	15	—
Paaui CDP, Hawaii County	587	18.2	480	85.0	526	26.0	9	—	120	43.3	153	30.7	144	26.4	—	—
Pahala CDP, Hawaii County	1 422	23.4	1 089	97.2	1 334	20.3	54	42.6	364	74.7	344	58.7	289	59.2	35	88.6
Pahoa CDP, Hawaii County	1 099	27.0	802	85.3	1 045	35.3	95	52.6	494	53.8	283	46.6	226	48.7	32	31.3
Paia CDP, Maui County	2 106	12.3	1 848	75.1	1 938	59.1	43	30.2	385	38.7	457	56.0	359	55.4	72	51.4
Pakala Village CDP, Kauai County	601	18.3	491	94.3	553	16.1	26	—	151	64.9	158	27.8	130	33.8	14	—
Papaikou CDP, Hawaii County	1 607	7.6	1 485	92.1	1 503	31.6	12	—	289	45.7	451	37.5	330	35.5	69	42.0
Paukaa CDP, Hawaii County	520	15.2	441	76.9	493	27.2	18	—	150	25.3	149	26.8	118	25.4	17	58.8
Pearl City CDP, Honolulu County	30 993	10.1	27 859	76.8	28 879	34.7	591	44.2	5 595	52.1	7 830	43.4	6 834	43.5	687	43.8
Pepeekeo CDP, Hawaii County	1 784	16.9	1 482	90.7	1 626	24.7	40	10.0	597	61.6	460	50.7	368	49.7	68	64.7
Popu CDP, Kauai County	1 068	13.3	926	30.2	1 010	65.1	24	100.0	147	38.1	293	54.3	252	57.5	29	27.6
Princeville CDP, Kauai County	1 208	7.2	1 121	16.1	1 133	83.8	—	—	68	29.4	330	47.3	278	48.2	35	37.1
Puako CDP, Hawaii County	446	9.9	402	44.3	407	76.2	—	—	38	100.0	110	51.8	66	62.1	28	—
Puhi CDP, Kauai County	1 217	32.5	821	91.1	1 120	42.9	5	100.0	491	67.0	276	46.4	227	46.3	22	—
Pukalani CDP, Maui County	5 879	6.3	5 507	75.2	5 396	46.9	83	28.9	650	34.2	1 527	56.8	1 215	57.7	226	51.8
Punaluu CDP, Honolulu County	633	6.8	590	55.3	577	72.1	—	—	85	23.5	154	34.4	119	30.3	25	68.0
Pupukea CDP, Honolulu County	4 140	11.2	3 675	44.3	3 792	55.5	85	25.9	562	49.1	877	60.1	667	63.3	98	52.0
Schofield Barracks CDP, Honolulu County	19 597	5.0	18 609	6.8	17 101	94.2	515	28.7	2 114	34.8	3 523	87.4	3 420	87.0	46	100.0
Village Park CDP, Honolulu County	7 407	19.0	6 002	75.3	6 621	71.1	257	26.1	1 655	41.2	1 859	64.6	1 683	66.5	77	62.3
Volcano CDP, Hawaii County	1 484	3.7	1 429	69.3	1 359	51.7	—	—	96	6.3	376	58.8	294	54.8	56	71.4
Wahiawa CDP, Honolulu County	17 386	11.7	15 360	74.6	15 783	41.6	373	42.1	3 715	48.5	4 617	45.8	3 310	43.1	968	57.7
Waiailua CDP, Honolulu County	4 052	17.2	3 355	79.4	3 765	28.4	178	36.5	1 100	57.2	964	39.2	727	39.6	143	55.2
Waianae CDP, Honolulu County	8 758	6.3	8 208	85.9	7 990	37.8	155	27.1	1 124	32.2	1 861	57.5	1 577	58.8	431	59.9
Waihee-Waihehue CDP, Maui County	4 004	19.8	3 210	81.7	3 605	46.2	171	19.9	987	66.1	966	59.3	777	64.4	147	42.2
Waikane CDP, Honolulu County	689	5.4	652	89.6	640	29.7	29	—	65	29.2	141	44.7	102	46.1	24	33.3
Waikapu CDP, Maui County	797	14.4	682	85.2	755	28.5	13	46.2	219	50.7	170	46.5	115	54.8	29	44.8
Waikoloa Village CDP, Hawaii County	2 237	13.0	1 946	30.4	2 055	86.7	—	—	345	33.0	601	41.4	504	38.1	59	84.7
Waiiea-Makana CDP, Maui County	3 799	11.1	3 378	20.0	3 584	75.6	63	38.1	451	38.4	1 053	40.7	940	39.4	60	56.7
Wailua CDP, Kauai County	1 990	9.4	1 803	79.0	1 838	42.3	18	—	298	53.4	523	52.0	431	49.0	88	64.8
Wailua Homesteads CDP, Kauai County	3 870	6.5	3 620	56.0	3 537	57.4	127	11.8	384	27.6	995	54.4	816	53.3	133	55.6
Wailuku CDP, Maui County	10 620	9.5	9 611	80.8	9 965	39.2	232	27.6	1 961	47.3	2 515	41.6	2 020	43.0	336	42.0
Waimalu CDP, Honolulu County	29 967	12.7	26 150	67.6	27 897	53.9	635	22.2	4 852	46.3	7 753	47.7	6 724	47.7	702	51.7
Waimanalo CDP, Honolulu County	3 508	7.0	3 264	89.0	3 234	31.7	55	43.6	439	39.9	741	54.8	535	56.8	178	51.7
Waimanalo Beach CDP, Honolulu County	4 185	1.9	4 107	88.9	3 866	17.3	28	21.4	253	25.3	770	39.2	536	43.5	162	24.1
Waimaanalo CDP, Hawaii County	5 934	7.6	5 483	72.7	5 461	50.6	146	30.8	624	32.1	1 408	60.4	1 182	57.5	154	79.2
Waimoe CDP, Kauai County	1 835	13.2	1 593	87.5	1 714	38.7	31	16.1	388	64.7	418	40.2	350	41.1	49	34.7
Wainaku CDP, Hawaii County	1 323	17.1	1 097	90.3	1 209	36.6	56	—	298	52.3	342	43.0	256	46.5	76	36.8
Waipahu CDP, Honolulu County	31 435	26.6	23 064	82.6	28 785	45.5	1 587	37.0	10 502	57.8	6 677	52.2	4 921	50.8	1 228	63.5
Waipio CDP, Honolulu County	11 812	12.1	10 377	67.9	10 568	54.0	304	23.7	1 635	41.6	3 105	57.7	2 749	58.6	183	57.9
Waipio Acres CDP, Honolulu County	5 304	8.1	4 877	54.2	4 688	67.3	38	—	729	35.8	1 450	52.9	1 230	55.4	142	35.2
Wheeler AFB CDP, Honolulu County	2 600	6.0	2 443	12.4	2 200	94.5	15	100.0	245	42.0	706					

Table 3. Education and Veteran Status: 1990

[Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text]

State County County Subdivision Place	Persons 3 years and over enrolled in school				Persons 16 to 19 years					Persons 25 years and over			Civilian veterans 16 years and over	
	Preprimary school	Elementary or high school		College	Total	Not enrolled in school and not high school graduate				Total	Percent high school graduate or higher	Percent with bachelor's degree or higher	Total	65 years and over
		Total	Percent in private school			Total	Employed	Unemployed	Not in labor force					
The State -----	21 276	186 653	15.8	82 649	57 184	4 267	1 981	564	1 640	709 820	80.1	22.9	119 256	24 638
Hawaii County -----	2 597	23 840	8.8	5 502	5 855	464	203	63	198	77 099	77.7	18.5	13 655	3 089
Hilo division -----	831	7 796	6.1	2 737	2 244	179	47	34	98	25 476	78.3	20.5	4 632	1 089
Hilo CDP -----	803	7 457	6.1	2 618	2 186	174	47	34	93	24 181	79.2	20.9	4 437	1 065
Mountain View CDP (pt.) -----	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Wainaku CDP -----	20	243	7.0	79	53	5	—	—	5	877	62.1	12.0	125	24
Honokaa-Kukuihaele division -----	49	729	7.7	75	170	19	6	—	13	2 446	71.3	12.1	313	73
Honokaa CDP (pt.) -----	30	488	7.8	41	97	—	—	—	—	1 542	71.1	13.0	226	62
Kukuihaele CDP -----	—	27	—	7	—	—	—	—	—	161	58.4	8.7	9	—
Kau division -----	27	1 035	2.1	78	163	41	19	—	22	2 939	70.5	12.3	514	119
Hawaiian Ocean View CDP -----	9	131	—	16	11	5	—	—	—	757	80.3	17.2	223	57
Naalehu CDP -----	7	304	—	12	55	8	—	—	—	676	59.3	1.9	84	8
Pahala CDP -----	—	367	—	13	70	19	6	—	13	867	56.7	10.6	89	20
Volcano CDP (pt.) -----	—	22	100.0	—	—	—	—	—	—	46	100.0	50.0	14	5
Keaua-Mountain View division -----	392	3 043	11.8	470	601	55	28	11	16	8 724	73.0	16.3	1 668	368
Hawaiian Paradise Park CDP -----	92	770	13.0	115	159	7	—	—	7	2 068	79.1	21.0	378	87
Keaua CDP -----	32	271	—	88	73	5	—	—	5	1 024	51.2	7.6	133	26
Kurtistown CDP -----	39	135	31.9	20	28	—	—	—	—	552	67.0	18.1	91	26
Mountain View CDP (pt.) -----	50	814	11.1	88	128	18	11	7	—	1 961	74.3	14.1	354	104
Volcano CDP (pt.) -----	61	236	11.0	31	47	4	4	—	—	930	80.5	22.4	247	50
North Hilo division -----	9	372	4.6	30	95	8	—	—	8	1 045	59.6	10.0	107	28
Laupahoehoe CDP -----	9	155	—	8	31	—	—	—	—	346	67.6	16.5	63	19
North Kohala division -----	166	759	10.3	87	247	21	21	—	—	2 596	68.0	12.4	444	99
Halaula CDP -----	37	58	—	—	31	—	—	—	—	286	67.1	3.8	40	5
Hawi CDP -----	38	190	—	5	26	—	—	—	—	553	72.7	6.3	108	24
Kapaau CDP -----	33	157	32.5	18	82	21	21	—	—	669	61.6	9.1	76	18
North Kona division -----	477	3 874	11.3	994	945	48	34	—	14	14 693	86.0	20.5	2 795	640
Holualoa CDP -----	57	456	10.7	153	78	—	—	—	—	2 748	88.8	23.0	564	134
Honalo CDP -----	27	307	4.9	43	63	12	7	—	5	1 331	79.6	13.8	227	42
Kahaluu-Keaunohou CDP -----	46	335	26.6	58	65	—	—	—	—	1 457	87.4	31.8	319	126
Kailua CDP -----	182	1 866	9.3	571	483	18	18	—	—	5 711	84.3	17.2	1 047	201
Kalaoa CDP -----	133	786	10.9	156	212	18	9	—	9	2 945	88.5	21.9	562	125
Kealahou CDP (pt.) -----	5	33	—	—	8	—	—	—	—	87	90.8	5.7	24	—
Paauhau-Paauilo division -----	29	309	6.8	48	106	7	7	—	—	1 222	55.6	11.1	233	48
Honokaa CDP (pt.) -----	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Paauilo CDP -----	19	59	—	11	45	—	—	—	—	392	53.3	8.9	52	14
Pahoa-Kalapana division -----	127	1 624	7.0	333	329	27	10	17	—	3 954	75.1	13.6	702	164
Hawaiian Beaches CDP -----	73	785	2.0	95	170	17	5	12	—	1 522	77.0	14.4	303	58
Pahoa CDP -----	14	225	1.8	50	68	5	—	—	—	706	55.7	10.9	120	28
Papaikou-Wailea division -----	104	960	4.2	245	236	5	1	1	3	3 257	60.2	9.9	572	174
Hononu CDP -----	5	92	—	31	20	—	—	—	—	409	53.1	7.8	59	21
Papaikou CDP -----	26	264	—	53	70	1	—	—	—	1 102	67.8	10.3	191	62
Paukaa CDP -----	6	83	16.9	14	10	—	—	—	—	379	72.0	24.3	95	29
Pepeekeo CDP -----	13	427	6.1	113	107	3	—	—	3	1 020	49.7	4.8	153	44
South Kohala division -----	214	1 811	22.1	224	387	25	13	—	12	5 735	88.2	26.2	794	142
Puako CDP -----	11	91	34.1	11	10	—	—	—	—	298	80.9	19.8	38	8
Waikoloa Village CDP -----	39	241	37.8	83	83	22	13	—	9	1 561	94.7	39.1	163	52
Waimea CDP -----	137	1 399	18.6	130	277	3	—	—	3	3 557	84.9	20.0	508	74
South Kona division -----	172	1 528	5.1	181	332	29	17	—	12	5 012	81.3	20.3	881	145
Captain Cook CDP -----	56	499	6.4	87	115	17	—	—	—	1 791	84.2	22.7	319	34
Honaunau-Napoopoo CDP -----	30	532	—	82	119	—	—	—	—	1 516	82.0	22.2	211	28
Kealahou CDP (pt.) -----	40	155	12.9	—	41	12	—	—	12	912	80.4	12.7	196	61
Honolulu County -----	15 977	135 478	18.3	70 366	43 946	3 096	1 358	408	1 248	534 187	81.2	24.6	91 022	18 692
Ewa division -----	4 780	41 523	15.5	18 073	12 682	917	338	116	435	138 151	83.4	22.0	25 810	3 387
Aiea CDP -----	169	1 248	23.0	634	425	6	—	—	6	6 273	79.4	26.5	1 109	331
Barbers Point Housing CDP -----	20	186	3.8	139	52	5	—	—	—	1 141	90.1	9.6	201	—
Ewa Beach CDP -----	201	3 126	10.1	872	1 146	150	31	15	104	7 943	71.4	9.9	1 591	219
Ewa Valley CDP -----	23	822	36.0	169	53	4	4	—	—	1 382	87.7	24.4	212	—
Ewa Villages CDP -----	23	845	9.2	277	277	26	4	15	7	2 291	55.0	6.6	238	38
Halawa CDP -----	321	2 212	14.3	1 104	603	40	16	—	24	8 792	82.5	25.9	1 703	363
Hickam Housing CDP -----	316	1 709	10.7	639	255	13	—	—	13	3 407	94.4	31.3	349	—
Iroquois Point CDP -----	178	905	6.9	275	72	—	—	—	—	2 225	96.0	23.6	245	—
Makakilo City CDP -----	198	1 774	15.3	906	435	37	11	5	21	6 094	90.1	24.5	1 516	100
Mililani Town CDP -----	883	6 562	17.5	2 621	1 801	82	22	5	55	17 461	92.5	33.0	3 919	302
Pearl City CDP -----	583	5 211	18.6	2 613	1 813	83	39	15	29	19 703	83.9	15.9	4 239	780
Village Park CDP -----	220	1 605	22.4	580	360	19	7	7	5	4 417	89.9	23.0	746	76
Waimalu CDP -----	607	4 698	23.9	2 681	1 432	85	23	5	57	19 626	88.6	31.7	4 030	495
Waipahu CDP -----	354	6 166	9.7	1 959	1 973	260	150	21	89	18 236	65.7	7.6	2 561	516
Waipio CDP -----	309	1 920	20.1	879	470	8	—	—	—	7 360	91.3	31.8	1 334	59
Waipio Acres CDP -----	87	695	1.0	362	297	54	23	25	—	2 956	88.4	18.6	744	70
Honolulu division -----	5 973	50 961	22.7	35 208	17 527	1 323	688	186	449	265 051	79.8	27.5	42 297	11 400
Aliamanu CDP -----	259	2 130	1.1	641	326	10	—	—	—	3 807	94.3	11.4	645	11
Fort Shafter CDP -----	109	475	3.4	365	131	—	—	—	—	1 569	99.2	30.2	432	—
Honolulu CDP -----	5 605	48 356	23.9	34 202	17 070	1 313	678	186	449	259 675	79.5	27.7	41 220	11 389
Koolauloa division -----	367	3 952	7.7	2 485	1 455	64	15	7	42	9 989	80.7	24.0	1 464	222
Haulua CDP -----	42	854	7.5	175	257	13	—	—	13	1 767	70.2	11.8	342	45
Kaaawa CDP -----	25	239	7.5	94	70	12	—	—	7	796	83.2	27.4	156	41
Kahuku CDP -----	35	620	—	169	105	5	—	—	5	1 087	68.5	12.7	133	19
Kawela Bay CDP -----	15	22	50.0	47	—	—	—	—	—	351	95.4	25.1	53	16
Laie CDP -----	127	1 165	4.0	1 703	689	15	15	—	—	2 265	86.7	33.2	226	33
Punaluu CDP -----	—	82	9.8	26	43	—	—	—	—	411	86.1	26.0	78	9
Pupukea CDP -----	108	717	20.6	252	188	11	—	—	11	2 652	85.3	29.1	385	59
Koolaupoko division -----	2 917	19 929	25.5	8 874	6 395	330	188	38	94	72 221	86.3	27.6	13 293	2 514
Ahuimanu CDP -----	145	1 685	18.6	679	521	54	24							

Table 3. Education and Veteran Status: 1990—Con.

[Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text]

State County County Subdivision Place	Persons 3 years and over enrolled in school				Persons 16 to 19 years					Persons 25 years and over			Civilian veterans 16 years and over	
	Preprimary school	Elementary or high school		College	Total	Not enrolled in school and not high school graduate				Total	Percent high school graduate or higher	Percent with bachelor's degree or higher	Total	65 years and over
		Total	Percent in private school			Total	Employed	Unemployed	Not in labor force					
Honolulu County—Con.														
Waialua division	134	2 153	9.6	646	709	17	9	—	8	7 005	75.0	15.0	1 116	204
Haleiwa CDP	33	433	18.7	142	113	—	—	—	—	1 329	76.2	10.9	227	45
Mokuleia CDP	9	187	—	155	50	—	—	—	—	998	94.6	23.4	209	37
Waialua CDP	75	781	4.1	188	262	17	9	—	8	2 622	64.5	11.2	361	79
Waianae division	795	9 459	7.5	1 726	2 543	306	99	37	170	19 650	68.6	8.9	3 651	494
Maui CDP	91	1 624	6.6	363	433	37	—	15	22	3 168	66.7	8.2	519	73
Makaha CDP	164	1 986	9.1	352	470	83	39	14	30	4 367	70.6	13.7	863	130
Makaha Valley CDP	—	32	—	54	18	10	—	—	10	494	96.6	28.7	147	18
Nanakuli CDP	169	2 548	6.8	309	710	56	26	—	30	4 808	66.7	3.5	768	86
Waianae CDP	270	2 336	9.2	475	731	108	34	8	66	4 531	68.6	7.7	945	122
Kalawao County	—	—	—	6	—	—	—	—	—	130	51.5	4.6	33	—
Kalawao division	—	—	—	6	—	—	—	—	—	130	51.5	4.6	33	—
Kauai County	948	9 827	9.4	2 454	2 522	175	92	33	50	33 045	73.1	16.3	4 906	919
Eleele-Kalaheo division	98	1 317	4.3	348	365	32	18	7	7	4 190	73.5	17.1	676	164
Eleele CDP (pt.)	10	304	3.6	66	69	—	—	—	—	936	58.7	17.3	90	41
Hanapepe CDP (pt.)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Kalaheo CDP	56	685	3.8	206	190	25	11	7	7	2 310	76.8	16.8	367	88
Lawai CDP (pt.)	27	210	9.0	59	51	7	7	—	—	617	86.7	13.1	178	28
Omao CDP (pt.)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hanalei division	66	820	8.2	215	135	22	22	—	—	3 011	86.3	23.2	481	115
Hanalei CDP	2	58	—	15	20	12	12	—	—	279	68.5	9.0	51	9
Kalihiwai CDP	4	91	30.8	22	20	—	—	—	—	340	90.9	16.5	27	6
Kilauea CDP	48	418	6.9	73	44	—	—	—	—	1 026	84.6	18.4	175	45
Princeville CDP	12	159	—	88	29	—	—	—	—	907	92.3	37.6	191	48
Kapaa division	162	1 480	11.8	259	362	34	21	5	8	4 093	71.3	10.1	527	56
Kapaa CDP (pt.)	162	1 480	11.8	259	362	34	21	5	8	4 093	71.3	10.1	527	56
Kaumakani-Hanapepe division	50	497	5.4	105	139	22	10	—	12	1 880	58.8	8.9	294	81
Eleele CDP (pt.)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hanapepe CDP (pt.)	7	208	—	39	58	10	10	—	—	944	72.6	9.7	176	62
Kaumakani CDP	20	163	—	28	37	—	—	—	—	481	42.8	9.1	47	12
Pakala Village CDP	16	89	30.3	38	44	12	—	—	12	389	38.0	4.1	54	7
Kekaha-Waimea division	155	1 127	11.4	235	336	22	6	16	—	3 578	64.5	12.4	538	116
Kekaha CDP	95	741	12.7	148	227	16	—	16	—	2 110	60.3	9.3	355	62
Waimea CDP	50	336	8.0	75	99	6	6	—	—	1 208	67.5	16.2	151	54
Koloa-Poipu division	61	962	.9	228	210	—	—	—	—	3 270	71.8	17.8	502	76
Koloa CDP	28	268	—	79	62	—	—	—	—	1 072	57.5	8.7	105	25
Lawai CDP (pt.)	5	199	—	43	28	—	—	—	—	622	70.4	24.9	119	18
Omao CDP (pt.)	28	285	3.2	49	32	—	—	—	—	736	70.5	16.3	101	—
Poipu CDP	—	182	—	57	73	—	—	—	—	769	94.8	26.9	167	33
Lihue division	107	754	10.6	314	196	14	—	—	14	3 850	77.8	21.0	679	122
Lihue CDP (pt.)	107	754	10.6	314	196	14	—	—	14	3 850	77.8	21.0	679	122
Niihau division	4	58	—	—	5	—	—	—	—	107	14.0	—	—	—
Puhi-Hanamaulu division	86	1 131	6.7	348	370	26	15	5	6	3 306	60.7	11.0	317	46
Hanamaulu CDP	58	872	7.6	197	223	5	—	5	—	2 084	56.2	9.7	174	34
Lihue CDP (pt.)	19	54	—	37	25	—	—	—	—	149	94.0	38.3	20	—
Puhi CDP	—	183	5.5	70	99	12	6	—	6	827	61.2	7.3	68	6
Wailua-Anahola division	159	1 681	18.2	402	404	3	—	—	3	5 760	83.1	20.4	892	143
Anahola CDP	46	257	17.9	82	70	—	—	—	—	734	77.0	9.8	131	13
Kapaa CDP (pt.)	16	208	21.6	72	66	—	—	—	—	902	78.7	14.6	157	33
Wailua CDP	62	394	19.5	91	67	—	—	—	—	1 321	83.3	18.7	245	41
Wailua Homesteads CDP	35	776	17.8	142	201	3	—	—	3	2 475	89.4	27.8	322	44
Maui County	1 754	17 508	10.0	4 321	4 861	532	328	60	144	65 359	77.0	17.8	9 640	1 938
East Molokai division	104	1 053	2.4	107	177	4	4	—	—	2 583	65.5	13.9	421	86
Kaunakakai CDP	68	558	2.3	54	99	—	—	—	—	1 546	67.3	13.0	251	66
Haiku-Pauwela division	80	1 190	10.8	226	262	25	10	—	15	3 672	79.5	20.8	521	85
Haiku-Pauwela CDP	46	988	11.3	140	215	25	10	—	15	2 929	78.5	18.6	451	78
Hana division	36	380	9.7	17	79	7	—	—	7	1 204	74.8	14.1	313	53
Hana CDP	8	116	19.8	—	32	—	—	—	—	389	74.0	8.5	130	11
Kahului division	249	2 872	3.7	1 108	887	99	54	9	36	10 722	66.9	13.1	1 352	312
Kahului CDP (pt.)	249	2 872	3.7	1 108	887	99	54	9	36	10 722	66.9	13.1	1 352	312
Kihei division	217	1 870	9.1	542	509	49	42	7	—	8 878	87.0	20.3	1 423	319
Kihei CDP	181	1 651	5.7	497	474	49	42	7	—	7 290	85.6	18.0	1 151	225
Maialaea CDP	4	18	—	—	3	—	—	—	—	601	96.2	30.3	87	46
Wailea-Makena CDP (pt.)	32	201	38.3	45	32	—	—	—	—	970	91.0	30.1	185	48
Kula division	227	1 268	22.7	335	263	13	5	—	8	5 671	86.7	31.2	930	271
Wailea-Makena CDP (pt.)	44	289	14.5	67	35	—	—	—	—	1 934	90.5	36.4	349	97
Lahaina division	146	1 932	11.1	488	800	120	84	7	29	9 749	78.2	14.4	1 292	228
Kaanapali CDP	—	21	—	23	15	—	—	—	—	502	98.2	33.5	83	32
Kapalua CDP	—	77	9.1	19	77	16	16	—	—	210	100.0	39.0	41	16
Lahaina CDP	63	1 383	12.1	343	547	83	47	7	29	5 860	72.9	10.5	776	120
Napili-Honokowai CDP	77	431	9.3	103	155	21	21	—	—	3 104	83.4	16.5	382	60
Lanai division	86	429	2.3	20	103	—	—	—	—	1 587	48.3	9.7	172	32
Lanai City CDP	86	429	2.3	20	103	—	—	—	—	1 573	47.8	9.8	172	32
Makawao-Paia division	316	3 055	15.9	797	883	88	43	10	35	9 446	82.4	17.1	1 438	204
Haliimaile CDP	7	149	11.4	66	53	—	—	—	—	582	60.0	15.1	26	17
Makawao CDP	112	1 124	11.3	179	268	10	10	—	—	3 185	84.9	15.8	412	36
Paia CDP	42	376	20.2	158	118	12	6	—	6	1 332	79.6	14.3	199	57
Pukalani CDP	146	1 203	15.9	286	327	55	21	10	24	3 609	84.9	16.4	706	84
Punene division	—	14	—	8	9	4	4	—	—	158	55.1	10.8	31	10
Kahului CDP (pt.)	—	14	—	8	9	4	4	—	—	158	55.1	10.8	31	10
Spreckelsville division	4	36	80.6	30	11	—	—	—	—	133	93.2	73.7	27	—
Kahului CDP (pt.)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Waihee-Waikapu division	61	617	9.4	91	158	21	21	—	—	1 366	76.8	20.4	165	46
Waihee-Waiehu CDP (pt.)	32	212	13.2	23	43	—	—	—	—	582	70.6	15.6	63	22
Waikapu CDP	10	239	7.9	46	75	21	21	—	—	403	73.9	18.1	51	19
Wailuku CDP (pt.)	8	83	9.6	8	20	—	—	—	—	235	100.0	39.6	38	—
Wailuku division	192	2 219	7.6	5										

Table 4. Education and Veteran Status: 1990

[Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text]

State County Place and [In Selected States] County Subdivision	Persons 3 years and over enrolled in school				Persons 16 to 19 years					Persons 25 years and over			Civilian veterans 16 years and over	
	Preprimary school	Elementary or high school		College	Total	Not enrolled in school and not high school graduate				Total	Percent high school graduate or higher	Percent with bachelor's degree or higher	Total	65 years and over
		Total	Percent in private school			Total	Employed	Unemployed	Not in labor force					
The State -----	21 276	186 653	15.8	82 649	57 184	4 267	1 981	564	1 640	709 820	80.1	22.9	119 256	24 638
COUNTY														
Hawaii County -----	2 597	23 840	8.8	5 502	5 855	464	203	63	198	77 099	77.7	18.5	13 655	3 089
Honolulu County -----	15 977	135 478	18.3	70 366	43 946	3 096	1 358	408	1 248	534 187	81.2	24.6	91 022	18 692
Kalawao County -----	—	—	—	6	—	—	—	—	—	130	51.5	4.6	33	—
Kauai County -----	948	9 827	9.4	2 454	2 522	175	92	33	50	33 045	73.1	16.3	4 906	919
Maui County -----	1 754	17 508	10.0	4 321	4 861	532	328	60	144	65 359	77.0	17.8	9 640	1 938
PLACE AND COUNTY SUBDIVISION														
Ahuimanu CDP, Honolulu County -----	145	1 685	18.6	679	521	54	24	10	20	5 030	89.7	32.1	807	86
Aiea CDP, Honolulu County -----	169	1 248	23.0	634	425	6	—	—	6	6 273	79.4	26.5	1 109	331
Aliamanu CDP, Honolulu County -----	259	2 130	1.1	641	326	10	10	—	—	3 807	94.3	11.4	645	11
Anahola CDP, Kauai County -----	46	257	17.9	82	70	—	—	—	—	734	77.0	9.8	131	13
Barbers Point Housing CDP, Honolulu County -----	20	186	3.8	139	52	5	—	—	—	1 141	90.1	9.6	201	—
Captain Cook CDP, Hawaii County -----	56	499	6.4	87	115	17	17	—	—	1 791	84.2	22.7	319	34
Eleele CDP, Kauai County -----	10	304	3.6	66	69	—	—	—	—	936	58.7	17.3	90	41
Ewa Beach CDP, Honolulu County -----	201	3 126	10.1	872	1 146	150	31	15	104	7 943	71.0	9.9	1 591	219
Ewa Gentry CDP, Honolulu County -----	49	222	36.0	169	53	4	4	—	—	1 382	87.7	24.4	212	—
Ewa Villages CDP, Honolulu County -----	23	845	9.2	277	277	26	4	15	7	2 291	55.0	6.6	238	38
Fort Shafter CDP, Honolulu County -----	109	475	3.4	365	131	—	—	—	—	1 569	99.2	30.2	432	—
Haiku-Pauwela CDP, Maui County -----	46	988	11.3	140	215	25	10	—	15	2 929	78.5	18.6	451	78
Halaupa CDP, Hawaii County -----	37	58	—	—	31	—	—	—	—	286	67.1	3.8	40	5
Halawa CDP, Honolulu County -----	321	2 212	14.3	1 104	603	40	16	—	24	8 792	82.5	25.9	1 703	363
Haleiwa CDP, Honolulu County -----	33	433	18.7	142	113	—	—	—	—	1 329	76.2	10.9	227	45
Haliimaile CDP, Maui County -----	7	149	11.4	66	53	—	—	—	—	582	60.0	15.1	26	17
Hana CDP, Maui County -----	8	116	19.8	—	32	—	—	—	—	389	74.0	8.5	130	11
Hanalei CDP, Kauai County -----	2	58	—	15	20	12	12	—	—	279	68.5	9.0	51	9
Hanamaulu CDP, Kauai County -----	58	872	7.6	197	223	5	—	5	—	2 084	56.2	9.7	174	34
Hanapepe CDP, Kauai County -----	7	208	—	39	58	10	10	—	—	944	72.6	9.7	176	62
Haulua CDP, Honolulu County -----	42	854	7.5	175	257	13	—	—	13	1 767	70.2	11.8	342	45
Hawaiian Beaches CDP, Hawaii County -----	73	785	2.0	95	170	17	5	12	—	1 522	77.0	14.4	303	58
Hawaiian Ocean View CDP, Hawaii County -----	9	131	—	16	11	5	5	—	—	757	80.3	17.2	223	57
Hawaiian Paradise Park CDP, Hawaii County -----	92	770	13.0	115	159	7	—	—	7	2 068	79.1	21.0	378	87
Hawi CDP, Hawaii County -----	38	190	—	5	26	—	—	—	—	553	72.7	6.3	108	24
Heeia CDP, Honolulu County -----	104	783	45.2	507	262	11	—	6	5	3 389	91.2	36.6	714	123
Hickam Housing CDP, Honolulu County -----	316	1 709	10.7	639	255	13	—	—	13	3 407	94.4	31.3	349	—
Hilo CDP, Hawaii County -----	803	7 457	6.1	2 618	2 186	174	47	34	93	24 181	79.2	20.9	4 437	1 065
Holualoa CDP, Hawaii County -----	57	456	10.7	153	78	—	—	—	—	2 748	88.8	23.0	564	134
Honalo CDP, Hawaii County -----	27	307	4.9	43	63	12	7	—	5	1 331	79.6	13.8	227	42
Honaunau-Napoopoo CDP, Hawaii County -----	30	532	—	82	119	—	—	—	—	1 516	82.0	22.2	211	28
Honokaa CDP, Hawaii County -----	30	488	7.8	41	97	—	—	—	—	1 542	71.1	13.0	226	62
Honolulu CDP, Honolulu County -----	5 605	48 356	23.9	34 202	17 070	1 313	678	186	449	259 675	79.5	27.7	41 220	11 389
Honoumuli CDP, Hawaii County -----	5	92	—	31	20	—	—	—	—	409	53.1	7.8	59	21
Iroquois Point CDP, Honolulu County -----	178	905	6.9	275	72	—	—	—	—	2 225	96.0	23.6	245	—
Kaaawa CDP, Honolulu County -----	25	239	7.5	94	70	12	—	7	5	796	83.2	27.4	156	41
Kaanapali CDP, Maui County -----	—	21	—	23	15	—	—	—	—	502	98.2	33.5	83	32
Kahaluu CDP, Honolulu County -----	63	509	18.9	186	185	10	4	—	6	1 927	83.2	20.6	349	46
Kahaluu-Keaouhou CDP, Hawaii County -----	46	335	26.6	58	65	—	—	—	—	1 457	87.4	31.8	319	126
Kahuku CDP, Honolulu County -----	35	620	.8	169	105	5	—	—	5	1 087	68.5	12.7	133	19
Kahului CDP, Maui County -----	249	2 886	3.7	1 116	896	103	58	9	36	10 880	66.7	13.1	1 383	322
Kailua CDP, Hawaii County -----	182	1 866	9.3	571	483	18	18	—	—	5 711	84.3	17.2	1 047	201
Kailua CDP, Honolulu County -----	749	5 987	32.3	2 831	1 883	87	59	4	24	24 284	88.6	33.5	4 919	1 113
Kalaheo CDP, Kauai County -----	56	685	3.8	206	190	25	11	7	7	2 310	76.8	16.8	367	88
Kalaooa CDP, Hawaii County -----	133	786	10.9	156	212	18	9	—	9	2 945	88.5	21.9	562	125
Kalihiwai CDP, Kauai County -----	4	91	30.8	22	20	—	—	—	—	340	90.9	16.5	27	6
Kaneohe CDP, Honolulu County -----	962	5 906	25.1	2 557	1 708	80	60	—	20	23 055	83.8	24.9	4 280	752
Kaneohe Station CDP, Honolulu County -----	498	1 671	5.9	814	685	10	—	—	—	4 115	94.7	13.3	363	—
Kapaa CDP, Kauai County -----	178	1 688	13.0	331	428	34	21	5	8	4 995	72.7	10.9	684	89
Kapaa CDP, Hawaii County -----	33	157	32.5	18	82	21	21	—	—	669	61.6	9.1	76	18
Kapalua CDP, Maui County -----	—	77	9.1	19	77	16	16	—	—	210	100.0	39.0	41	16
Kaumakani CDP, Kauai County -----	20	163	—	28	37	—	—	—	—	481	42.8	9.1	47	12
Kaunakakai CDP, Maui County -----	68	558	2.3	54	99	—	—	—	—	1 546	67.3	13.0	251	66
Kawela Bay CDP, Honolulu County -----	15	22	50.0	47	—	—	—	—	—	351	95.4	25.1	53	16
Keau CDP, Hawaii County -----	32	271	—	88	73	5	—	—	5	1 024	51.2	7.6	133	26
Kealahou CDP, Hawaii County -----	45	188	10.6	49	12	—	—	—	12	999	81.3	12.1	220	61
Kekaha CDP, Kauai County -----	95	741	12.7	148	227	16	—	16	—	2 110	60.3	9.3	355	62
Kihei CDP, Maui County -----	181	1 651	5.7	497	474	49	42	7	—	7 290	85.6	18.0	1 151	225
Kilauea CDP, Kauai County -----	48	418	6.9	73	44	—	—	—	—	1 026	84.6	18.4	175	45
Koloa CDP, Kauai County -----	28	268	—	79	62	—	—	—	—	1 072	57.5	8.7	105	25
Kualapu CDP, Maui County -----	27	430	4.7	11	97	19	19	—	—	946	64.3	7.5	154	14
Kukuihaele CDP, Hawaii County -----	—	27	—	7	7	—	—	—	—	161	58.4	8.7	9	—
Kurtistown CDP, Hawaii County -----	39	135	31.9	20	28	—	—	—	—	552	67.0	18.1	91	26
Lahaina CDP, Maui County -----	63	1 383	12.1	343	547	83	47	7	29	5 860	72.9	10.5	776	120
Laie CDP, Honolulu County -----	127	1 165	4.0	1 703	689	15	15	—	—	2 265	86.7	33.2	226	33
Lanai City CDP, Maui County -----	86	429	2.3	20	103	—	—	—	—	1 573	47.8	9.8	172	32
Laupahoehoe CDP, Hawaii County -----	9	155	—	8	31	—	—	—	—	346	67.6	16.5	63	19
Lawai CDP, Kauai County -----	32	409	4.6	102	79	7	7	—	—	1 239	78.5	19.0	297	46
Lihue CDP, Kauai County -----	126	808	9.9	351	221	14	—	—	14	3 999	78.4	21.7	699	122
Maalea CDP, Maui County -----	4	18	—	—	3	—	—	—	—	601	96.2	30.3	87	46
Maiili CDP, Honolulu County -----	91	1 624	6.6	363	433	37	—	15	22	3 168	66.7	8.2	519	73
Makaha CDP, Honolulu County -----	164	1 986	9.1	352	470	83	39	14	30	4 367	70.6	13.7	863	130
Makaha Valley CDP, Honolulu County -----	—	32	—	54	18	10	—	—	10	494	96.6	28.7	147	18
Makalo City CDP, Honolulu County -----	198	1 774	15.3	906	435	37	11	5	21	6 094	90.1	24.5	1 516	100
Makawao CDP, Maui County -----	112	1 124	11.3	179	268	10	10	—	—	3 185	84.9	15.8	412	36
Maunaloa CDP, Maui County -----	9	118	12.7											

Table 4. Education and Veteran Status: 1990—Con.

[Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text]

State County Place and [In Selected States] County Subdivision	Persons 3 years and over enrolled in school				Persons 16 to 19 years					Persons 25 years and over			Civilian veterans 16 years and over	
	Preprimary school	Elementary or high school		College	Total	Not enrolled in school and not high school graduate				Total	Percent high school graduate or higher	Percent with bach- elor's degree or higher	Total	65 years and over
		Total	Percent in pri- vate school			Total	Employed	Unem- ployed	Not in labor force					
PLACE AND COUNTY SUBDIVISION— Con.														
Naalehu CDP, Hawaii County -----	7	304	—	12	55	8	8	—	—	676	59.3	1.9	84	8
Nanakuli CDP, Honolulu County -----	169	2 548	6.8	309	710	56	26	—	30	4 808	66.7	3.5	768	86
Napili-Honokowai CDP, Maui County -----	77	431	9.3	103	155	21	21	—	—	3 104	83.4	16.5	382	60
Omao CDP, Kauai County -----	28	285	3.2	49	32	—	—	—	—	736	70.5	16.3	101	—
Paaulo CDP, Hawaii County -----	19	59	—	11	45	—	—	—	—	392	53.3	8.9	52	14
Pahala CDP, Hawaii County -----	—	367	—	13	70	19	6	—	13	867	56.7	10.6	89	20
Paho CDP, Hawaii County -----	14	225	1.8	50	68	5	—	5	—	706	55.7	10.9	120	28
Paia CDP, Maui County -----	42	376	20.2	158	118	12	6	—	6	1 332	79.6	14.3	199	57
Pakala Village CDP, Kauai County -----	16	89	30.3	38	44	12	—	—	12	389	38.0	4.1	54	7
Papaikou CDP, Hawaii County -----	26	264	—	53	70	1	—	1	—	1 102	67.8	10.3	191	62
Paukaa CDP, Hawaii County -----	6	83	16.9	14	10	—	—	—	—	379	72.0	24.3	95	29
Pearl City CDP, Honolulu County -----	583	5 211	18.6	2 613	1 813	83	39	15	29	19 703	83.9	15.9	4 239	780
Pepeekeo CDP, Hawaii County -----	13	427	6.1	113	107	3	—	—	3	1 020	49.7	4.8	153	44
Poipu CDP, Kauai County -----	—	182	—	57	73	—	—	—	—	769	94.8	26.9	167	33
Princeville CDP, Kauai County -----	12	159	—	88	29	—	—	—	—	907	92.3	37.6	191	48
Puako CDP, Hawaii County -----	11	91	34.1	11	10	—	—	—	—	298	80.9	19.8	38	8
Puhi CDP, Kauai County -----	—	183	5.5	70	99	12	6	—	6	827	61.2	7.3	68	6
Pukalani CDP, Maui County -----	146	1 203	15.9	286	327	55	21	10	24	3 609	84.9	16.4	706	84
Punaluu CDP, Honolulu County -----	—	82	9.8	26	43	—	—	—	—	411	86.1	26.0	78	9
Pupukea CDP, Honolulu County -----	108	717	20.6	252	188	11	—	—	11	2 652	85.3	29.1	385	59
Schofield Barracks CDP, Honolulu County ---	630	3 272	4.1	1 706	1 452	62	—	7	11	7 720	94.4	14.5	797	—
Village Park CDP, Honolulu County -----	220	1 605	22.4	580	360	19	7	7	5	4 417	89.9	23.0	746	76
Volcano CDP, Hawaii County -----	61	258	18.6	31	47	4	4	—	—	976	81.5	23.7	261	55
Wahiawa CDP, Honolulu County -----	252	2 927	6.4	1 185	871	69	13	17	39	10 745	74.7	11.8	2 190	435
Waialua CDP, Honolulu County -----	75	781	4.1	188	262	17	9	—	8	2 622	64.5	11.2	361	79
Waianae CDP, Honolulu County -----	270	2 336	9.2	475	731	108	34	8	66	4 531	68.6	7.7	945	122
Waihee-Waihehue CDP, Maui County -----	96	931	12.1	139	228	19	10	9	—	2 362	75.4	21.4	258	32
Waikane CDP, Honolulu County -----	6	161	37.3	17	52	11	—	8	3	412	79.1	14.6	81	10
Waikapu CDP, Maui County -----	10	239	7.9	46	75	21	21	—	—	403	73.9	18.1	51	19
Waikoloa Village CDP, Hawaii County -----	39	241	37.8	83	83	22	13	—	9	1 561	94.7	39.1	163	52
Wailea-Makena CDP, Maui County -----	76	490	24.3	112	67	—	—	—	—	2 904	90.7	34.3	534	145
Wailua CDP, Kauai County -----	62	394	19.5	91	67	—	—	—	—	1 321	83.3	18.7	245	41
Wailua Homesteads CDP, Kauai County ----	35	776	17.8	142	201	3	—	—	3	2 475	89.4	27.8	322	44
Wailuku CDP, Maui County -----	136	1 583	5.7	433	441	64	32	18	14	7 409	76.3	18.3	1 200	262
Waimalu CDP, Honolulu County -----	607	4 698	23.9	2 681	1 432	85	23	5	57	19 626	88.6	31.7	4 030	495
Waimanalo CDP, Honolulu County -----	102	852	8.3	389	305	24	8	3	13	1 814	69.0	8.7	199	28
Waimanalo Beach CDP, Honolulu County ----	82	820	20.7	146	273	21	11	7	3	2 523	75.8	9.2	429	124
Waimea CDP, Hawaii County -----	137	1 399	18.6	130	277	3	—	—	3	3 557	84.9	20.0	508	74
Waimea CDP, Kauai County -----	50	336	8.0	75	99	6	6	—	—	1 208	67.5	16.2	151	54
Wainaku CDP, Hawaii County -----	20	243	7.0	79	53	5	—	—	5	877	62.1	12.0	125	24
Waipahu CDP, Honolulu County -----	354	6 166	9.7	1 959	1 973	260	150	21	89	18 236	65.7	7.6	2 561	516
Waipio CDP, Honolulu County -----	309	1 920	20.1	879	470	8	8	—	—	7 360	91.3	31.8	1 334	59
Waipio Acres CDP, Honolulu County -----	87	695	1.0	362	297	54	23	25	—	2 956	88.4	18.6	744	70
Wheeler AFB CDP, Honolulu County -----	69	431	7.9	258	100	—	—	—	—	1 233	95.8	18.3	206	—
Whitmore Village CDP, Honolulu County ----	19	715	6.7	138	194	8	8	—	—	1 983	59.9	6.4	171	30

Table 5. Employment Status and Journey to Work Characteristics: 1990

[Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text]

State County County Subdivision Place	Persons 16 years and over															
	Labor force										Worked in 1989			Females with own children under 6 years		
	Percent in labor force		Civilian labor force		Workers			Total	Worked 40 or more weeks in 1989		Total	Percent in labor force	Total	Percent in labor force		
	Total	Female	Total	Female	Total	Percent un-employed	Total		Means of transportation to work						Total	Usually worked 35 or more hours per week, 50 to 52 weeks
								Percent using car, truck, or van	Percent in carpools	Percent using public transportation						
The State -----	855 518	421 315	70.4	63.3	548 347	3.5	567 765	81.0	20.5	7.4	639 859	512 561	380 096	68 218	63.4	57 489
Hawaii County -----	88 999	44 417	64.2	58.6	56 986	4.6	53 040	88.1	19.0	1.3	62 296	47 281	34 258	7 584	60.5	6 274
Hilo division -----	29 926	15 489	62.2	57.1	18 523	4.3	17 423	90.8	18.1	1.0	20 219	15 422	11 324	2 353	60.2	1 840
Hilo CDP -----	28 495	14 794	62.9	57.5	17 827	4.3	16 775	90.8	17.9	1.0	19 340	14 739	10 824	2 204	59.8	1 767
Mountain View CDP (pt.) -----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wainaku CDP -----	1 004	531	49.9	46.0	501	5.4	461	92.8	30.4	-	584	453	321	127	60.6	45
Honokaa-Kukuihaele division -----	2 762	1 334	63.0	57.6	1 732	5.8	1 591	87.7	19.9	4.3	1 854	1 513	1 126	218	69.7	262
Honokaa CDP (pt.) -----	1 717	820	59.6	52.6	1 015	4.8	965	87.8	21.6	6.5	1 112	916	679	118	58.5	133
Kukuihaele CDP -----	192	110	69.8	70.0	134	3.0	130	87.7	5.4	-	140	119	60	10	100.0	26
Kau division -----	3 227	1 965	61.2	56.2	1 965	6.9	1 803	82.4	20.7	3.3	2 152	1 587	1 019	291	56.0	171
Hawaiian Ocean View CDP -----	774	358	66.4	68.2	514	11.1	457	91.0	31.5	-	559	375	179	59	89.8	49
Naalehu CDP -----	765	398	56.7	46.2	434	12.4	380	85.8	33.9	-	460	355	280	76	44.7	29
Pahala CDP -----	991	470	54.2	49.8	537	4.7	503	85.9	1.2	10.1	607	452	273	90	32.2	27
Volcano CDP (pt.) -----	46	22	100.0	100.0	46	-	42	76.2	23.8	-	46	46	22	10	100.0	15
Keaau-Mountain View division -----	9 826	4 674	58.9	54.0	5 779	6.9	5 254	87.4	21.5	1.4	6 408	4 672	3 279	971	48.0	663
Hawaiian Paradise Park CDP -----	2 344	1 151	62.0	57.3	1 448	6.5	1 338	91.6	24.1	1.6	1 574	1 203	807	252	61.9	212
Keaau CDP -----	1 206	612	57.3	48.5	691	8.1	576	93.4	25.9	1.4	721	542	372	81	37.0	42
Kurtistown CDP -----	618	267	63.1	61.8	390	8.2	358	87.2	19.0	6	421	330	272	45	64.4	49
Mountain View CDP (pt.) -----	2 164	1 032	55.7	52.2	1 205	7.0	1 101	82.2	19.1	1.8	1 365	1 012	731	196	39.8	148
Volcano CDP (pt.) -----	1 029	477	60.9	49.3	627	4.5	594	77.6	13.8	-	702	503	343	128	42.2	45
North Hilo division -----	1 200	557	50.8	42.9	610	4.8	543	92.4	17.7	2.9	702	493	398	91	44.0	64
Laupahoehoe CDP -----	391	181	46.5	47.0	182	-	182	91.8	17.6	4.4	233	135	129	41	65.9	35
North Kohala division -----	3 118	1 516	66.0	65.2	2 044	3.9	1 941	84.2	27.8	3.3	2 286	1 761	1 354	272	71.3	345
Halaula CDP -----	342	177	69.0	68.4	236	4.2	221	89.6	24.4	8.6	256	223	184	38	86.8	41
Hawi CDP -----	630	321	64.4	62.9	406	5.9	382	85.3	22.8	2.4	482	351	308	50	58.0	75
Kapaau CDP -----	836	418	59.4	63.6	497	5.2	471	81.1	37.2	2.8	518	404	302	73	79.5	93
North Kona division -----	16 836	8 365	70.7	64.6	11 898	2.9	11 171	87.2	18.0	6	12 868	9 858	7 065	1 470	71.7	1 356
Holuaoa CDP -----	3 022	1 520	71.6	68.6	2 163	1.4	2 046	89.7	16.0	1.3	2 368	1 831	1 223	225	76.0	185
Honalo CDP -----	1 512	777	67.9	59.6	1 027	3.5	950	86.2	23.2	5	1 122	935	731	120	57.5	93
Kahaluu-Keauhou CDP -----	1 537	717	57.0	50.9	871	3.9	836	81.6	21.5	6	939	657	417	59	55.9	62
Kailua CDP -----	6 790	3 405	71.8	64.6	4 875	3.4	4 536	85.1	19.5	6	5 205	3 940	2 859	625	67.5	576
Kalaea CDP -----	3 363	1 651	76.0	71.7	2 557	2.7	2 411	91.6	12.6	2	2 741	2 125	1 520	369	84.6	379
Kealahou CDP (pt.) -----	95	46	48.4	47.8	46	-	46	87.0	41.3	-	73	46	31	5	-	-
Paauhau-Paaulo division -----	1 401	671	60.0	46.5	833	2.6	819	90.5	12.6	1.0	963	750	517	129	56.6	102
Honokaa CDP (pt.) -----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Paaulo CDP -----	466	208	58.4	53.4	272	4.8	259	86.5	13.9	3.1	314	248	128	22	36.4	40
Pahoa-Kalapana division -----	4 633	2 374	57.3	49.4	2 653	8.7	2 332	85.6	21.8	-	2 784	1 855	1 135	412	51.9	262
Hawaiian Beaches CDP -----	1 826	968	52.6	40.3	961	16.0	773	88.2	12.7	-	964	633	434	190	46.8	102
Pahoa CDP -----	845	405	63.9	63.7	540	3.7	520	77.1	18.7	-	556	415	247	52	78.8	50
Papaikou-Wailea division -----	3 823	1 928	53.3	51.9	2 038	6.0	1 826	88.3	16.4	4.5	2 247	1 707	1 345	267	49.8	210
Honolulu CDP -----	456	262	60.5	59.2	276	6.5	251	65.7	23.5	15.9	268	211	180	24	41.7	13
Papaikou CDP -----	1 265	657	59.0	59.4	746	6.0	659	94.1	12.4	1.2	819	653	516	81	55.6	63
Paukaa CDP -----	416	202	52.9	54.5	220	-	220	94.1	11.8	2.7	225	193	149	14	50.0	22
Pepeekeo CDP -----	1 244	601	46.0	42.4	572	10.3	474	91.4	16.9	3.0	690	451	328	109	34.9	61
South Kohala division -----	6 613	3 199	73.9	66.3	4 882	2.8	4 646	87.6	20.3	1.5	5 413	4 424	3 409	683	56.2	485
Puako CDP -----	321	121	67.6	64.5	217	-	199	74.4	18.6	-	260	221	104	19	-	-
Waikoloa Village CDP -----	1 812	841	77.4	61.6	1 402	1.4	1 330	88.6	24.8	1.3	1 525	1 296	960	204	34.3	79
Waimea CDP -----	4 140	2 049	72.7	67.3	3 006	3.5	2 870	88.5	17.8	1.6	3 313	2 687	2 201	442	67.0	379
South Kona division -----	5 634	2 750	71.5	65.2	4 029	6.1	3 691	84.9	16.6	-	4 400	3 239	2 287	427	70.7	514
Captain Cook CDP -----	2 021	980	74.4	67.2	1 504	4.5	1 382	86.1	10.3	-	1 623	1 282	1 009	167	83.2	209
Honauau-Napoopoo CDP -----	1 731	844	74.5	71.0	1 290	5.0	1 215	80.2	19.0	-	1 401	1 038	616	105	59.0	115
Kealahou CDP (pt.) -----	959	491	64.1	59.3	615	9.8	555	89.2	12.8	-	719	526	348	73	84.9	77
Honolulu County -----	651 920	320 345	71.1	63.6	410 023	3.5	437 518	78.6	20.9	9.3	490 444	396 145	295 805	51 261	63.1	42 594
Ewa division -----	172 896	82 405	76.0	68.7	108 730	3.6	124 421	83.9	21.6	6.1	137 608	113 837	88 578	16 135	67.8	14 255
Aiea CDP -----	7 298	3 647	65.0	59.7	4 479	3.5	4 552	89.7	18.3	4.3	5 190	4 218	3 150	397	73.8	359
Barbers Point Housing CDP -----	1 681	762	87.3	76.6	589	20.9	1 319	76.1	12.7	-	1 547	1 258	986	382	72.8	328
Ewa Beach CDP -----	10 499	5 132	70.5	63.5	7 129	5.0	6 826	83.2	24.5	11.9	7 745	5 989	4 324	783	65.9	807
Ewa Gentry CDP -----	1 634	848	88.5	82.0	1 255	1.0	1 375	89.6	33.8	8.4	1 525	1 312	1 154	135	68.9	122
Ewa Villages CDP -----	2 855	1 402	67.4	62.3	1 899	4.8	1 790	83.0	25.4	14.4	1 973	1 503	1 128	191	68.6	200
Halawa CDP -----	10 403	5 177	71.2	64.4	6 785	3.2	6 926	87.0	25.1	5.3	7 881	6 402	4 723	784	74.9	808
Hickam Housing CDP -----	4 011	1 952	72.6	62.9	1 365	7.1	3 046	73.8	11.5	2.3	3 351	2 679	2 195	757	53.8	525
Iroquois Point CDP -----	2 438	1 199	73.6	49.4	653	8.0	1 714	83.7	12.9	5.4	1 926	1 557	1 248	572	34.6	272
Makakilo City CDP -----	7 286	3 432	69.6	61.6	4 768	4.8	5 402	93.2	18.8	4.0	6 006	5 024	4 027	796	70.6	627
Mililani Town CDP -----	20 829	10 383	80.1	72.9	15 139	2.1	16 003	91.8	22.3	4.3	17 614	14 632	11 795	2 392	72.6	2 021
Pearl City CDP -----	24 389	12 193	72.5	67.1	15 997	2.5	16 901	89.3	22.1	6.3	18 826	15 457	11 951	1 667	65.4	1 534
Village Park CDP -----	5 139	2 503	84.7	81.0	3 988	2.0	4 133	94.0	28.8	4.5	4 553	3 886	3 200	655		

Table 5. Employment Status and Journey to Work Characteristics: 1990—Con.

[Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text]

State County County Subdivision Place	Persons 16 years and over														Own children under 6 years in families and subfamilies, all parents in household in labor force		
	Labor force								Worked in 1989			Females with own children under 6 years					
	Percent in labor force		Civilian labor force		Workers				Total	Worked 40 or more weeks in 1989		Total	Percent in labor force				
	Total	Female	Total	Female	Total	Percent un- employed	Means of transportation to work			Total	Usually worked 35 or more hours per week, 50 to 52 weeks						
							Percent using car, truck, or van	Percent in carpools	Percent using public trans- portation								
Kauai County—Con.																	
Koloa-Poipu division	3 756	1 888	68.9	59.1	2 577	1.5	2 470	92.7	16.9	—	2 725	2 225	1 434	270	79.3	286	
Koloa CDP	1 314	651	65.8	58.8	864	3.2	800	91.5	17.1	—	891	682	441	113	83.2	116	
Lawai CDP (pt.)	680	314	68.5	63.7	466	—	466	98.9	16.5	—	512	426	286	26	80.8	24	
Omao CDP (pt.)	801	388	70.3	57.5	563	—	547	96.7	23.6	—	598	504	333	75	69.3	88	
Poipu CDP	875	478	71.3	56.1	614	1.8	604	86.4	12.4	—	659	548	324	56	83.9	58	
Lihue division	4 315	2 165	66.1	58.0	2 844	4.2	2 702	91.3	15.3	—	3 115	2 467	1 919	209	66.5	172	
Lihue CDP (pt.)	4 315	2 165	66.1	58.0	2 844	4.2	2 702	91.3	15.3	—	3 115	2 467	1 919	209	66.5	172	
Niihau division	141	75	9.9	14.7	14	21.4	11	100.0	—	—	78	69	32	29	37.9	7	
Puhi-Hanamaulu division	4 027	1 936	69.5	67.1	2 790	2.8	2 664	95.3	16.3	.4	2 858	2 337	1 748	372	84.1	406	
Hanamaulu CDP	2 551	1 268	66.9	65.9	1 698	2.9	1 624	95.8	17.4	.7	1 651	1 364	1 053	209	87.1	282	
Lihue CDP (pt.)	190	104	86.8	80.8	165	—	165	100.0	10.9	—	171	142	92	9	100.0	19	
Puhi CDP	988	468	79.8	69.2	788	2.4	744	94.1	18.1	—	819	669	503	120	95.0	95	
Wailua-Anahola division	6 627	3 397	71.7	66.3	4 750	5.1	4 399	93.0	17.0	.3	5 011	3 988	2 873	612	63.6	506	
Anahola CDP	898	452	63.1	52.4	567	9.7	487	93.0	15.0	.8	577	421	325	78	55.1	61	
Kapaa CDP (pt.)	1 064	529	66.9	57.3	712	5.8	646	93.7	13.5	—	770	628	415	93	57.0	58	
Wailua CDP	1 470	792	71.7	64.9	1 054	3.9	1 013	92.0	14.1	—	1 110	923	692	158	68.4	126	
Wailua Homesteads CDP	2 831	1 440	77.9	75.4	2 204	4.8	2 044	93.0	19.0	.4	2 298	1 826	1 290	243	68.7	241	
Maui County	76 121	37 374	72.5	66.2	55 112	2.7	52 162	88.4	19.9	.9	58 806	46 602	33 880	6 145	65.5	5 638	
East Molokai division	2 931	1 544	62.4	60.8	1 829	6.0	1 712	84.8	11.7	1.9	1 978	1 486	1 062	337	58.5	334	
Kaunakakai CDP	1 723	927	64.9	63.8	1 119	4.2	1 072	85.4	9.0	.6	1 177	914	677	204	67.6	239	
Haiku-Pauwela division	4 137	1 980	73.5	66.1	3 040	2.6	2 918	90.0	14.2	—	3 326	2 434	1 773	455	49.9	244	
Haiku-Pauwela CDP	3 295	1 577	73.0	65.3	2 404	2.7	2 296	90.8	15.2	—	2 646	1 998	1 418	375	50.9	186	
Hana division	1 337	572	64.1	60.3	857	1.4	840	78.5	20.7	—	930	718	446	109	56.0	120	
Hana CDP	1 442	189	62.7	55.6	277	2.2	271	86.3	26.6	—	319	249	138	27	44.4	38	
Kahului division	12 804	6 493	68.0	61.4	8 705	2.6	8 231	95.2	23.8	.8	9 308	7 719	5 600	879	68.7	897	
Kahului CDP (pt.)	12 804	6 493	68.0	61.4	8 705	2.6	8 231	95.2	23.8	.8	9 308	7 719	5 600	879	68.7	897	
Kihei division	10 221	4 844	78.6	71.4	8 001	3.0	7 503	89.7	19.7	.8	8 490	6 838	4 911	812	64.2	687	
Kihei CDP	8 561	4 059	81.2	74.3	6 931	3.5	6 474	90.9	19.2	.8	7 241	5 885	4 230	665	69.2	636	
Maalaea CDP	625	292	71.4	68.2	432	—	434	81.6	29.0	2.1	514	393	278	28	39.3	—	
Wailaea-Makena CDP (pt.)	1 018	484	62.7	50.6	638	—	595	82.7	19.3	—	726	551	403	119	42.0	51	
Kula division	6 234	3 119	70.3	62.2	4 374	2.2	4 146	84.8	15.9	.2	4 736	3 714	2 712	534	69.1	454	
Wailaea-Makena CDP (pt.)	2 056	981	69.3	61.7	1 425	2.0	1 360	86.3	12.5	.5	1 532	1 207	895	126	53.2	84	
Lahaina division	11 704	5 631	77.4	72.0	9 060	1.3	8 716	80.3	19.1	1.3	9 584	7 688	5 502	804	61.6	774	
Kaanapali CDP	517	294	66.7	61.2	345	—	345	73.6	18.0	—	390	296	185	22	54.5	11	
Kapula CDP	346	112	72.0	45.5	249	—	238	54.2	25.2	—	242	161	114	6	—	—	
Lahaina CDP	7 194	3 501	77.6	74.0	5 586	1.5	5 331	81.1	19.6	1.4	5 896	4 801	3 444	419	79.0	541	
Napili-Honokowai CDP	3 553	1 685	79.3	72.2	2 816	1.1	2 738	82.0	18.1	1.2	3 002	2 371	1 715	335	43.9	201	
Lanai division	1 815	861	65.5	62.0	1 188	1.7	1 158	64.9	21.8	5.6	1 303	1 013	819	154	84.4	200	
Lanai City CDP	1 801	854	65.2	61.7	1 174	1.7	1 144	64.5	22.0	5.7	1 289	999	805	154	84.4	200	
Makawao-Paia division	11 243	5 484	74.5	67.1	8 368	3.4	7 870	92.8	21.3	.4	8 979	6 950	5 098	1 019	67.9	942	
Haliimalie CDP	676	355	62.4	62.0	422	—	387	96.1	18.9	2.3	427	310	237	29	65.5	42	
Makawao CDP	3 793	1 839	78.8	68.7	2 989	3.0	2 862	93.5	23.5	—	3 132	2 502	1 873	390	62.3	329	
Paia CDP	1 569	800	71.9	66.0	1 122	3.6	1 056	86.6	26.7	.9	1 209	952	619	105	77.1	147	
Pukalani CDP	4 247	2 083	73.1	66.7	3 103	3.0	2 922	95.9	17.2	.4	3 394	2 682	2 060	433	70.2	376	
Puunene division	182	80	52.7	43.8	96	15.6	79	62.0	17.7	27.8	107	57	41	4	100.0	6	
Kahului CDP (pt.)	182	80	52.7	43.8	96	15.6	79	62.0	17.7	27.8	107	57	41	4	100.0	6	
Spreckelsville division	152	84	65.1	54.8	99	—	95	78.9	4.2	—	105	75	36	8	50.0	4	
Kahului CDP (pt.)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Waihee-Waikapu division	1 604	774	67.0	62.7	1 075	1.3	1 016	95.5	18.0	.7	1 167	878	670	175	66.3	155	
Waihee-Waihehu CDP (pt.)	642	294	61.4	58.8	394	1.8	375	94.9	14.7	1.9	428	353	259	60	68.3	57	
Waikapu CDP	529	268	73.9	66.4	391	—	373	95.2	17.2	—	393	256	209	52	84.6	42	
Waikapu CDP (pt.)	255	137	74.5	69.3	190	3.7	177	100.0	24.9	—	231	190	156	37	70.3	41	
Waikuku division	10 285	5 174	72.1	67.5	7 420	3.1	6 969	91.6	22.8	.3	7 357	6 278	4 646	715	72.3	697	
Waihee-Waihehu CDP (pt.)	2 114	1 118	83.6	79.2	1 768	3.0	1 662	93.6	20.0	.6	1 789	1 454	1 090	255	75.7	276	
Waikuku CDP (pt.)	8 171	4 056	69.2	64.3	5 652	3.1	5 307	91.0	23.7	.2	5 968	4 824	3 556	460	70.4	421	
West Molokai division	1 472	734	67.9	62.4	1 000	4.9	909	85.1	9.1	3.5	1 036	854	564	140	64.3	124	
Kualapuu CDP	1 139	568	67.8	60.2	772	4.7	714	83.8	7.0	2.8	789	586	454	109	64.2	76	
Maunaloa CDP	259	132	72.2	77.3	187	7.0	154	92.2	17.5	7.8	186	127	85	31	64.5	48	

Table 6. Employment Status and Journey to Work Characteristics: 1990

[Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text]

State County Place and [In Selected States] County Subdivision	Persons 16 years and over															
	Labor force							Worked in 1989			Females with own children under 6 years		Own children under 6 years in families and subfamilies, all parents in household in labor force			
	Percent in labor force		Civilian labor force		Workers			Worked 40 or more weeks in 1989			Females with own children under 6 years					
	Total	Female	Total	Female	Total	Percent un- employed	Total	Means of transportation to work			Total	Usually worked 35 or more hours per week, 50 to 52 weeks		Total	Percent in labor force	
								Percent using car, truck, or van	Percent in carpools	Percent using public trans- portation		Total				Total
Total	Female	Total	Female	Total	Percent un- employed	Total	Percent using car, truck, or van	Percent in carpools	Percent using public trans- portation	Total	Total	Percent in labor force		Total	Percent in labor force	
The State -----	855 518	421 315	70.4	63.3	548 347	3.5	567 765	81.0	20.5	7.4	639 859	512 561	380 096	68 218	63.4	57 489
COUNTY																
Hawaii County -----	88 999	44 417	64.2	58.6	56 986	4.6	53 040	88.1	19.0	1.3	62 296	47 281	34 258	7 584	60.5	6 274
Honolulu County -----	651 920	320 345	71.1	63.6	410 023	3.5	437 518	78.6	20.9	9.3	490 444	396 145	295 805	51 261	63.1	42 594
Kalawao County -----	130	55	31.5	25.5	41	—	41	85.4	—	—	55	42	35	—	—	—
Kauai County -----	38 348	19 124	68.9	63.7	26 185	3.6	25 004	92.3	16.9	.2	28 258	22 491	16 118	3 228	70.5	2 983
Maui County -----	76 121	37 374	72.5	66.2	55 112	2.7	52 162	88.4	19.9	.9	58 806	46 602	33 880	6 145	65.5	5 638
PLACE AND COUNTY SUBDIVISION																
Ahuimanu CDP, Honolulu County -----	6 026	3 041	79.4	71.4	4 514	1.4	4 598	93.4	29.4	2.7	4 973	4 270	3 249	711	69.3	604
Aiea CDP, Honolulu County -----	7 298	3 647	65.0	59.7	4 479	3.5	4 552	89.7	18.3	4.3	5 190	4 218	3 150	397	73.8	359
Aliamanu CDP, Honolulu County -----	5 128	2 575	81.4	66.9	2 021	8.9	3 879	86.2	21.3	4.3	4 317	3 482	2 900	1 267	66.2	1 116
Anahola CDP, Kauai County -----	898	452	63.1	52.4	567	9.7	487	91.0	15.0	.8	577	421	325	78	55.1	61
Barbers Point Housing CDP, Honolulu County -----	1 681	762	87.3	76.6	589	20.9	1 319	76.1	12.7	—	1 547	1 258	986	382	72.8	328
Captain Cook CDP, Hawaii County -----	2 021	980	74.4	67.2	1 504	4.5	1 382	86.1	10.3	—	1 623	1 282	1 009	167	83.2	209
Eleele CDP, Kauai County -----	1 062	567	61.4	58.0	652	3.2	615	98.4	20.2	—	681	576	418	67	79.1	84
Ewa Beach CDP, Honolulu County -----	10 499	5 132	70.5	63.5	7 129	5.0	6 826	83.2	24.5	11.9	7 745	5 989	4 324	783	65.9	807
Ewa Gentry CDP, Honolulu County -----	1 634	848	88.5	82.0	1 255	1.0	1 375	89.6	33.8	8.4	1 525	1 312	1 154	135	68.9	122
Ewa Villages CDP, Honolulu County -----	2 855	1 402	67.4	62.3	1 899	4.8	1 790	83.0	25.4	14.4	1 973	1 503	1 128	191	68.6	200
Fort Shafter CDP, Honolulu County -----	2 049	909	82.8	66.2	832	5.2	1 630	75.2	13.1	4.0	1 773	1 467	1 209	301	60.8	260
Haiku-Pauwela CDP, Maui County -----	3 295	1 577	73.0	65.3	2 404	2.7	2 296	90.8	15.2	—	2 646	1 998	1 418	375	50.9	186
Halaula CDP, Hawaii County -----	342	177	69.0	68.4	236	4.2	221	89.6	24.4	8.6	256	223	184	38	86.8	41
Halaula CDP, Honolulu County -----	10 403	5 177	71.2	64.4	6 785	3.2	6 926	87.0	25.1	5.3	7 881	6 402	4 723	784	74.9	808
Haleiwa CDP, Honolulu County -----	1 598	777	61.4	51.9	905	6.2	889	79.8	13.5	10.1	1 096	823	520	141	50.4	77
Haliimalie CDP, Maui County -----	676	355	62.4	62.0	422	—	387	96.1	18.9	2.3	472	310	237	29	65.5	42
Hana CDP, Maui County -----	442	189	62.7	55.6	277	2.2	271	86.3	26.6	—	319	249	138	27	44.4	38
Hanalei CDP, Kauai County -----	313	154	64.2	60.4	201	6.0	189	88.9	24.3	—	217	155	79	13	—	—
Hanamaulu CDP, Kauai County -----	2 551	1 268	66.9	65.9	1 698	2.9	1 624	95.8	17.4	.7	1 651	1 364	1 053	209	87.1	282
Hanapepe CDP, Kauai County -----	1 079	508	62.7	57.3	661	3.8	638	91.1	17.4	—	733	578	411	110	88.2	117
Hauula CDP, Honolulu County -----	2 265	1 124	64.0	57.3	1 421	5.9	1 360	79.2	24.4	12.1	1 589	1 145	863	232	55.2	229
Hawaiian Beaches CDP, Hawaii County -----	1 826	968	52.6	40.3	961	16.0	773	88.2	12.7	—	964	633	434	190	46.8	102
Hawaiian Ocean View CDP, Hawaii County -----	774	358	66.4	68.2	514	11.1	457	91.0	31.5	—	559	375	179	59	89.8	49
Hawaiian Paradise Park CDP, Hawaii County -----	2 344	1 151	62.0	57.3	1 448	6.5	1 338	91.6	24.1	1.6	1 574	1 203	807	252	61.9	212
Hawi CDP, Hawaii County -----	630	321	64.4	62.9	406	5.9	382	85.3	22.8	2.4	482	351	308	50	58.0	75
Heeia CDP, Honolulu County -----	4 034	2 034	76.6	69.7	3 047	2.8	2 937	92.0	20.8	4.2	3 303	2 687	2 095	219	74.9	217
Hickam Housing CDP, Honolulu County -----	4 011	1 952	79.2	62.9	1 365	7.1	3 046	73.8	11.5	2.3	3 351	2 679	2 195	757	53.8	525
Hilo CDP, Hawaii County -----	28 495	14 794	62.9	57.5	17 827	4.3	16 775	90.8	17.9	1.0	19 340	14 739	10 824	2 204	59.8	1 767
Holualoa CDP, Hawaii County -----	3 022	1 520	71.6	68.6	2 163	1.4	2 046	89.7	16.0	1.3	2 368	1 831	1 223	225	76.0	185
Honalo CDP, Hawaii County -----	1 512	777	67.9	59.6	1 027	3.5	950	86.2	23.2	.5	1 122	935	731	120	57.5	93
Honauunau-Napoopoo CDP, Hawaii County -----	1 731	844	74.5	71.0	1 290	5.0	1 215	80.2	19.0	—	1 401	1 038	616	105	59.0	115
Honokaa CDP, Hawaii County -----	1 717	820	59.6	52.6	1 015	4.8	965	87.8	21.6	6.5	1 112	916	679	118	58.5	133
Honolulu CDP, Honolulu County -----	303 658	154 795	67.4	61.4	197 630	2.9	193 364	74.6	19.7	13.4	218 659	176 346	127 193	17 268	64.8	14 310
Honoumuli CDP, Hawaii County -----	456	262	60.5	59.2	276	6.5	251	65.7	23.5	15.9	268	211	180	24	41.7	13
Iroquois Point CDP, Honolulu County -----	2 438	1 199	73.6	49.4	653	8.0	1 714	83.7	12.9	5.4	1 926	1 577	1 248	572	34.6	272
Kaaawa CDP, Honolulu County -----	926	424	66.1	60.6	591	8.8	552	82.6	27.2	4.2	675	504	384	81	67.9	85
Kaanapali CDP, Maui County -----	517	294	66.7	61.2	345	—	345	73.6	18.0	—	380	296	185	22	54.5	11
Kahaluu CDP, Honolulu County -----	2 361	1 164	71.7	62.9	1 620	2.0	1 634	85.3	20.2	4.3	1 738	1 422	1 032	242	53.7	156
Kahaluu-Keauhou CDP, Hawaii County -----	1 537	717	57.0	50.9	871	3.9	836	81.6	21.5	.6	939	657	417	59	55.9	62
Kahuku CDP, Honolulu County -----	1 291	611	65.8	61.2	836	5.3	795	75.8	18.0	16.6	881	647	482	82	72.0	103
Kahului CDP, Maui County -----	12 986	6 573	67.8	61.2	8 801	2.8	8 310	94.9	23.8	1.1	9 415	7 776	5 641	883	68.9	903
Kailua CDP, Hawaii County -----	6 790	3 405	71.8	64.6	4 875	3.4	4 536	85.1	19.5	.6	5 205	3 940	2 859	625	67.5	576
Kailua CDP, Honolulu County -----	28 808	14 514	72.7	64.3	19 770	2.7	19 846	86.7	22.0	5.9	22 401	17 845	13 355	2 207	65.4	1 855
Kalaheo CDP, Kauai County -----	2 692	1 329	70.0	67.6	1 880	2.6	1 802	95.0	12.9	—	2 075	1 652	1 170	206	64.1	198
Kalaoa CDP, Hawaii County -----	3 363	1 651	76.0	71.7	2 557	2.7	2 411	91.6	12.6	.2	2 741	2 125	1 520	369	84.6	379
Kalihiwai CDP, Kauai County -----	378	201	84.4	81.1	319	—	276	72.8	4.7	—	322	255	106	42	85.7	29
Kaneohe CDP, Honolulu County -----	27 396	13 837	71.7	66.1	18 892	2.5	18 823	87.9	23.9	6.1	20 756	16 921	13 186	2 099	74.4	2 085
Kaneohe Station CDP, Honolulu County -----	8 164	2 176	87.1	54.0	1 354	5.1	6 902	53.5	18.9	1.4	7 342	6 164	5 192	1 231	43.1	758
Kapaa CDP, Kauai County -----	5 847	2 912	70.7	66.5	4 135	5.1	3 861	93.2	16.6	.4	4 517	3 510	2 444	626	69.0	576
Kapaa CDP, Hawaii County -----	836	418	59.4	63.6	497	5.2	471	81.1	37.2	2.8	518	404	302	73	79.5	93

Table 6. Employment Status and Journey to Work Characteristics: 1990—Con.

[Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text]

State County Place and [In Selected States] County Subdivision	Persons 16 years and over														
	Labor force										Worked in 1989			Females with own children under 6 years	
	Percent in labor force		Civilian labor force		Workers			Worked 40 or more weeks in 1989			Females with own children under 6 years				
	Total	Female	Total	Female	Total	Percent un- employed	Total	Means of transportation to work			Total	Total	Usually worked 35 or more hours per week, 50 to 52 weeks	Total	Percent in labor force
								Percent using car, truck, or van	Percent in carpools	Percent using public trans- portation					
PLACE AND COUNTY SUBDIVISION — Con.															
Kapalua CDP, Maui County	346	112	72.0	45.5	249	—	238	54.2	25.2	—	242	161	114	6	—
Kaunakani CDP, Kauai County	582	287	64.3	61.0	374	—	362	89.8	14.4	—	404	319	220	59	72.9
Kaunakakai CDP, Maui County	1 723	927	64.9	63.8	1 119	4.2	1 072	85.4	9.0	.6	1 177	914	677	204	67.6
Kawela Bay CDP, Honolulu County	364	161	72.8	48.4	251	—	256	80.9	21.5	—	285	232	152	28	50.0
Keaua CDP, Hawaii County	1 206	612	57.3	48.5	691	8.1	576	93.4	25.9	1.4	721	542	372	81	37.0
Kealahou CDP, Hawaii County	1 054	537	62.7	58.3	661	9.1	601	89.0	15.0	—	792	572	379	78	79.5
Kekaha CDP, Kauai County	2 546	1 295	63.0	58.0	1 565	4.6	1 523	92.2	23.0	—	1 673	1 354	1 065	179	64.8
Kihei CDP, Maui County	8 561	4 059	81.2	74.3	6 931	3.5	6 474	90.9	19.2	.8	7 241	5 885	4 230	665	69.2
Kilauea CDP, Kauai County	1 171	537	71.3	65.7	824	—	821	95.4	23.8	—	902	718	469	134	59.7
Koloa CDP, Kauai County	1 314	651	65.8	58.8	864	3.2	800	91.5	17.1	—	891	682	441	113	83.2
Kualapuu CDP, Maui County	1 139	568	67.8	60.2	772	4.7	714	83.8	7.0	2.8	789	586	454	109	64.2
Kukuihaele CDP, Hawaii County	192	110	69.8	70.0	134	3.0	130	87.7	5.4	—	140	119	60	10	100.0
Kurtistown CDP, Hawaii County	618	267	63.1	61.8	390	8.2	358	87.2	19.0	.6	421	330	272	45	64.4
Lahaina CDP, Maui County	7 194	3 501	77.6	74.0	5 586	1.5	5 331	81.1	19.6	1.4	5 896	4 801	3 444	419	79.0
Laike CDP, Honolulu County	3 997	2 190	72.2	68.1	2 887	4.2	2 711	45.4	15.3	3.6	3 195	2 009	990	397	39.3
Lanai City CDP, Maui County	1 801	854	65.2	61.7	1 174	1.7	1 144	64.5	22.0	5.7	1 289	999	805	154	84.4
Laupahoehoe CDP, Hawaii County	1 391	181	46.3	47.0	182	—	182	91.8	17.6	4.4	233	135	129	41	65.9
Lawai CDP, Kauai County	1 383	658	73.2	67.5	1 003	1.6	980	96.6	13.9	—	1 069	896	631	72	93.1
Lihue CDP, Kauai County	4 505	2 269	66.9	59.0	3 009	4.0	2 867	91.8	15.0	—	3 286	2 609	2 011	218	67.9
Maalaea CDP, Maui County	625	292	71.4	68.2	432	—	434	81.6	29.0	2.1	514	393	278	28	39.3
Maui CDP, Honolulu County	4 073	2 078	65.4	57.4	2 594	11.2	2 319	86.3	30.6	9.0	2 758	2 090	1 442	439	51.3
Makaha CDP, Honolulu County	5 319	2 656	61.3	50.3	3 099	7.0	2 882	85.6	29.5	10.7	3 335	2 315	1 574	589	39.0
Makaha Valley CDP, Honolulu County	818	395	83.3	65.3	559	6.6	635	79.8	34.8	11.7	706	573	351	127	50.4
Makakilo City CDP, Honolulu County	7 286	3 432	78.9	69.6	4 768	4.8	5 402	93.2	18.8	4.0	6 006	5 024	4 027	796	70.6
Makawao CDP, Maui County	3 793	1 839	78.8	68.7	2 989	3.0	2 862	93.5	23.5	—	3 132	2 042	1 873	390	62.1
Maunaloa CDP, Maui County	259	132	72.2	77.3	187	7.0	154	92.2	17.5	7.8	186	127	85	31	64.5
Maunawili CDP, Honolulu County	3 849	1 941	70.9	63.4	2 699	3.6	2 547	88.8	23.8	7.4	2 991	2 415	1 870	271	66.8
Milliani Town CDP, Honolulu County	20 829	10 383	80.1	72.9	15 139	2.1	16 003	91.8	22.3	4.3	17 614	14 632	11 795	2 392	72.6
Mokuleia CDP, Honolulu County	1 343	604	83.5	76.3	829	3.4	1 070	87.8	26.1	3.2	1 213	989	747	151	58.9
Mountain View CDP, Hawaii County	2 164	1 032	55.7	52.2	1 205	7.0	1 101	82.2	19.1	1.8	1 365	1 012	731	196	39.8
Naalehu CDP, Hawaii County	765	398	56.7	46.2	434	12.4	380	85.8	33.9	—	460	355	280	76	44.7
Nanakuli CDP, Honolulu County	6 207	3 151	60.8	50.2	3 657	7.1	3 358	88.5	34.7	7.3	4 022	2 893	2 084	699	34.5
Napili-Honokowai CDP, Maui County	3 553	1 685	79.3	72.2	2 816	1.1	2 738	82.0	18.1	1.2	3 002	2 371	1 715	335	43.9
Omao CDP, Kauai County	801	388	70.3	57.5	563	—	547	96.7	23.6	—	598	504	333	75	69.3
Paaui CDP, Hawaii County	466	208	58.4	53.4	272	4.8	259	86.5	13.9	3.1	314	248	128	22	36.4
Pahala CDP, Hawaii County	991	470	54.2	49.8	537	4.7	503	85.9	1.2	10.1	607	452	273	90	32.2
Pahoa CDP, Hawaii County	845	405	63.9	63.7	540	3.7	520	77.1	18.7	—	556	415	247	52	78.8
Paia CDP, Maui County	1 569	800	71.9	66.0	1 122	3.6	1 056	86.6	26.7	.9	1 209	952	619	105	77.1
Pakala Village CDP, Kauai County	483	209	47.6	40.2	230	—	230	78.7	19.1	—	294	229	173	21	38.1
Papaikou CDP, Hawaii County	1 265	657	59.0	59.4	746	6.0	659	94.1	12.4	1.2	819	653	516	81	55.6
Paukaa CDP, Hawaii County	416	202	52.9	54.5	220	—	220	94.1	11.8	2.7	225	193	149	14	50.0
Pearl City CDP, Honolulu County	24 389	12 193	72.5	67.1	15 997	2.5	16 901	89.3	22.1	6.3	18 826	15 457	11 951	1 667	65.4
Pepeekeo CDP, Hawaii County	1 244	601	46.0	42.4	572	10.3	474	91.4	16.9	3.0	690	451	328	109	34.9
Poipu CDP, Kauai County	875	478	71.3	56.1	614	1.8	604	86.4	12.4	—	659	548	324	56	83.9
Princeville CDP, Kauai County	979	514	71.1	62.5	696	1.1	688	86.6	20.5	1.2	750	568	392	132	50.8
Puako CDP, Hawaii County	321	121	67.6	64.5	217	—	199	74.4	18.6	—	260	221	104	19	—
Puhi CDP, Kauai County	988	468	79.8	69.2	788	2.4	744	94.1	18.1	—	819	669	503	120	95.0
Pukalani CDP, Maui County	4 247	2 083	73.1	66.7	3 103	3.0	2 922	95.9	17.2	.4	3 394	2 682	2 060	433	70.2
Punaluu CDP, Honolulu County	512	230	70.1	72.2	359	3.9	330	81.5	24.2	5.5	410	331	270	51	52.9
Pupukea CDP, Honolulu County	3 085	1 428	73.6	62.5	2 214	4.5	2 085	76.1	19.5	9.3	2 441	1 895	1 232	368	48.1
Schofield Barracks CDP, Honolulu County	13 526	4 029	87.0	61.1	2 519	7.3	11 290	52.5	13.3	2.1	11 757	9 488	7 637	2 071	47.0
Village Park CDP, Honolulu County	5 139	2 503	84.7	81.0	3 988	2.0	4 133	94.0	28.8	4.5	4 553	3 886	3 200	655	78.5
Volcano CDP, Hawaii County	1 075	499	62.6	51.5	673	4.2	636	77.5	14.5	—	748	549	365	138	46.4
Wahiawa CDP, Honolulu County	13 164	6 665	68.2	61.1	8 267	6.2	8 212	81.3	23.1	9.5	9 400	7 305	5 554	1 172	54.9
Waialua CDP, Honolulu County	3 080	1 524	64.5	59.4	1 891	3.7	1 906	88.5	14.2	7.0	2 103	1 668	1 200	183	68.9
Waianae CDP, Honolulu County	5 927	3 040	64.2	58.1	3 752	8.2	3 413	80.5	29.4	9.3	4 026	2 835	1 957	506	40.3
Waihee-Waihue CDP, Maui County	2 756	1 412	78.4	74.9	2 162	2.8	2 037	93.9	19.0	.8	2 217	1 807	1 349	315	74.3
Waikane CDP, Honolulu County	494	266	67.6	62.4	334	5.7	304	80.3	21.4	6.9	367	280	194	19	31.6
Waikapu CDP, Maui County	529	268	73.9	66.4	391	—	373	95.2	17.2	—	393	256	209	52	84.6
Waikoloa Village CDP, Hawaii County	1 812	841	77.4	61.6	1 402	1.4	1 330	88.6	24.8	1.3	1 525	1 296	960	204	34.3

Own children under 6 years in families and subfamilies, all parents in household in labor force

SUMMARY SOCIAL, ECONOMIC, AND HOUSING CHARACTERISTICS

Table 6. Employment Status and Journey to Work Characteristics: 1990—Con.

[Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text]

State County Place and [In Selected States] County Subdivision	Persons 16 years and over														Own children under 6 years in families and subfamilies, all parents in household in labor force		
	Labor force								Worked in 1989			Females with own children under 6 years					
	Percent in labor force		Civilian labor force		Workers			Total	Worked 40 or more weeks in 1989		Total	Percent in labor force					
	Total	Female	Total	Female	Total	Percent un- employed	Total		Means of transportation to work				Total	Usually worked 35 or more hours per week, 50 to 52 weeks			
								Percent using car, truck, or van	Percent in carpools	Percent using public trans- portation							
PLACE AND COUNTY SUBDIVISION — Con.																	
Wailea-Makena CDP, Maui County -----	3 074	1 465	67.1	58.0	2 063	1.4	1 955	85.2	14.6	.4	2 258	1 758	1 298	245	47.8	135	
Wailua CDP, Kauai County -----	1 470	792	71.7	64.9	1 054	3.9	1 013	92.0	14.1	—	1 110	923	692	158	68.4	126	
Wailua Homesteads CDP, Kauai County ----	2 831	1 440	77.9	75.4	2 204	4.8	2 044	93.0	19.0	.4	2 298	1 826	1 290	243	68.7	241	
Wailuku CDP, Maui County -----	8 426	4 193	69.3	64.5	5 842	3.1	5 484	91.2	23.7	—	6 199	5 014	3 712	497	70.4	462	
Waimalu CDP, Honolulu County -----	23 527	11 645	80.5	74.0	17 075	2.4	18 161	89.2	23.1	6.2	19 701	17 049	13 233	1 879	72.3	1 708	
Waimanalo CDP, Honolulu County -----	2 525	1 356	73.9	69.1	1 843	6.3	1 662	83.8	25.5	11.2	1 925	1 531	1 101	242	60.3	180	
Waimanalo Beach CDP, Honolulu County ----	3 117	1 544	66.9	60.7	2 075	3.4	1 869	85.6	25.7	8.2	2 160	1 710	1 257	229	67.7	205	
Waimea CDP, Hawaii County -----	4 140	2 049	72.7	67.3	3 006	3.5	2 870	88.5	17.8	1.6	3 313	2 687	2 201	442	67.0	379	
Waimea CDP, Kauai County -----	1 392	711	69.7	66.1	951	4.8	915	89.4	13.4	—	995	788	600	106	75.5	121	
Wainaku CDP, Hawaii County -----	1 004	531	49.9	46.0	501	5.4	461	92.8	30.4	—	584	453	321	127	60.6	45	
Waipahu CDP, Honolulu County -----	23 207	11 805	67.7	62.9	15 082	5.6	14 400	83.9	25.3	10.6	16 009	12 644	9 158	2 001	60.6	1 715	
Waipio CDP, Honolulu County -----	8 738	4 293	85.0	80.3	6 601	3.0	7 079	93.7	25.8	3.1	7 651	6 762	5 531	1 080	90.7	1 289	
Waipio Acres CDP, Honolulu County -----	4 037	1 880	76.8	66.0	2 451	6.6	2 858	89.8	18.2	6.0	3 225	2 658	2 112	533	63.0	403	
Wheeler AFB CDP, Honolulu County -----	1 707	774	84.5	69.5	515	10.7	1 325	82.2	20.6	3.5	1 480	1 163	978	289	56.1	223	
Whitmore Village CDP, Honolulu County ----	2 438	1 207	68.5	64.5	1 621	4.8	1 542	78.7	26.7	13.4	1 780	1 347	965	255	67.8	239	

Table 7. Disability Status: 1990

[Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text]

State County County Subdivision Place	Civilian noninstitutionalized persons 16 to 64 years						Civilian noninstitutionalized persons 65 years and over				Percent in labor force of civilian noninstitutionalized persons 16 to 64 years with—			
	Total	Percent with a work disability		Percent with a mobility or self-care limitation			Total	Percent with a mobility or self-care limitation			A work disability	No work disability	A mobility limitation	No mobility limitation
		Total	Prevented from working	Total	Mobility limitation	Self-care limitation		Total	Mobility limitation	Self-care limitation				
The State	672 828	6.6	3.0	4.0	1.6	3.2	120 972	17.6	12.6	11.1	44.5	81.0	25.5	79.5
Hawaii County	73 508	9.6	5.1	3.3	1.9	2.3	14 774	14.7	12.1	7.8	40.0	78.1	19.4	75.4
Hilo division	23 864	9.4	5.5	4.5	2.1	3.3	5 520	16.8	11.6	10.9	36.2	78.1	19.5	75.3
Hilo CDP	22 810	9.3	5.5	4.6	2.1	3.3	5 268	17.1	11.7	11.0	36.0	78.6	18.5	75.8
Mountain View CDP (pt.)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Wainaku CDP	781	10.5	6.8	4.0	1.2	4.0	223	9.0	6.7	5.4	26.8	64.7	—	61.4
Honokaa-Kukuihaele division	2 240	10.8	4.6	3.8	1.7	2.8	514	16.9	15.6	8.4	46.3	76.8	15.4	74.5
Honokaa CDP (pt.)	1 346	10.8	3.6	2.7	2.1	1.0	363	12.7	12.7	6.3	54.1	73.7	21.4	72.6
Kukuihaele CDP	125	8.8	8.8	8.8	8.8	8.8	67	19.4	19.4	—	—	93.0	—	93.0
Kau division	2 560	11.3	2.9	.5	.5	.2	645	11.3	10.5	5.1	63.0	75.8	—	74.7
Hawaiian Ocean View CDP	642	15.3	3.7	—	—	—	132	25.8	25.8	11.4	65.3	79.4	—	77.3
Naalehu CDP	595	1.5	1.5	.8	.8	.8	170	7.6	4.7	2.9	—	74.1	—	73.6
Pahala CDP	745	11.9	3.0	1.1	1.1	—	234	7.7	7.7	5.6	48.3	72.4	—	70.3
Volcano CDP (pt.)	36	11.1	—	—	—	—	10	—	—	—	100.0	100.0	—	100.0
Keau-Mountain View division	8 274	12.9	7.5	3.4	2.6	1.6	1 546	13.0	12.3	5.9	35.7	71.8	12.4	68.6
Hawaiian Paradise Park CDP	2 051	11.2	4.4	2.9	1.9	1.6	287	11.1	7.3	11.1	45.2	72.0	—	70.3
Keau CDP	913	9.5	6.0	1.1	1.1	—	293	11.6	11.6	3.1	36.8	75.2	—	72.3
Kurtistown CDP	475	6.7	6.7	2.7	2.7	1.9	143	28.0	28.0	—	—	85.8	—	82.3
Mountain View CDP (pt.)	1 860	16.6	10.4	6.5	4.9	3.4	304	9.9	9.9	7.6	37.2	68.6	16.5	65.8
Volcano CDP (pt.)	851	12.5	9.0	3.3	3.3	—	178	6.2	6.2	—	22.6	73.0	14.3	68.5
North Hilo division	921	13.8	5.0	6.1	3.7	2.4	279	9.0	3.9	5.0	36.2	68.1	—	66.2
Laupahoehoe CDP	309	5.5	5.5	5.2	2.6	2.6	82	17.1	—	17.1	—	62.3	—	60.5
North Kohala division	2 508	10.6	6.3	1.8	1.6	.5	583	12.2	12.2	.9	31.6	81.8	12.2	77.5
Halaula CDP	284	6.0	1.8	—	—	—	58	—	—	—	70.6	83.9	—	83.1
Hawi CDP	527	14.4	7.4	2.5	1.7	.8	103	15.5	15.5	—	36.8	78.9	—	74.1
Kapaau CDP	619	9.9	9.0	1.1	1.1	—	204	5.9	5.9	2.5	8.2	83.9	—	77.3
North Kona division	14 532	7.0	2.5	2.5	.9	2.3	2 205	13.7	12.1	6.6	54.7	80.8	37.9	79.4
Holualoa CDP	2 508	5.8	2.0	4.3	1.4	4.0	514	14.8	14.8	3.5	55.2	84.7	77.8	83.1
Honalo CDP	1 291	7.4	3.6	3.0	—	3.0	221	21.3	10.4	13.1	36.5	79.2	—	76.1
Kahaluu-Keauhou CDP	1 122	4.3	.7	3.9	.6	3.9	369	3.8	3.8	3.8	64.6	74.1	—	74.2
Kailua CDP	6 073	7.4	2.3	2.5	1.0	2.2	680	16.5	14.9	10.9	59.4	79.0	30.6	78.0
Kalaoca CDP	3 016	8.0	3.5	.6	.6	.6	347	11.5	11.5	3.2	50.0	85.1	—	82.8
Kealakekua CDP (pt.)	68	14.7	—	—	—	—	11	—	—	—	100.0	62.1	—	67.6
Paaahu-Paauilo division	1 113	9.4	3.7	1.7	1.2	.5	280	13.9	11.8	13.9	61.0	74.6	53.8	73.5
Honokaa CDP (pt.)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Paauilo CDP	353	20.4	5.4	3.7	2.0	1.7	113	7.1	7.1	7.1	73.6	71.9	100.0	71.7
Paho-Kalapana division	3 921	16.1	10.9	5.7	4.8	1.9	712	14.2	14.2	7.2	28.9	72.3	22.9	67.4
Hawaiian Beaches CDP	1 590	19.1	13.8	7.5	5.3	3.1	236	15.7	15.7	7.6	25.7	65.2	16.7	60.0
Paho CDP	619	11.1	7.3	2.7	2.7	1.5	226	18.6	18.6	10.6	34.8	91.5	29.4	86.7
Papaikou-Wailea division	2 852	12.0	8.6	3.7	2.7	3.2	971	14.9	14.9	4.5	24.6	73.5	13.2	69.1
Honomu CDP	316	9.8	8.5	4.7	2.5	2.2	140	13.6	13.6	10.0	12.9	79.6	50.0	73.7
Papaikou CDP	1 007	8.5	5.8	3.4	2.0	2.8	258	22.9	22.9	3.1	32.6	74.6	—	72.4
Paukaa CDP	289	9.0	2.4	—	—	—	127	14.2	14.2	3.9	26.9	73.0	—	68.9
Pepeekeo CDP	896	16.0	10.9	4.7	4.7	4.7	348	10.1	10.1	4.9	31.5	68.3	14.3	64.8
South Kohala division	5 957	6.8	3.0	1.5	.9	1.3	651	11.5	11.5	4.8	41.6	83.5	26.9	81.2
Puako CDP	263	4.9	—	2.3	2.3	2.3	58	25.9	25.9	—	53.8	78.0	—	78.6
Waikoloa Village CDP	1 699	5.8	2.1	2.4	.6	1.8	113	—	—	—	53.5	83.3	—	82.0
Waimea CDP	3 663	6.1	2.3	1.2	1.0	1.2	472	12.7	12.7	6.6	44.4	83.2	38.9	81.3
South Kona division	4 766	7.6	3.3	2.0	1.5	1.3	868	13.6	13.0	5.2	45.2	82.6	12.7	80.8
Captain Cook CDP	1 745	6.0	3.7	3.1	2.8	1.8	276	10.9	10.9	4.0	14.3	85.1	18.8	82.6
Honaunau-Napoopoo CDP	1 493	11.5	4.6	2.3	1.5	1.7	238	16.8	16.8	6.7	54.1	83.3	—	81.2
Kealakekua CDP (pt.)	703	3.4	—	—	—	—	256	10.5	8.6	3.5	100.0	83.5	—	84.1
Honolulu County	503 514	6.2	2.8	4.1	1.6	3.3	88 604	18.0	12.6	11.7	44.8	80.8	26.6	79.4
Ewa division	134 208	5.8	2.5	3.9	1.6	3.1	14 797	19.2	13.7	13.2	45.9	81.5	24.8	80.3
Aiea CDP	5 497	6.6	3.7	4.2	2.3	2.5	1 506	13.9	10.9	8.9	38.1	80.8	35.9	79.0
Barbers Point Housing CDP	802	2.1	.6	2.2	.7	1.5	—	—	—	—	70.6	73.5	100.0	73.2
Ewa Beach CDP	9 252	8.8	5.1	5.8	3.0	4.2	969	18.3	11.7	11.5	32.9	79.4	16.5	77.1
Ewa Gentry CDP	1 413	2.3	1.6	2.6	1.1	2.1	30	—	—	—	—	90.4	—	89.3
Ewa Villages CDP	2 262	6.2	1.4	4.2	2.4	3.6	569	22.3	12.5	13.2	78.0	81.6	40.7	82.3
Halawa CDP	8 386	6.1	2.2	3.1	1.1	2.7	1 395	17.8	12.1	13.3	53.0	80.1	6.6	79.2
Hickam Housing CDP	2 173	4.8	1.7	1.7	1.7	.4	25	24.0	24.0	—	36.5	64.1	43.2	63.2
Iroquois Point CDP	1 285	2.4	1.9	3.6	1.0	2.6	11	54.5	—	54.5	19.4	51.6	—	51.3
Makakilo City CDP	5 979	7.6	2.6	4.6	1.3	3.9	327	15.0	8.9	11.3	53.6	81.0	45.3	79.4
Mililani Town CDP	18 206	4.2	1.4	2.8	1.1	2.2	1 081	15.6	14.3	11.0	57.2	83.8	36.9	83.2
Pearl City CDP	20 016	5.9	2.6	4.8	1.9	3.7	2 688	21.9	14.1	15.3	43.8	80.4	30.1	79.2
Village Park CDP	4 541	3.5	1.0	3.4	.9	2.9	234	17.5	14.1	6.8	71.3	87.5	23.3	87.6
Waimalu CDP	19 694	4.3	1.3	2.4	.8	2.1	1 814	15.2	11.4	13.2	59.4	86.1	18.1	85.5
Waipahu CDP	19 234	8.5	4.8	6.9	2.7	5.7	3 301	23.3	17.8	15.5	33.8	79.5	17.6	77.3
Waipio CDP	7 569	3.6	1.3	1.9	.5	1.4	343	16.3	16.3	8.7	59.2	87.6	—	87.0
Waipio Acres CDP	3 125	6.7	3.4	2.9	1.6	2.0	262	17.9	10.7	9.2	34.9	81.1	37.3	78.7
Honolulu division	240 914	5.8	2.6	4.3	1.6	3.5	55 862	17.4	11.6	11.4	45.8	81.4	30.8	80.1
Aliamanu CDP	2 890	4.6	3.3	3.8	2.8	2.2	86	—	—	—	24.2	72.1	7.5	71.7
Fort Shafter CDP	1 174	.4	—	.4	—	.4	10	60.0	60.0	60.0	100.0	70.4	—	70.5
Honolulu CDP	236 850	5.9	2.6	4.4	1.6	3.6	55 766	17.4	11.6	11.4	46.0	81.6	31.3	80.3
Koolauloa division	11 711	6.9	3.0	3.0	1.5	2.3	1 337	17.9	15.0	9.1	48.8	77.1	22.6	75.9
Hauula CDP	2 013	11.2	3.8	5.7	2.7	4.5	224	14.3	14.3	7.1	48.9	71.9	30.9	70.4
Kaaawa CDP	753	8.8	5.7	6.1	.8	6.1	152	23.0	18.4	8.6	34.8	80.5	—	77.1
Kahuku CDP	1 030	5.3	4.8	5.0	3.9	3.6	248	18.1	16.1	4.4	10.9	78.7	10.0	77.7
Kawela Bay CDP	292	—	—	—	—	—	58	—	—	—	—	80.1	—	80.1
Laie CDP	3 771	4.8	2.5	2.2	1.0	1.7	226	24.8	17.3	19.5	44.2	76.1	—	75.3
Punaluu CDP	441	18.4	12.9	5.7	2.9	5.7	71</							

Table 7. Disability Status: 1990—Con.

[Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text]

State County County Subdivision Place	Civilian noninstitutionalized persons 16 to 64 years						Civilian noninstitutionalized persons 65 years and over				Percent in labor force of civilian noninstitutionalized persons 16 to 64 years with—			
	Total	Percent with a work disability		Percent with a mobility or self-care limitation			Total	Percent with a mobility or self-care limitation			A work disability	No work disability	A mobility limitation	No mobility limitation
		Total	Prevented from working	Total	Mobility limitation	Self-care limitation		Total	Mobility limitation	Self-care limitation				
Honolulu County—Con.														
Waiialua division	6 713	8.8	4.8	9.3	2.9	7.7	1 359	24.1	17.3	13.8	38.3	79.9	10.3	78.2
Haleiwa CDP	1 220	11.1	6.8	15.6	3.2	13.0	302	32.8	15.2	29.8	32.4	74.4	17.9	71.4
Mokuleia CDP	933	5.1	5.1	7.5	3.4	4.1	117	39.3	39.3	18.8	—	88.6	21.9	86.2
Waiialua CDP	2 363	7.8	2.8	2.0	2.0	.4	622	17.5	15.9	2.6	57.1	78.4	—	78.3
Waianae division	21 796	12.6	6.6	6.4	2.8	4.7	2 523	25.8	21.4	14.5	36.1	71.9	19.6	68.7
Mali CDP	3 620	11.8	6.8	9.3	4.0	6.9	384	30.5	29.2	16.1	31.3	75.5	16.6	72.5
Makaha CDP	4 513	13.1	6.3	4.3	2.2	2.5	588	25.7	20.4	19.2	35.4	71.8	26.3	68.0
Makaha Valley CDP	660	7.3	2.4	3.8	—	3.8	36	—	—	—	66.7	83.2	—	82.0
Nanakuli CDP	5 512	11.2	5.7	6.0	2.4	5.1	581	24.1	15.1	12.0	35.3	68.9	26.9	66.1
Waianae CDP	5 321	13.3	6.0	6.6	2.2	5.0	553	22.6	20.3	6.0	43.8	71.5	21.8	68.9
Kalawao County	75	26.7	26.7	8.0	8.0	—	35	20.0	20.0	20.0	—	61.8	—	49.3
Kalawao division	75	26.7	26.7	8.0	8.0	—	35	20.0	20.0	20.0	—	61.8	—	49.3
Kauai County	31 174	6.7	2.9	4.5	1.7	3.7	6 496	17.7	12.5	10.9	46.6	83.6	21.3	82.1
Eleele-Kalaheo division	3 895	5.0	2.1	6.2	1.6	4.7	949	15.3	10.6	6.7	39.2	84.1	27.4	82.8
Eleele CDP (pt.)	749	6.3	2.1	11.3	2.5	8.8	313	12.8	12.8	4.8	40.4	83.2	—	82.6
Hanapepe CDP (pt.)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Kalaheo CDP	2 256	5.0	2.4	6.0	1.4	4.6	431	16.9	10.0	8.1	36.3	82.3	54.8	80.4
Lawai CDP (pt.)	589	4.8	.7	3.4	2.0	2.0	105	23.8	17.1	6.7	57.1	89.8	—	90.1
Omao CDP (pt.)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hanalei division	2 859	6.4	2.6	1.5	1.5	.5	491	14.5	11.8	12.0	47.5	85.8	14.3	84.4
Hanalei CDP	240	6.3	6.3	6.3	6.3	—	73	17.8	17.8	9.6	—	81.8	—	81.8
Kalihiwai CDP	345	6.1	2.3	—	—	—	33	—	—	—	61.9	92.9	—	91.0
Kilauea CDP	950	7.6	2.9	2.8	2.8	1.5	210	24.8	18.6	24.8	37.5	87.2	22.2	85.3
Princeville CDP	874	5.6	2.5	—	—	—	105	5.7	5.7	—	42.9	79.8	—	77.7
Kapaa division	4 038	6.3	3.3	6.4	2.7	4.9	672	26.8	14.9	20.5	40.3	84.5	21.8	83.5
Kapaa CDP (pt.)	4 038	6.3	3.3	6.4	2.7	4.9	672	26.8	14.9	20.5	40.3	84.5	21.8	83.5
Kaumakani-Hanapepe division	1 642	9.2	5.8	5.9	4.4	4.9	553	26.2	18.6	15.9	32.5	79.5	13.7	78.0
Eleele CDP (pt.)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hanapepe CDP (pt.)	772	10.4	4.5	4.4	3.9	3.5	292	12.7	6.2	10.6	56.3	81.6	20.0	81.4
Kaumakani CDP	440	2.5	1.6	.9	.9	—	142	30.3	30.3	14.1	36.4	78.6	100.0	77.3
Pakala Village CDP	364	16.5	14.6	16.2	10.7	14.6	119	54.6	35.3	31.1	—	75.7	—	70.8
Kekaha-Waimea division	3 244	7.5	3.4	3.8	.9	3.3	793	16.8	11.5	10.6	42.6	82.1	—	79.8
Kekaha CDP	2 026	9.5	4.5	4.2	1.0	3.8	481	15.4	10.2	9.1	46.1	82.1	—	76.1
Waimea CDP	1 027	4.2	1.8	2.8	—	2.8	300	19.7	14.0	13.3	34.9	88.2	—	86.0
Koloa-Poipu division	3 056	4.8	2.1	3.0	1.2	2.3	633	13.4	7.7	9.3	35.8	84.1	19.4	82.5
Koloa CDP	994	11.0	5.5	6.0	3.0	3.7	320	16.6	5.3	13.4	30.3	87.9	23.3	83.4
Lawai CDP (pt.)	589	3.7	1.7	1.0	1.0	1.0	91	24.2	24.2	6.6	54.5	78.5	—	78.4
Omao CDP (pt.)	660	1.4	—	—	—	—	100	—	—	—	—	83.9	—	82.7
Poipu CDP	743	1.1	—	3.5	—	3.5	106	9.4	9.4	9.4	100.0	82.4	—	82.6
Lihue division	3 226	2.8	.9	2.4	.6	2.1	980	17.4	13.3	9.8	58.4	86.0	100.0	85.1
Lihue CDP (pt.)	3 226	2.8	.9	2.4	.6	2.1	980	17.4	13.3	9.8	58.4	86.0	100.0	85.1
Niihau division	141	—	—	7.1	—	7.1	—	—	—	—	—	9.9	—	9.9
Puhi-Hanamaulu division	3 300	10.2	4.6	7.3	2.0	7.1	622	17.5	13.8	10.6	50.7	85.2	7.6	83.2
Hanamaulu CDP	2 058	9.1	5.0	9.6	2.4	9.6	485	16.3	12.8	8.7	42.8	83.4	—	81.7
Lihue CDP (pt.)	190	3.2	—	—	—	—	—	—	—	—	100.0	86.4	—	86.8
Puhi CDP	864	10.3	4.3	5.0	1.9	4.3	124	24.2	19.4	19.4	58.4	90.2	31.3	88.0
Wailua-Anahola division	5 773	8.7	3.1	3.9	1.9	3.3	803	13.4	11.8	6.8	56.6	82.6	26.2	81.4
Anahola CDP	822	15.8	8.2	5.8	4.1	5.0	76	5.3	5.3	—	42.3	72.8	—	70.1
Kapaa CDP (pt.)	902	9.9	1.6	2.4	1.4	2.4	129	4.7	4.7	4.7	84.3	77.6	53.8	78.6
Wailua CDP	1 236	7.0	2.9	2.5	1.6	2.5	234	12.8	9.8	5.6	58.1	84.8	—	84.3
Wailua Homesteads CDP	2 540	7.2	2.2	4.6	1.3	3.9	273	24.9	22.7	13.2	53.8	87.5	21.2	85.9
Maui County	64 557	6.3	2.6	3.6	1.4	2.8	11 063	17.7	13.2	11.6	49.4	84.6	27.7	83.2
East Molokai division	2 418	8.2	5.3	6.9	4.4	5.0	492	15.2	12.0	10.8	25.6	76.5	11.3	75.1
Kaunakakai CDP	1 369	8.9	6.7	5.7	5.7	3.2	333	15.0	12.0	9.9	14.8	83.1	—	81.6
Haiku-Pauwela division	3 809	8.7	3.9	2.4	1.1	1.9	328	11.3	8.2	7.0	50.5	81.3	—	79.5
Haiku-Pauwela CDP	2 998	9.9	4.3	2.5	1.1	1.9	297	12.5	9.1	7.7	51.0	81.9	—	79.8
Hana division	1 115	9.1	5.1	2.3	1.1	2.3	222	7.2	7.2	2.3	37.6	76.1	—	73.4
Hana CDP	367	12.3	12.3	5.7	1.9	5.7	75	5.3	5.3	—	—	82.0	—	73.3
Kahului division	10 102	7.2	2.9	5.0	1.9	4.0	2 525	24.6	17.7	15.9	50.0	84.2	32.3	82.7
Kahului CDP (pt.)	10 102	7.2	2.9	5.0	1.9	4.0	2 525	24.6	17.7	15.9	50.0	84.2	32.3	82.7
Kihei division	9 114	6.7	1.9	1.9	1.2	1.1	1 074	10.1	7.8	8.4	56.0	87.0	56.0	85.3
Kihei CDP	7 773	6.9	1.9	2.3	1.4	1.3	769	10.7	8.6	8.3	57.6	88.8	56.0	87.1
Maalaea CDP	490	8.4	—	—	—	—	121	—	—	—	58.5	85.3	—	83.1
Wailea-Makena CDP (pt.)	851	4.2	3.1	—	—	—	167	15.6	10.8	15.6	27.8	71.8	—	69.9
Kula division	5 190	6.7	1.7	2.3	1.0	1.7	936	11.3	8.7	8.2	67.1	82.5	56.6	81.7
Wailea-Makena CDP (pt.)	1 772	4.2	.7	3.3	.3	3.3	284	18.3	11.3	13.4	75.7	77.9	—	78.1
Lahaina division	10 291	4.4	1.5	3.4	.7	3.1	1 413	11.9	6.0	8.4	58.7	86.8	8.8	86.1
Kaanapali CDP	418	4.5	—	—	—	—	99	—	—	—	100.0	77.4	—	78.5
Kapalua CDP	322	—	—	—	—	—	24	—	—	—	—	77.3	—	77.3
Lahaina CDP	6 224	4.8	1.5	4.9	.9	4.5	970	14.9	7.1	10.5	57.7	88.6	11.3	87.8
Napili-Honokowai CDP	3 233	3.7	1.6	1.5	.5	1.3	320	7.2	5.0	5.3	56.3	86.0	—	85.3
Lanai division	1 327	3.5	1.7	4.4	1.4	3.3	488	17.6	16.4	11.1	53.2	85.5	44.4	84.9
Lanai City CDP	1 313	3.6	1.7	4.4	1.4	3.4	488	17.6	16.4	11.1	53.2	85.3	44.4	84.7
Makawao-Paia division	9 969	6.1	3.1	3.6	1.1	2.9	1 268	22.7	19.7	12.8	38.3	85.2	10.6	83.1
Haliimaile CDP	510	8.8	6.3	4.5	2.9	3.1	166	19.3	19.3	4.2	28.9	82.6	—	80.2
Makawao CDP	3 491	5.4	2.7	3.6	1.1	3.2	302	35.4	35.4	20.9	42.1	86.9	17.9	85.2
Paia CDP	1 338	8.7	6.3	5.8	2.7	3.7	225	29.3	25.3	17.8	28.2	85.5	—	82.7
Pukalani CDP	3 778	4.9	2.2	3.3	.6	2.8	469	17.7	11.5	11.1	33.7	83.8	21.7	81.7
Punene division	145	32.4	12.4	17.2	12.4	4.8	37	5.4	—	5.4	61.7	68.4	—	75.6
Kahului CDP (pt.)	145	32.4	12.4	17.2	12.4	4.8	37	5.4	—	5.4	61.7	68.4	—	75.6
Spreckelsville division	147	5.4	2.7	—	—	—	5	—	—	—	50.0	68.3	—	67.3

Table 8. Disability Status: 1990

[Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text]

State County Place and [In Selected States] County Subdivision	Civilian noninstitutionalized persons 16 to 64 years						Civilian noninstitutionalized persons 65 years and over				Percent in labor force of civilian noninstitutionalized persons 16 to 64 years with—			
	Total	Percent with a work disability		Percent with a mobility or self-care limitation			Total	Percent with a mobility or self-care limitation			A work disability	No work disability	A mobility limitation	No mobility limitation
		Total	Prevented from working	Total	Mobility limitation	Self-care limitation		Total	Mobility limitation	Self-care limitation				
The State -----	672 828	6.6	3.0	4.0	1.6	3.2	120 972	17.6	12.6	11.1	44.5	81.0	25.5	79.5
COUNTY														
Hawaii County -----	73 508	9.6	5.1	3.3	1.9	2.3	14 774	14.7	12.1	7.8	40.0	78.1	19.4	75.4
Honolulu County -----	503 514	6.2	2.8	4.1	1.6	3.3	88 604	18.0	12.6	11.7	44.8	80.8	26.6	79.4
Kalawao County -----	75	26.7	26.7	8.0	8.0	—	35	20.0	20.0	20.0	—	61.8	—	49.3
Kauai County -----	31 174	6.7	2.9	4.5	1.7	3.7	6 496	17.7	12.5	10.9	46.6	83.6	21.3	82.1
Maui County -----	64 557	6.3	2.6	3.6	1.4	2.8	11 063	17.7	13.2	11.6	49.4	84.6	27.7	83.2
PLACE AND COUNTY SUBDIVISION														
Ahuimanu CDP, Honolulu County -----	5 316	4.1	1.7	2.4	.8	2.1	394	19.8	11.9	10.7	45.5	85.1	—	84.2
Aiea CDP, Honolulu County -----	5 497	6.6	3.7	4.2	2.3	2.5	1 506	13.9	10.9	8.9	38.1	80.8	35.9	79.0
Aliamanu CDP, Honolulu County -----	2 890	4.6	3.3	3.8	2.8	2.2	86	—	—	—	24.2	72.1	7.5	71.7
Anahola CDP, Kauai County -----	822	15.8	8.2	5.8	4.1	5.0	76	5.3	5.3	—	42.3	72.8	20.6	70.1
Barbers Point Housing CDP, Honolulu County -----	802	2.1	.6	2.2	.7	1.5	—	—	—	—	70.6	73.5	100.0	73.2
Captain Cook CDP, Hawaii County -----	1 745	6.0	3.7	3.1	2.8	1.8	276	10.9	10.9	4.0	14.3	85.1	18.8	82.6
Eleele CDP, Kauai County -----	749	6.3	2.1	11.3	2.5	8.8	313	12.8	12.8	4.8	40.4	83.2	—	82.6
Ewa Beach CDP, Honolulu County -----	9 252	8.8	5.1	5.8	3.0	4.2	969	18.3	11.7	11.5	32.9	79.4	16.5	77.1
Ewa Gentry CDP, Honolulu County -----	1 413	2.3	1.6	2.6	1.1	2.1	30	—	—	—	—	90.4	—	89.3
Ewa Villages CDP, Honolulu County -----	2 262	6.2	1.4	4.2	2.4	3.6	569	22.3	12.5	13.2	78.0	81.6	40.7	82.3
Fort Shafter CDP, Honolulu County -----	1 174	.4	—	.4	—	.4	10	60.0	60.0	60.0	100.0	70.4	—	70.5
Haiku-Pauwela CDP, Maui County -----	2 998	9.9	4.3	2.5	1.1	1.9	297	12.5	9.1	7.7	51.0	81.9	—	79.8
Halaula CDP, Hawaii County -----	284	6.0	1.8	—	—	—	58	—	—	—	70.6	83.9	—	83.1
Halaula CDP, Honolulu County -----	8 386	6.1	2.2	3.1	1.1	2.7	1 395	17.8	12.1	13.3	53.0	80.1	6.6	79.2
Haleiwa CDP, Honolulu County -----	1 220	11.1	6.8	15.6	3.2	13.0	302	32.8	15.2	29.8	32.4	74.4	17.9	71.4
Haliimaile CDP, Maui County -----	510	8.8	6.3	4.5	2.9	3.1	166	19.3	19.3	4.2	28.9	82.6	—	80.2
Hana CDP, Maui County -----	367	12.3	12.3	5.7	1.9	5.7	75	5.3	5.3	—	—	82.0	—	73.3
Hanalei CDP, Kauai County -----	240	6.3	6.3	6.3	6.3	—	73	17.8	17.8	9.6	—	81.8	—	81.8
Hanamaulu CDP, Kauai County -----	2 058	9.1	5.0	9.6	2.4	9.6	485	16.3	12.8	8.7	42.8	83.4	—	81.7
Hanapepe CDP, Kauai County -----	772	10.4	4.5	4.4	3.9	3.5	292	12.7	6.2	10.6	56.3	81.6	20.0	81.4
Haula CDP, Honolulu County -----	2 013	11.2	3.8	5.7	2.7	4.5	224	14.3	14.3	7.1	48.9	71.9	30.9	70.4
Hawaiian Beaches CDP, Hawaii County -----	1 590	19.1	13.8	7.5	5.3	3.1	236	15.7	15.7	7.6	25.7	65.2	16.7	60.0
Hawaiian Ocean View CDP, Hawaii County -----	642	15.3	3.7	—	—	—	132	25.8	25.8	11.4	65.3	79.4	—	77.3
Hawaiian Paradise Park CDP, Hawaii County -----	2 051	11.2	4.4	2.9	1.9	1.6	287	11.1	7.3	11.1	45.2	72.0	—	70.3
Hawi CDP, Hawaii County -----	527	14.4	7.4	2.5	1.7	1.8	103	15.5	15.5	—	36.8	78.9	—	74.1
Heeia CDP, Honolulu County -----	3 580	4.1	.7	1.6	.4	1.3	410	17.1	15.6	8.5	77.6	83.5	—	83.6
Hickam Housing CDP, Honolulu County -----	2 173	4.8	1.7	1.7	1.7	.4	25	24.0	24.0	—	36.5	64.1	43.2	63.2
Hilo CDP, Hawaii County -----	22 810	9.3	5.5	4.6	2.1	3.3	5 268	17.1	11.7	11.0	35.0	78.6	18.5	75.8
Holualoa CDP, Hawaii County -----	2 508	5.8	2.0	4.3	1.4	4.0	514	14.8	14.8	3.5	55.2	84.7	77.8	83.1
Honalo CDP, Hawaii County -----	1 291	7.4	3.6	3.0	—	3.0	221	21.3	10.4	13.1	36.5	79.2	—	76.1
Honaunau-Napoopoo CDP, Hawaii County -----	1 493	11.5	4.6	2.3	1.5	1.7	238	16.8	16.8	6.7	54.1	83.3	—	81.2
Honokaa CDP, Hawaii County -----	1 346	10.8	3.6	2.7	2.1	1.0	363	12.7	12.7	6.3	54.1	73.7	21.4	72.6
Honolulu CDP, Honolulu County -----	236 850	5.9	2.6	4.4	1.6	3.6	55 766	17.4	11.6	11.4	46.0	81.6	31.3	80.3
Honolulu CDP, Honolulu County -----	316	9.8	8.5	4.7	2.5	2.2	140	13.6	13.6	10.0	12.9	79.6	50.0	73.7
Iroquois Point CDP, Honolulu County -----	1 285	2.4	1.9	3.6	1.0	2.6	11	54.5	—	54.5	19.4	51.6	—	51.3
Kaaawa CDP, Honolulu County -----	753	8.8	5.7	6.1	.8	6.1	152	23.0	18.4	8.6	34.8	80.5	—	77.1
Kaanapali CDP, Maui County -----	418	4.5	—	—	—	—	99	—	—	—	100.0	77.4	—	78.5
Kahaluu CDP, Honolulu County -----	1 981	7.5	4.0	4.3	.8	4.0	307	12.7	5.2	9.1	42.3	82.1	—	79.7
Kahaluu-Keaouhou CDP, Hawaii County -----	1 122	4.3	.7	3.9	.6	3.9	369	3.8	3.8	3.8	64.6	74.1	—	74.2
Kahuku CDP, Honolulu County -----	1 303	5.3	4.8	5.0	3.9	3.6	248	18.1	16.1	4.4	10.9	78.7	10.0	77.7
Kahului CDP, Maui County -----	10 247	7.6	3.0	5.2	2.0	4.0	2 562	24.4	17.4	15.8	50.7	84.0	29.5	82.6
Kailua CDP, Hawaii County -----	6 073	7.4	2.3	2.5	1.0	2.2	680	16.5	14.9	10.9	59.4	79.0	30.6	78.0
Kailua CDP, Honolulu County -----	23 657	5.7	2.1	2.3	1.3	1.5	3 990	16.6	15.5	7.8	47.4	82.4	20.0	81.2
Kalaheo CDP, Kauai County -----	2 256	5.0	2.4	6.0	1.4	4.6	431	16.9	10.0	8.1	36.3	82.3	54.8	80.4
Kalaoa CDP, Hawaii County -----	3 016	8.0	3.5	.6	.6	.6	347	11.5	11.5	3.2	50.0	85.1	—	82.8
Kalihiwai CDP, Kauai County -----	345	6.1	2.3	—	—	—	33	—	—	—	61.9	92.9	—	91.0
Kaneohe CDP, Honolulu County -----	22 529	5.5	2.8	3.1	1.5	2.6	3 489	19.1	13.8	12.2	41.0	84.1	23.7	82.6
Kaneohe Station CDP, Honolulu County -----	2 387	2.0	.4	2.6	.8	1.8	22	36.4	—	36.4	61.7	56.3	100.0	56.1
Kapaa CDP, Kauai County -----	4 940	6.9	3.0	5.7	2.5	4.5	801	23.2	13.2	18.0	51.8	83.3	25.2	82.6
Kapaa CDP, Hawaii County -----	619	9.9	9.0	1.1	1.1	—	204	5.9	5.9	2.5	8.2	83.9	—	77.3
Kapalua CDP, Maui County -----	322	—	—	—	—	—	24	—	—	—	—	77.3	—	77.3
Kaumakani CDP, Kauai County -----	440	2.5	1.6	.9	.9	—	142	30.3	30.3	14.1	36.4	78.6	100.0	77.3
Kaunakakai CDP, Maui County -----	1 369	8.9	6.7	5.7	5.7	3.2	333	15.0	12.0	9.9	14.8	83.1	—	81.6
Kawela Bay CDP, Honolulu County -----	292	—	—	—	—	—	58	—	—	—	—	80.1	—	80.1
Keau CDP, Hawaii County -----	913	9.5	6.0	1.1	1.1	—	293	11.6	11.6	3.1	36.8	75.2	—	72.3
Kealahou CDP, Hawaii County -----	771	4.4	—	—	—	—	267	10.1	8.2	3.4	100.0	81.8	—	82.6
Kekaha CDP, Kauai County -----	2 026	9.5	4.5	4.2	1.0	3.8	481	15.4	10.2	9.1	46.1	78.3	—	76.1
Kihei CDP, Maui County -----	7 773	6.9	1.9	2.3	1.4	1.3	769	10.7	8.6	8.3	57.6	88.8	56.0	87.1
Kilauea CDP, Kauai County -----	950	7.6	2.9	2.8	2.8	1.5	210	24.8	18.6	24.8	37.5	87.2	22.2	85.3
Koloa CDP, Kauai County -----	944	11.0	5.5	6.0	3.0	3.7	320	16.6	5.3	13.4	30.3	87.9	23.3	83.4
Kualapu CDP, Maui County -----	976	3.6	3.6	.6	—	.6	163	11.0	11.0	8.0	—	76.4	—	73.7
Kukuihaele CDP, Hawaii County -----	125	8.8	8.8	8.8	8.8	8.8	67	19.4	19.4	—	—	93.0	—	93.0
Kurtistown CDP, Hawaii County -----	475	6.7	6.7	2.7	2.7	1.9	143	28.0	28.0	—	—	85.8	—	82.3
Lahaina CDP, Maui County -----	6 224	4.8	1.5	4.9	.9	4.5	970	14.9	7.1	10.5	57.7	88.6	11.3	87.8
Lai CDP, Honolulu County -----	3 771	4.8	2.5	2.2	1.0	1.7	226	24.8	17.3	19.5	44.2	76.1	—	75.3
Lanai City CDP, Maui County -----	1 313	3.6	1.7	4.4	1.4	3.4	488	17.6	16.4	11.1	53.2	85.3	44.4	84.7
Laupahoehoe CDP, Hawaii County -----	309	5.5	5.5	5.2	2.6	2.6	82	17.1	—	17.1	—	62.3	—	60.5
Lawai CDP, Kauai County -----	1 178	4.2	1.2	2.2	1.5	1.5	196	24.0	20.4	6.6	56.0	84.1	—	84.2
Lihue CDP, Kauai County -----	3 416	2.8	.9	2.3	.6	2.0	980	17.4	13.3	9.8	61.1	86.0	100.0	85.2
Maalea CDP, Maui County -----	490	8.4	—	—	—	—	121	—	—	—	58.5	85.3	—	83.1
Mali CDP, Honolulu County -----	3 620	11.8	6.8	9.3	4.0	6.9	384	30.5	29.2	16.1	31.3	75.5	16.6	72.5
Makaha CDP, Honolulu County -----	4 513	13.1	6.3	4.3	2.2	2								

Table 8. Disability Status: 1990—Con.

[Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text]

State County Place and [In Selected States] County Subdivision	Civilian noninstitutionalized persons 16 to 64 years						Civilian noninstitutionalized persons 65 years and over				Percent in labor force of civilian noninstitutionalized persons 16 to 64 years with—			
	Total	Percent with a work disability		Percent with a mobility or self-care limitation			Total	Percent with a mobility or self-care limitation			A work disability	No work disability	A mobility limitation	No mobility limitation
		Total	Prevented from working	Total	Mobility limitation	Self-care limitation		Total	Mobility limitation	Self-care limitation				
PLACE AND COUNTY SUBDIVISION— Con.														
Naalehu CDP, Hawaii County -----	595	1.5	1.5	.8	.8	.8	170	7.6	4.7	2.9	—	74.1	—	73.6
Nanakuli CDP, Honolulu County -----	5 512	11.2	5.7	6.0	2.4	5.1	581	24.1	15.1	12.0	35.3	68.9	26.9	66.1
Napili-Honokowai CDP, Maui County -----	3 233	3.7	1.6	1.5	.5	1.3	320	7.2	5.0	5.3	56.3	86.0	—	85.3
Omao CDP, Kauai County -----	660	1.4	—	—	—	—	100	—	—	—	—	83.9	—	82.7
Paauiilo CDP, Hawaii County -----	353	20.4	5.4	3.7	2.0	1.7	113	7.1	7.1	7.1	73.6	71.9	100.0	71.7
Pahala GDP, Hawaii County -----	745	11.9	3.0	1.1	1.1	—	234	7.7	7.7	5.6	48.3	72.4	—	70.3
Pahoia CDP, Hawaii County -----	619	11.1	7.3	2.7	2.7	1.5	226	18.6	18.6	10.6	34.8	91.5	29.4	86.7
Paia CDP, Maui County -----	1 338	8.7	6.3	5.8	2.7	3.7	225	29.3	25.3	17.8	28.2	85.5	—	82.7
Pakala Village CDP, Kauai County -----	364	16.5	14.6	16.2	10.7	14.6	119	54.6	35.3	31.1	—	75.7	—	70.8
Papaikou CDP, Hawaii County -----	1 007	8.5	5.8	3.4	2.0	2.8	258	22.9	22.9	3.1	32.6	74.6	—	72.4
Paukaa CDP, Hawaii County -----	289	9.0	2.4	—	—	—	127	14.2	14.2	3.9	26.9	73.0	—	68.9
Pearl City CDP, Honolulu County -----	20 016	5.9	2.6	4.8	1.9	3.7	2 688	21.9	14.1	15.3	43.8	80.4	30.1	79.2
Peepeekeo CDP, Hawaii County -----	896	16.0	10.9	4.7	4.7	4.7	348	10.1	10.1	4.9	31.5	68.3	14.3	64.8
Poipu CDP, Kauai County -----	743	1.1	—	3.5	—	3.5	106	9.4	9.4	9.4	100.0	82.4	—	82.6
Princeville CDP, Kauai County -----	874	5.6	2.5	—	—	—	105	5.7	5.7	—	42.9	79.8	—	77.7
Puako CDP, Hawaii County -----	263	4.9	—	2.3	2.3	2.3	58	25.9	25.9	—	53.8	78.0	—	78.6
Puhi CDP, Kauai County -----	864	10.3	4.3	5.0	1.9	4.3	124	24.2	19.4	19.4	58.4	90.2	31.3	88.0
Pukalani CDP, Maui County -----	3 778	4.9	2.2	3.3	.6	2.8	469	17.7	11.5	11.1	33.7	83.8	21.7	81.7
Punaluu CDP, Honolulu County -----	441	18.4	12.9	5.7	2.9	5.7	71	15.5	15.5	—	29.6	85.6	—	77.6
Pupukea CDP, Honolulu County -----	2 703	6.5	.7	.7	.7	.3	263	20.5	17.1	12.2	80.2	80.2	65.0	80.3
Schofield Barracks CDP, Honolulu County ---	4 261	3.6	1.5	2.2	.8	1.9	13	—	—	—	35.5	60.0	18.2	59.4
Village Park CDP, Honolulu County -----	4 541	3.5	1.0	3.4	.9	2.9	234	17.5	14.1	6.8	71.3	87.5	23.3	87.6
Volcano CDP, Hawaii County -----	887	12.4	8.7	3.2	3.2	—	188	5.9	5.9	—	25.5	74.1	14.3	69.8
Wahiawa CDP, Honolulu County -----	10 252	7.6	3.2	4.3	2.1	3.1	2 168	19.1	13.6	14.1	44.8	79.6	23.4	78.1
Waiailua CDP, Honolulu County -----	2 363	7.8	2.8	2.0	2.0	.4	622	17.5	15.9	2.6	57.1	78.4	—	78.3
Waianae CDP, Honolulu County -----	5 321	13.3	6.0	6.6	2.2	5.0	553	22.6	20.3	6.0	43.8	71.5	21.8	68.9
Waihee-Waihehue CDP, Maui County -----	2 476	5.5	2.5	6.8	3.5	4.8	280	10.4	5.0	5.4	49.6	88.4	48.3	87.7
Waikane CDP, Honolulu County -----	447	11.2	3.4	2.5	2.5	1.1	47	29.8	17.0	12.8	46.0	76.6	54.5	73.6
Waikapu CDP, Maui County -----	433	1.4	—	3.0	—	3.0	96	15.6	15.6	15.6	100.0	85.5	—	85.7
Waikoloa Village CDP, Hawaii County -----	1 699	5.8	2.1	2.4	.6	1.8	113	—	—	—	53.5	83.3	—	82.0
Wailea-Makena CDP, Maui County -----	2 623	4.2	1.4	2.2	.2	2.2	451	17.3	11.1	14.2	60.0	75.9	—	75.4
Wailua CDP, Kauai County -----	1 236	7.0	2.9	2.5	1.6	2.5	234	12.8	9.8	5.6	58.1	84.8	—	84.3
Wailua Homesteads CDP, Kauai County ----	2 540	7.2	2.2	4.6	1.3	3.9	273	24.9	22.7	13.2	53.8	87.5	21.2	85.9
Wailuku CDP, Maui County -----	6 592	5.4	2.4	3.6	1.5	3.0	1 678	22.7	16.5	14.6	44.1	86.5	20.2	85.2
Waimalu CDP, Honolulu County -----	19 694	4.3	1.3	2.4	.8	2.1	1 814	15.2	11.4	13.2	59.4	86.1	18.1	85.5
Waimanalo CDP, Honolulu County -----	2 292	10.2	4.7	6.3	2.6	6.0	209	18.2	11.5	15.3	47.6	83.4	33.3	81.0
Waimanalo Beach CDP, Honolulu County ----	2 692	8.9	5.2	4.8	3.7	2.7	415	11.3	9.6	5.8	30.1	79.0	—	77.5
Waimea CDP, Hawaii County -----	3 663	6.1	2.3	1.2	1.0	1.2	472	12.7	12.7	6.6	44.4	83.2	38.9	81.3
Waimea CDP, Kauai County -----	1 027	4.2	1.8	2.8	—	2.8	300	19.7	14.0	13.3	34.9	88.2	—	86.0
Wainaku CDP, Hawaii County -----	781	10.5	6.8	4.0	1.2	4.0	223	9.0	6.7	5.4	26.8	64.7	—	61.4
Waipahu CDP, Honolulu County -----	19 234	8.5	4.8	6.9	2.7	5.7	3 301	23.3	17.8	15.5	33.8	79.5	17.6	77.3
Waipio CDP, Honolulu County -----	7 569	3.6	1.3	1.9	.5	1.4	343	16.3	16.3	8.7	59.2	87.6	—	87.0
Waipio Acres CDP, Honolulu County -----	3 125	6.7	3.4	2.9	1.6	2.0	262	17.9	10.7	9.2	34.9	81.1	37.3	78.7
Wheeler AFB CDP, Honolulu County -----	773	1.6	.9	2.2	.9	1.3	7	—	—	—	41.7	66.1	—	66.3
Whitmore Village CDP, Honolulu County ----	2 005	7.0	3.5	8.6	4.5	5.2	375	13.1	9.1	8.3	42.9	81.9	45.6	80.8

Table 9. Income and Poverty Status in 1989: 1990

[Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text]

State County County Subdivision Place	Per capita income in 1989 (dollars)	Median income in 1989 (dollars)			Total	Persons for whom poverty status is determined								Families with income in 1989 below poverty level	
		Households	Families	Nonfamily households		Income in 1989 below poverty level								Number	Percent of all families
						All ages		Related children				Persons 65 years and over			
		Number	Percent	Number		Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number
The State	15 770	38 829	43 176	24 376	1 071 352	88 408	8.3	30 440	11.1	20 303	10.5	9 701	8.0	16 053	6.0
Hawaii County	13 169	29 712	33 186	17 375	118 344	16 776	14.2	6 673	19.8	4 622	18.8	1 383	9.4	3 351	10.9
Hilo division	13 260	29 967	35 506	15 453	38 782	5 561	14.3	2 171	20.5	1 474	18.6	594	10.8	1 141	11.1
Hilo CDP	13 373	30 014	35 570	15 700	37 061	5 383	14.5	2 098	20.7	1 424	18.7	574	10.9	1 104	11.3
Mountain View CDP (pt.)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Wainaku CDP	10 218	26 328	32 885	13 828	1 323	170	12.8	73	20.8	50	21.1	12	5.4	37	10.8
Honokaa-Kukuihaele division	11 586	31 431	33 205	14 500	3 747	349	9.3	182	16.6	135	16.9	32	6.2	57	5.8
Honokaa CDP (pt.)	10 796	29 864	33 548	11 316	2 296	259	11.3	140	21.4	100	19.7	32	8.8	39	6.3
Kukuihaele CDP	8 463	30 313	30 982	8 447	245	—	—	—	—	—	—	—	—	—	—
Kau division	10 271	22 229	26 064	12 297	4 467	580	13.0	211	15.6	151	14.4	61	9.5	119	10.5
Hawaiian Ocean View CDP	13 246	22 070	25 485	17 500	980	184	18.8	42	20.4	22	15.4	17	12.9	20	8.0
Naalehu CDP	8 308	21 563	23 929	10 313	1 086	144	13.3	68	19.2	58	21.2	6	3.5	39	13.0
Pahala CDP	8 788	20 915	24 342	10 125	1 410	136	9.6	61	13.1	41	10.9	20	8.5	30	8.7
Volcano CDP (pt.)	22 438	49 375	102 734	5 000—	4 803	4	4.8	—	—	—	—	—	—	—	—
Keau-Mountain View division	10 049	22 894	26 071	13 843	13 855	2 775	20.0	1 163	26.8	842	26.7	208	13.5	543	15.5
Hawaiian Paradise Park CDP	10 465	24 149	23 451	16 875	3 332	436	13.1	217	20.2	162	20.4	12	4.2	109	12.3
Keau CDP	9 920	23 839	33 092	6 031	1 568	259	16.5	104	26.1	69	24.6	35	11.9	35	9.4
Kurtistown CDP	11 433	30 521	34 727	15 326	819	83	10.1	31	14.5	21	14.3	19	13.3	14	5.8
Mountain View CDP (pt.)	9 528	21 352	25 578	10 217	3 183	726	22.8	275	25.7	186	23.4	56	18.4	127	16.3
Volcano CDP (pt.)	12 330	26 818	31 000	20 000	1 393	390	28.0	156	40.0	106	37.9	11	6.2	80	22.5
North Hilo division	9 540	27 118	28 860	17 143	1 620	116	7.2	28	5.7	18	4.7	15	5.4	27	6.2
Laupahoehoe CDP	9 208	22 198	22 500	11 042	573	51	8.9	28	13.1	18	10.5	8	9.8	7	4.8
North Kohala division	11 423	31 026	34 653	15 272	4 167	302	7.2	119	9.4	77	8.4	35	6.0	61	6.0
Halaula CDP	11 247	37 656	27 292	16 042	429	44	10.3	14	12.7	5	6.6	20	34.5	14	12.3
Hawi CDP	10 275	29 635	38 333	11 250	912	44	4.8	7	2.3	7	3.1	9	8.7	10	4.8
Kapaau CDP	9 611	30 250	31 417	14 444	1 088	128	11.8	72	22.0	46	19.8	—	—	22	7.6
North Kona division	17 497	35 364	39 329	24 371	21 519	2 032	9.4	663	11.6	391	9.8	99	4.5	385	6.8
Holualoa CDP	21 026	38 589	44 883	24 755	3 709	282	7.6	75	10.2	39	8.4	14	2.7	55	5.4
Honalo CDP	16 016	30 775	30 368	27 895	1 948	196	10.1	80	17.5	70	23.2	11	5.0	34	6.5
Kahaluu-Keauhou CDP	20 799	38 333	43 490	26 625	1 900	179	9.4	60	13.7	27	8.1	5	1.4	28	5.0
Kailua CDP	13 363	30 665	35 717	22 274	8 675	1 006	11.6	307	11.7	151	8.0	60	9.1	192	9.1
Kalaea CDP	22 802	42 157	41 800	33 409	4 485	316	7.0	116	9.7	88	10.3	9	2.6	68	5.6
Kealahou CDP (pt.)	12 134	29 583	40 469	5 360	1 009	—	—	—	—	—	—	—	—	—	—
Paauhau-Paauilo division	10 812	25 727	29 737	9 612	1 849	148	8.0	49	9.7	27	7.7	16	5.7	26	5.1
Honokaa CDP (pt.)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Paauilo CDP	10 862	25 481	26 587	16 250	587	58	9.9	26	19.4	10	13.7	8	7.1	9	5.9
Pahoa-Kalapana division	8 205	18 360	18 910	10 647	6 699	2 148	32.1	947	41.4	705	41.4	129	18.1	498	30.4
Hawaiian Beaches CDP	7 297	19 231	18 500	11 667	2 759	1 079	39.1	555	51.6	419	48.9	35	14.8	255	37.8
Pahoa CDP	9 326	21 705	26 705	7 988	1 099	247	22.5	83	28.3	70	29.3	44	19.5	53	18.7
Papaikou-Wailea division	10 571	24 043	26 477	10 761	5 003	756	15.1	340	25.9	198	21.5	75	7.7	155	11.3
Honoum CDP	9 218	24 821	25 240	7 337	563	76	13.5	41	38.3	35	42.2	11	7.9	13	7.6
Papaikou CDP	11 236	26 131	27 083	19 375	1 602	153	9.6	59	15.5	36	12.9	14	5.4	40	8.9
Paukaa CDP	22 411	43 558	44 135	16 000	520	11	2.1	—	—	—	—	11	8.7	—	—
Pepeekeo CDP	7 371	16 655	19 375	5 449	1 734	468	27.0	213	39.4	127	33.2	33	9.5	94	20.4
South Kohala division	16 286	39 857	41 805	31 525	8 971	922	10.3	393	15.4	269	14.6	38	5.8	165	7.5
Puako CDP	19 205	30 739	39 167	23 083	446	44	9.9	—	—	—	—	—	—	—	—
Waikoloa Village CDP	20 758	44 444	44 236	45 417	2 224	212	9.5	79	18.2	35	13.9	10	8.8	65	10.8
Waimea CDP	14 319	37 069	40 848	22 250	5 884	613	10.4	314	16.6	234	16.5	20	4.2	100	7.1
South Kona division	13 051	31 292	35 263	15 691	7 665	1 087	14.2	407	18.2	335	20.7	81	9.3	174	8.8
Captain Cook CDP	16 182	38 750	41 109	18 889	2 704	190	7.0	58	7.6	52	10.0	7	2.5	29	3.7
Honauunoo-Napoopoo CDP	11 131	27 382	31 410	12 474	2 362	375	15.9	130	18.8	84	15.9	7	2.9	52	9.7
Kealahou CDP (pt.)	14 407	27 761	39 375	16 759	1 198	127	10.6	33	12.2	33	16.1	42	16.4	18	5.7
Honolulu County	16 256	40 581	45 313	25 685	803 204	60 093	7.5	20 191	10.1	13 284	9.5	6 888	7.8	10 733	5.4
Ewa division	15 207	47 218	49 369	33 104	220 802	10 746	4.9	4 126	6.6	2 491	5.8	882	6.0	2 041	3.7
Aiea CDP	18 506	54 825	57 378	28 750	8 855	373	4.2	107	6.1	58	4.4	57	3.8	51	2.3
Barbers Point Housing CDP	9 594	23 908	23 689	18 750	2 258	29	1.3	14	2.1	—	—	—	—	8	0.9
Ewa Beach CDP	11 114	45 184	46 953	21 917	14 210	932	6.6	316	7.4	241	7.6	40	4.1	158	5.5
Ewa Gentry CDP	17 873	45 824	50 000	33 542	2 071	117	5.8	34	8.3	—	—	—	—	25	4.7
Ewa Villages CDP	10 248	40 924	42 259	11 161	3 728	54	1.4	6	6.6	6	8.8	16	2.8	9	1.1
Halaula CDP	16 312	48 006	49 904	35 484	13 196	1 059	8.0	426	13.2	302	13.3	109	7.8	182	5.4
Hickam Housing CDP	10 194	31 579	31 430	32 250	6 484	163	2.5	96	3.6	61	3.3	—	—	29	1.7
Iroquois Point CDP	9 105	29 593	29 589	29 643	4 188	124	3.0	61	3.4	20	1.9	—	—	33	2.7
Makakilo City CDP	16 199	50 284	51 338	43 214	9 811	330	3.4	111	4.1	87	4.6	14	4.3	63	2.6
Mililani Town CDP	17 898	55 337	56 792	39 333	29 282	507	1.7	181	1.9	133	1.9	19	1.8	106	1.4
Pearl City CDP	15 580	50 752	52 879	23 008	30 876	1 087	3.5	367	5.0	185	3.5	132	4.9	190	2.4
Village Park CDP	16 043	56 120	56 880	40 804	7 377	133	1.8	52	2.1	28	1.7	—	—	28	1.5
Waimalu CDP	20 426	51 985	56 359	35 870	29 712	913	3.1	319	4.6	191	3.9	30	1.7	144	1.9
Waipahu CDP	10 875	38 380	40 635	17 691	31 154	4 161	13.4	1 825	20.5	1 075	17.0	418	12.7	857	12.8
Waipio CDP	18 618	51 787	53 916	39 491	11 780	182	1.5	—	—	—	—	31	9.0	24	0.8
Waipio Acres CDP	13 097	36 316	36 375	29 750	5 279	228	4.3	76	5.8	34	4.8	12	4.6	55	3.8
Honolulu division	18 251	36 820	44 143	24 184	367 224	30 561	8.3	8 008	11.0	5 481	10.6	4 743	8.5	5 012	5.5
Aliamanu CDP	7 698	25 8													

Table 9. Income and Poverty Status in 1989: 1990—Con.

[Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text]

State County County Subdivision Place	Median income in 1989 (dollars)				Persons for whom poverty status is determined								Families with income in 1989 below poverty level			
	Per capita income in 1989 (dollars)	Households	Families	Nonfamily households	Total	Income in 1989 below poverty level								Number	Percent of all families	
						All ages		Related children				Persons 65 years and over				
						Number	Percent	Under 18 years		5 to 17 years		Number	Percent			
Honolulu County—Con.																
Wahiawa division	10 721	29 612	30 377	16 193	37 249	3 525	9.5	1 750	13.4	952	11.6	204	7.8	789	8.1	
Schofield Barracks CDP	8 531	25 553	25 505	11 875	13 543	1 184	8.7	692	11.0	356	9.4	—	—	236	6.7	
Wahiawa CDP	13 602	33 173	36 288	15 701	17 267	2 109	12.2	956	21.0	554	18.6	192	8.9	498	10.8	
Wheeler AFB CDP	8 917	25 821	25 929	16 250	2 359	84	3.6	42	4.6	10	1.9	—	—	17	2.4	
Whitmore Village CDP	10 438	42 962	43 125	30 938	3 341	148	4.4	60	5.9	32	4.4	12	3.2	38	5.0	
Waialua division	12 735	36 841	38 156	23 993	11 324	1 021	9.0	360	11.7	267	12.1	110	8.1	189	7.2	
Haleiwa CDP	11 330	32 000	37 095	7 467	2 169	292	13.5	121	19.0	97	20.8	56	18.5	43	8.4	
Mokuleia CDP	17 142	37 045	37 019	34 219	1 667	122	7.3	43	12.3	15	7.7	9	7.7	23	5.2	
Waialua CDP	12 243	33 438	37 826	15 536	4 022	322	8.0	128	12.3	113	14.4	30	4.8	62	6.4	
Waianae division	9 670	32 392	33 818	21 191	37 078	7 084	19.1	3 441	25.7	2 434	24.8	359	14.2	1 418	17.9	
Mali CDP	10 869	39 847	41 013	27 250	5 969	943	15.8	434	20.8	305	19.3	38	9.9	165	13.8	
Makaha CDP	10 212	29 213	30 402	23 176	7 849	1 629	20.8	853	30.3	620	29.8	27	4.6	375	21.3	
Makaha Valley CDP	13 633	27 419	27 016	33 194	1 055	64	6.1	21	8.6	—	—	—	—	14	4.4	
Nanakuli CDP	8 164	34 447	34 939	21 149	9 520	1 873	19.7	934	25.5	648	24.3	138	23.8	376	20.4	
Waianae CDP	9 716	33 470	36 103	12 609	8 681	1 496	17.2	703	22.6	508	21.5	81	14.6	298	16.0	
Kalawao County	11 281	10 000	41 250	5 000	110	48	43.6	—	—	—	—	14	40.0	—	—	
Kalawao division	11 281	10 000	41 250	5 000	110	48	43.6	—	—	—	—	14	40.0	—	—	
Kauai County	14 254	37 425	41 099	20 867	50 460	3 640	7.2	1 128	8.1	812	8.0	591	9.1	631	5.0	
Elele-Kalaheo division	14 861	42 762	45 476	19 583	6 464	314	4.9	65	3.6	50	3.7	130	13.7	43	2.6	
Elele CDP (pt.)	12 333	33 990	39 196	6 983	1 411	172	12.2	39	9.9	39	12.7	69	22.0	28	7.7	
Hanapepe CDP (pt.)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Kalaheo CDP	15 702	45 348	46 440	30 500	3 586	76	2.1	—	—	—	—	44	10.2	—	—	
Lawai CDP (pt.)	17 012	46 211	47 070	21 905	950	18	1.9	7	2.5	—	—	—	—	4	1.6	
Omao CDP (pt.)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Hanalei division	17 754	37 407	42 740	21 458	4 464	209	4.7	9	.8	6	.7	27	5.5	28	2.4	
Hanalei CDP	18 981	33 304	37 308	15 368	386	51	13.2	9	12.3	6	9.8	4	5.5	7	7.4	
Kalihiwai CDP	15 718	31 458	22 155	35 469	495	38	7.7	—	—	—	—	15	45.7	13	11.2	
Kilauea CDP	14 034	40 793	45 625	17 083	1 736	39	2.2	—	—	—	—	8	3.8	—	—	
Princeville CDP	23 818	45 469	45 476	45 156	1 202	57	4.7	—	—	—	—	—	—	8	2.4	
Kapaa division	11 610	30 324	33 005	16 441	6 679	714	10.7	294	13.5	211	13.9	79	11.8	161	10.0	
Kapaa CDP (pt.)	11 610	30 324	33 005	16 441	6 679	714	10.7	294	13.5	211	13.9	79	11.8	161	10.0	
Kaumakani-Hanapepe division	10 436	29 960	32 902	16 080	2 871	167	5.8	27	3.7	27	5.2	50	9.0	21	2.8	
Elele CDP (pt.)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Hanapepe CDP (pt.)	11 894	29 271	33 571	15 859	1 356	51	3.8	—	—	—	—	35	12.0	—	—	
Kaumakani CDP	9 328	42 569	43 125	13 750	796	14	1.8	—	—	—	—	8	5.6	4	2.2	
Pakala Village CDP	8 901	24 333	28 438	17 500	601	102	17.0	27	19.6	27	30.0	7	5.9	17	10.8	
Kekaha-Waimea division	12 992	34 675	40 868	8 890	5 585	562	10.1	190	11.6	143	11.9	121	15.3	82	6.0	
Kekaha CDP	12 082	33 682	40 256	6 457	3 489	481	13.8	176	16.1	129	16.2	98	20.4	73	8.7	
Waimea CDP	13 372	35 700	41 538	17 059	1 771	81	4.6	14	3.0	14	4.1	23	7.7	9	2.2	
Koloa-Poipu division	14 882	38 942	43 304	22 446	4 862	331	6.8	60	4.7	39	4.1	51	8.1	45	3.6	
Koloa CDP	10 243	31 207	35 170	11 250	1 696	204	12.0	21	5.1	—	—	29	9.1	37	9.0	
Lawai CDP (pt.)	16 360	45 764	46 406	25 536	908	30	3.3	—	—	—	—	13	14.3	—	—	
Omao CDP (pt.)	12 744	43 873	44 367	30 500	1 099	9	.8	—	—	—	—	9	9.0	—	—	
Poipu CDP	23 481	40 500	49 125	32 614	1 052	88	8.4	39	18.1	39	24.7	—	—	8	2.7	
Lihue division	19 570	41 169	48 472	25 764	5 190	244	4.7	90	8.4	53	6.2	36	3.7	41	3.2	
Lihue CDP (pt.)	19 570	41 169	48 472	25 764	5 190	244	4.7	90	8.4	53	6.2	36	3.7	41	3.2	
Niihau division	3 118	16 250	16 250	—	240	109	45.4	52	50.0	35	52.2	—	—	21	58.3	
Puhi-Hanamaulu division	10 555	40 739	41 334	15 074	5 309	395	7.4	148	9.5	103	9.2	46	7.4	73	6.0	
Hanamaulu CDP	9 509	38 162	39 183	11 875	3 552	370	10.4	148	13.0	103	12.0	41	8.5	73	9.2	
Lihue CDP (pt.)	16 133	52 567	53 179	50 480	244	—	—	—	—	—	—	—	—	—	—	
Puhi CDP	12 509	45 476	45 833	26 250	1 213	16	1.3	—	—	—	—	5	4.0	—	—	
Waialua-Anahola division	15 188	39 632	41 450	30 096	8 796	595	6.8	193	8.1	145	8.7	51	6.4	116	5.3	
Anahola CDP	14 000	39 044	48 958	15 938	1 186	168	14.2	64	20.2	64	26.9	7	9.2	38	16.4	
Kapaa CDP (pt.)	14 691	38 405	37 679	22 440	1 311	72	5.5	20	6.7	16	8.0	—	—	15	4.8	
Waialua CDP	13 876	37 546	39 837	33 553	1 990	115	5.8	41	7.4	19	4.7	12	5.1	16	3.1	
Waialua Homesteads CDP	16 602	41 928	41 938	32 500	3 847	229	6.0	68	6.2	46	5.9	32	11.7	47	4.7	
Maui County	15 616	38 771	42 129	25 013	99 234	7 851	7.9	2 448	9.5	1 585	8.6	825	7.5	1 388	5.7	
East Molokai division	9 169	25 324	28 051	10 417	1 122	122	25.2	478	29.7	331	29.1	96	19.5	188	18.6	
Kaunakakai CDP	9 863	25 701	30 370	8 276	2 602	507	19.5	193	20.9	125	19.8	32	9.6	87	14.5	
Haiuku-Pauwela division	13 734	36 272	37 408	24 132	5 713	576	10.1	190	10.9	125	9.8	25	7.6	128	9.5	
Haiuku-Pauwela CDP	14 117	36 994	38 364	24 934	4 536	372	8.2	124	9.0	80	7.5	19	6.4	82	7.7	
Hana division	10 315	25 881	26 486	24 861	1 878	392	20.9	140	24.0	89	24.1	49	22.1	61	16.1	
Hana CDP	10 613	27 250	24 625	28 333	619	93	15.0	45	24.2	16	17.2	12	16.0	7	5.9	
Kahului division	12 772	38 390	42 244	14 551	16 360	996	6.1	298	7.1	156	5.3	269	10.7	190	4.8	
Kahului CDP (pt.)	12 772	38 390	42 244	14 551	16 360	996	6.1	298	7.1	156	5.3	269	10.7	190	4.8	
Kihei division	19 044	40 558	43 835	30 993	12 837	824	6.4	307	10.7	197	10.0	48	4.5	156	5.0	
Kihei CDP	18 688	40 160	43 217	28 412	10 832	785	7.2	307	12.2	197	11.4	40	5.2	156	6.2	
Maalaea CDP	24 332	38 207	46 094	34 545	658	—	—	—	—	—	—	—	—	—	—	
Wailea-Makena CDP (pt.)	19 337	45 208	46 910	40 144	1 330	39	2.9	—	—	—	—	8	4.8	—	—	
Kula division	20 960	41 875	50 233	26 826	7 840	600	7.7	163	8.6	121	8.8	44	4.7	120	5.7	
Wailea-Makena CDP (pt.)	28 091	46 019	54 260	26 809	2 469	173	7.0	22	5.1	22	7.2	13	4.6	21	3.2	
Lahaina division	17 872	41 255	44 909	32 024	14 450	951	6.6	187	6.1	122	5.9	39	2.8	102	3.4	
Kaanapali CDP	35 509	72 012	82 601	51 168	568	24	4.2	—	—	—	—	—	—	—	—	
Kapalua CDP	20 943	46 458														

Table 9. **Income and Poverty Status in 1989: 1990—Con.**

[Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text]

State County County Subdivision Place	Per capita income in 1989 (dollars)	Median income in 1989 (dollars)			Persons for whom poverty status is determined								Families with income in 1989 below poverty level			
		House- holds	Families	Nonfamily house- holds	Total	Income in 1989 below poverty level								Number	Percent of all families	
						All ages		Related children				Persons 65 years and over				
						Number	Percent	Under 18 years		5 to 17 years		Number	Percent			
Maui County—Con.																
West Molokai division	10 075	26 522	31 895	10 764	2 188	228	10.4	87	11.0	68	11.2	35	17.5	51	8.9	
Kualapuu CDP	9 661	27 120	32 258	9 818	1 661	170	10.2	54	9.3	35	7.7	30	18.4	45	10.4	
Maunaloa CDP	6 825	19 219	19 779	17 857	428	58	13.6	33	17.7	33	26.0	5	16.1	6	6.2	

Table 10. Income and Poverty Status in 1989: 1990

[Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text]

State County Place and [In Selected States] County Subdivision	Per capita income in 1989 (dollars)	Median income in 1989 (dollars)			Persons for whom poverty status is determined										Families with income in 1989 below poverty level	
		House- holds	Families	Nonfamily house- holds	Total	All ages		Income in 1989 below poverty level				Persons 65 years and over		Number	Percent of all families	
						Number	Percent	Related children		Number	Percent	Number	Percent			
		Under 18 years	5 to 17 years	Number	Percent											
The State	15 770	38 829	43 176	24 376	1 071 352	88 408	8.3	30 440	11.1	20 303	10.5	9 701	8.0	16 053	6.0	
COUNTY																
Hawaii County	13 169	29 712	33 186	17 375	118 344	16 776	14.2	6 673	19.8	4 622	18.8	1 383	9.4	3 351	10.9	
Honolulu County	16 256	40 581	45 313	25 685	803 204	60 093	7.5	20 191	10.1	13 284	9.5	6 888	7.8	10 733	5.4	
Kalawao County	11 281	10 000	41 250	5 000	110	48	43.6	—	—	—	—	14	40.0	—	—	
Kauai County	14 254	37 425	41 099	20 867	50 460	3 640	7.2	1 128	8.1	812	8.0	591	9.1	631	5.0	
Maui County	15 616	38 771	42 129	25 013	99 234	7 851	7.9	2 448	9.5	1 585	8.6	825	7.5	1 338	5.7	
PLACE AND COUNTY SUBDIVISION																
Ahuimanu CDP, Honolulu County	17 832	55 044	56 088	41 490	8 319	305	3.7	91	3.6	77	4.3	8	2.0	52	2.5	
Aiea CDP, Honolulu County	18 506	54 825	57 378	28 750	8 855	373	4.2	107	6.1	58	4.4	57	3.8	51	2.3	
Aliamanu CDP, Honolulu County	7 698	25 849	25 743	—	8 835	563	6.4	337	8.6	235	9.7	9	10.5	105	4.4	
Anahola CDP, Kauai County	14 000	39 044	48 958	15 938	1 186	168	14.2	64	20.2	64	26.9	7	9.2	38	16.4	
Barbers Point Housing CDP, Honolulu County	9 594	23 908	23 689	18 750	2 258	29	1.3	14	2.1	—	—	—	—	8	.9	
Captain Cook CDP, Hawaii County	16 182	38 750	41 109	18 889	2 704	190	7.0	58	7.6	52	10.0	7	2.5	29	3.7	
Elele CDP, Kauai County	12 333	33 990	39 196	6 983	1 411	172	12.2	39	9.9	39	12.7	69	22.0	28	7.7	
Ewa Beach CDP, Honolulu County	11 114	45 184	46 953	21 917	14 210	932	6.6	316	7.4	241	7.6	40	4.1	158	5.5	
Ewa Gentry CDP, Honolulu County	17 873	45 824	50 000	33 542	2 028	117	5.8	34	8.3	—	—	—	—	25	4.7	
Ewa Villages CDP, Honolulu County	10 248	40 924	42 259	11 161	3 771	54	1.4	6	.6	6	.8	16	2.8	9	1.1	
Fort Shafter CDP, Honolulu County	12 364	29 858	30 074	26 250	2 687	125	4.7	66	7.0	29	5.2	—	—	33	3.6	
Haiku-Pauwela CDP, Maui County	14 117	36 994	38 364	24 934	4 536	372	8.2	124	9.0	80	7.5	19	6.4	82	7.7	
Halaupa CDP, Hawaii County	11 247	37 656	27 292	16 042	429	44	10.3	14	12.7	5	6.6	20	34.5	14	12.3	
Halawa CDP, Honolulu County	16 312	48 006	49 904	35 484	13 196	1 059	8.0	426	13.2	302	13.3	109	7.8	182	5.4	
Haleiwa CDP, Honolulu County	11 330	32 000	37 095	7 467	2 169	292	13.5	121	19.0	97	20.8	56	18.5	43	8.4	
Haliimaile CDP, Maui County	11 318	37 813	33 713	55 066	887	45	5.1	—	—	—	—	—	—	—	—	
Hana CDP, Maui County	10 613	27 250	24 625	28 333	619	93	15.0	45	24.2	16	17.2	12	16.0	7	5.9	
Hanalei CDP, Kauai County	18 981	33 304	37 308	15 368	386	51	13.2	9	12.3	6	9.8	4	5.5	7	7.4	
Hanamaulu CDP, Kauai County	9 509	38 162	39 183	11 875	3 552	370	10.4	148	13.0	103	12.0	41	8.5	73	9.2	
Hanapepe CDP, Kauai County	11 894	29 271	33 571	15 859	1 356	51	3.8	—	—	—	—	35	12.0	—	—	
Hauula CDP, Honolulu County	11 213	35 652	37 283	15 000	3 326	467	14.0	207	17.2	144	16.9	39	17.4	85	12.0	
Hawaiian Beaches CDP, Hawaii County ..	7 297	19 231	18 500	11 667	2 759	1 079	39.1	555	51.6	419	48.9	35	14.8	255	37.8	
Hawaiian Ocean View CDP, Hawaii County	13 246	22 070	25 485	17 500	980	184	18.8	42	20.4	22	15.4	17	12.9	20	8.0	
Hawaiian Paradise Park CDP, Hawaii County	10 465	24 149	23 451	16 875	3 332	436	13.1	217	20.2	162	20.4	12	4.2	109	12.3	
Hawi CDP, Hawaii County	10 275	29 635	38 333	11 250	912	44	4.8	7	2.3	7	3.1	9	8.7	10	4.8	
Heia CDP, Honolulu County	25 553	68 416	69 866	43 542	4 989	120	2.4	31	2.9	15	1.9	—	—	19	1.5	
Hickam Housing CDP, Honolulu County ..	10 194	31 579	31 430	32 250	6 484	163	2.5	96	3.6	61	3.3	—	—	29	1.7	
Hilo CDP, Hawaii County	13 373	30 014	35 570	15 700	37 061	5 383	14.5	2 098	20.7	1 424	18.7	574	10.9	1 104	11.3	
Holualoa CDP, Hawaii County	21 026	38 589	44 883	24 755	3 709	282	7.6	75	10.2	39	8.4	14	2.7	55	5.4	
Honalo CDP, Hawaii County	16 016	30 775	30 368	27 895	1 948	196	10.1	80	17.5	70	23.2	11	5.0	34	6.5	
Honaunau-Napoopoo CDP, Hawaii County	11 131	27 782	31 410	12 474	2 362	375	15.9	130	18.8	84	15.9	7	2.9	52	9.7	
Honokaa CDP, Hawaii County	10 796	29 864	33 548	11 316	2 296	259	11.3	140	21.4	100	19.7	32	8.8	39	6.3	
Honolulu CDP, Honolulu County	18 554	37 190	45 227	24 177	355 702	29 873	8.4	7 605	11.2	5 217	10.7	4 734	8.5	4 874	5.5	
Honoumu CDP, Hawaii County	9 218	24 821	25 240	7 337	1 463	76	13.5	41	38.3	35	42.2	11	7.9	13	7.6	
Iroquois Point CDP, Honolulu County	9 105	29 593	29 589	29 643	4 188	124	3.0	61	3.4	20	1.9	—	—	33	2.7	
Kaaawa CDP, Honolulu County	14 827	37 441	39 620	15 000	1 275	78	6.1	19	5.1	7	2.7	—	—	12	4.0	
Kaanapali CDP, Maui County	35 509	72 012	82 601	51 168	568	24	4.2	—	—	—	—	—	—	—	—	
Kahalua CDP, Honolulu County	15 408	43 125	42 357	40 125	3 057	159	5.2	34	4.6	15	3.0	12	3.9	36	4.7	
Kahaluu-Keauhou CDP, Hawaii County ..	20 799	38 333	43 490	26 625	1 900	179	9.4	60	13.7	27	8.1	5	1.4	28	5.0	
Kahuku CDP, Honolulu County	8 395	25 523	27 344	7 602	1 978	106	5.4	52	7.1	43	7.4	11	4.4	11	2.5	
Kahului CDP, Maui County	12 717	38 305	42 205	14 219	16 566	1 056	6.4	298	7.1	156	5.2	278	10.9	190	4.8	
Kailua CDP, Hawaii County	13 363	30 665	35 717	22 274	8 675	1 006	11.6	307	11.7	151	8.0	60	9.1	192	9.0	
Kailua CDP, Honolulu County	20 008	55 259	57 537	30 896	36 744	1 240	3.4	277	3.2	177	2.8	198	5.0	209	2.1	
Kalaheo CDP, Kauai County	15 702	45 348	46 440	30 500	3 586	76	2.1	—	—	—	—	44	10.2	—	—	
Kalaooa CDP, Hawaii County	22 802	42 157	41 800	33 409	4 485	316	7.0	116	9.7	88	10.3	9	2.6	68	5.6	
Kalihiwai CDP, Kauai County	15 718	31 458	22 155	35 469	495	38	7.7	—	—	—	—	15	45.5	13	11.2	
Kaneohe CDP, Honolulu County	16 479	49 770	51 116	30 291	34 651	1 690	4.9	569	6.6	413	6.8	143	4.1	262	2.9	
Kaneohe Station CDP, Honolulu County ..	8 814	26 927	26 405	27 500	7 672	339	4.4	187	5.3	108	5.5	—	—	85	4.3	
Kapaa CDP, Kauai County	12 118	32 439	33 891	17 350	7 990	786	9.8	314	12.7	227	13.2	79	9.9	176	9.2	
Kapaa CDP, Hawaii County	9 611	30 250	31 417	14 444	1 088	128	11.8	72	22.0	46	19.8	—	—	22	7.6	
Kapalua CDP, Maui County	20 943	46 458	63 114	38 542	394	161	40.9	27	100.0	18	100.0	—	—	6	9.1	
Kaumakani CDP, Kauai County	9 328	42 509	43 125	13 750	796	14	1.8	—	—	—	—	8	5.6	4	2.2	
Kaunakakai CDP, Maui County	9 863	25 701	30 370	8 276	2 602	567	19.5	193	20.9	125	19.8	32	9.6	87	14.5	
Kawela Bay CDP, Honolulu County	22 949	38 125	36 806	35 179	409	8	2.0	—	—	—	—	—	—	—	—	
Keaua CDP, Hawaii County	9 920	23 839	33 092	6 031	1 568	259	16.5	104	26.1	69	24.6	35	11.9	35	9.4	
Kealahou CDP, Hawaii County	14 192	27 875	40 156	16 528	1 307	127	9.7	33	11.0	33	14.0	42	15.7	18	5.1	
Kekaha CDP, Kauai County	12 082	33 682	40 256	6 457	3 489	481	13.8	176	16.1	129	16.2	98	20.4	73	8.7	
Kihei CDP, Maui County	18 688	40 160	43 217	28 412	10 832	785	7.2	307	12.2	197	11.4	40	5.2	156	6.2	
Kilauea CDP, Kauai County	14 034	40 793	45 625	17 083	1 736	39	2.2	—	—	—	—	8	3.8	—	—	
Koioa CDP, Kauai County	10 243	31 207	35 170	11 250	1 696	204	12.0	21	5.1	—	—	29	9.1	37	9.0	
Kualapuu CDP, Maui County	9 661	27 120	32 258	9 818	1 661	170	10.2	54	9.3	35	7.7	30	18.4	45	10.4	
Kukuihaele CDP, Hawaii County	8 463	30 313	30 982	8 447	245	—	—	—	—	—	—	—	—	—	—	
Kurtistown CDP, Hawaii County	11 433	30 521	34 727	15 326	819	83	10.1	31	14.5	21	14.3	19	13.3	14	5.8	
Lahaina CDP, Maui County																

Table 10. **Income and Poverty Status in 1989: 1990—Con.**

[Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text]

State County Place and [In Selected States] County Subdivision	Per capita income in 1989 (dollars)	Median income in 1989 (dollars)			Persons for whom poverty status is determined								Families with income in 1989 below poverty level					
		House- holds	Families	Nonfamily house- holds	Total	Income in 1989 below poverty level								Number	Percent			
						All ages		Related children				Persons 65 years and over						
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent			
PLACE AND COUNTY SUBDIVISION —Con.																		
Naalehu CDP, Hawaii County	8 308	21 563	23 929	10 313	1 086	144	13.3	68	19.2	58	21.2	6	3.5	39	13.0			
Nanakuli CDP, Honolulu County	8 164	34 447	34 939	21 149	9 520	1 873	19.7	934	25.5	648	24.3	138	23.8	376	20.4			
Napili-Honokowai CDP, Maui County	21 675	37 912	41 893	31 687	4 334	237	5.5	17	2.0	11	2.1	—	—	32	3.7			
Omao CDP, Kauai County	12 744	43 873	44 367	30 500	1 099	9	.8	—	—	—	—	9	9.0	—	—			
Paaulo CDP, Hawaii County	10 862	25 481	26 587	16 250	587	58	9.9	26	19.4	10	13.7	8	7.1	9	5.9			
Pahala CDP, Hawaii County	8 788	20 915	24 342	10 125	1 410	136	9.6	61	13.1	41	10.9	20	8.5	30	8.7			
Pahoa CDP, Hawaii County	9 326	21 705	26 705	7 988	1 099	247	22.5	83	28.3	70	29.3	44	19.5	53	18.7			
Paia CDP, Maui County	13 458	39 282	39 890	21 250	2 099	162	7.7	46	7.7	—	—	18	8.0	19	4.2			
Pakala Village CDP, Kauai County	8 901	24 333	28 438	17 500	601	102	17.0	27	19.6	27	30.0	7	5.9	17	10.8			
Papaikou CDP, Hawaii County	11 236	26 131	27 083	19 375	1 602	153	9.6	59	15.5	36	12.9	14	5.4	40	8.9			
Paukaa CDP, Hawaii County	22 411	43 558	44 135	16 000	520	11	2.1	—	—	—	—	11	8.7	—	—			
Pearl City CDP, Honolulu County	15 580	50 752	52 879	23 008	30 876	1 087	3.5	367	5.0	185	3.5	132	4.9	190	2.4			
Pepeekeo CDP, Hawaii County	7 371	16 655	19 375	5 449	1 734	468	27.0	213	39.4	127	33.2	33	9.5	94	20.4			
Poipu CDP, Kauai County	23 481	40 500	49 125	32 614	1 052	88	8.4	39	18.1	39	24.7	—	—	8	2.7			
Princeville CDP, Kauai County	23 818	45 469	45 476	45 156	1 202	57	4.7	—	—	—	—	—	—	8	2.4			
Puako CDP, Hawaii County	19 205	30 739	39 167	23 083	446	44	9.9	—	—	—	—	—	—	—	—			
Puhi CDP, Kauai County	12 509	45 476	45 833	26 250	1 213	16	1.3	—	—	—	—	5	4.0	—	—			
Pukalani CDP, Maui County	15 905	42 321	45 565	27 955	5 851	384	6.6	142	8.2	93	7.3	22	4.7	69	4.5			
Punaluu CDP, Honolulu County	26 542	29 375	50 720	26 875	625	134	21.4	55	42.3	34	45.9	13	18.3	29	18.8			
Pupukea CDP, Honolulu County	16 065	38 382	42 198	28 242	4 078	361	8.9	108	9.4	67	8.4	22	8.4	67	7.6			
Schofield Barracks CDP, Honolulu County ..	8 531	25 553	25 505	11 875	13 543	1 184	8.7	692	11.0	356	9.4	—	—	236	6.7			
Village Park CDP, Honolulu County	16 043	56 120	56 880	40 804	7 377	133	1.8	52	2.1	28	1.7	—	—	28	1.5			
Volcano CDP, Hawaii County	12 896	27 963	32 250	19 853	1 476	394	26.7	156	36.5	106	35.1	11	5.9	80	21.3			
Wahiawa CDP, Honolulu County	13 602	33 173	36 288	15 701	17 267	2 109	12.2	956	21.0	554	18.6	192	8.9	498	10.8			
Waiailua CDP, Honolulu County	12 243	33 438	37 826	15 536	4 022	322	8.0	128	12.3	113	14.4	30	4.8	62	6.4			
Waianae CDP, Honolulu County	9 716	33 470	36 103	12 609	8 681	1 496	17.2	703	22.6	508	21.5	81	14.6	298	16.0			
Waihee-Waihehu CDP, Maui County	13 206	46 458	47 188	26 875	3 985	58	1.5	27	2.0	27	2.8	—	—	15	1.6			
Waikane CDP, Honolulu County	11 982	42 292	45 179	15 250	689	82	11.9	42	19.8	31	19.0	—	—	17	12.1			
Waikapu CDP, Maui County	11 798	44 583	48 333	6 715	790	66	8.4	10	3.6	10	4.3	14	14.6	12	7.1			
Waikoloa Village CDP, Hawaii County	20 758	44 444	44 236	45 417	2 224	212	9.5	79	18.2	35	13.9	10	8.8	65	10.8			
Wailea-Makena CDP, Maui County	25 026	45 556	51 904	28 646	3 799	212	5.6	22	3.0	22	4.2	21	4.7	21	2.0			
Wailua CDP, Kauai County	13 876	37 546	39 837	33 553	1 990	115	5.8	41	7.4	19	4.7	12	5.1	16	3.1			
Wailua Homesteads CDP, Kauai County ..	16 602	41 928	41 938	32 500	3 847	229	6.0	68	6.2	46	5.9	32	11.7	47	4.7			
Wailuku CDP, Maui County	16 206	38 540	46 337	21 302	10 370	582	5.6	178	7.7	102	6.0	59	3.5	103	4.1			
Waimalu CDP, Honolulu County	20 426	51 985	56 359	35 870	29 712	913	3.1	319	4.6	191	3.9	30	1.7	144	1.9			
Waimanalo CDP, Honolulu County	11 038	42 108	42 995	15 139	3 493	398	11.4	211	18.5	177	20.4	23	11.0	77	10.4			
Waimanalo Beach CDP, Honolulu County ..	11 277	44 893	46 307	30 855	4 185	251	6.0	69	5.6	48	5.3	42	10.1	49	6.4			
Waimea CDP, Hawaii County	14 319	37 069	40 848	22 250	5 884	613	10.4	314	16.6	234	16.5	20	4.2	100	7.1			
Waimea CDP, Kauai County	13 372	35 700	41 538	17 059	1 771	81	4.6	14	3.0	14	4.1	23	7.7	9	2.2			
Wainaku CDP, Hawaii County	10 218	26 328	32 885	13 828	1 323	170	12.8	73	20.8	50	21.1	12	5.4	37	10.8			
Waipahu CDP, Honolulu County	10 875	38 380	40 635	17 691	31 154	4 161	13.4	1 825	20.5	1 075	17.0	418	12.7	857	12.8			
Waipio CDP, Honolulu County	18 618	51 787	53 916	39 491	11 780	182	1.5	—	—	—	—	31	9.0	24	.8			
Waipio Acres CDP, Honolulu County	13 097	36 316	36 375	29 750	5 279	228	4.3	76	5.8	34	4.8	12	4.6	55	3.8			
Wheeler AFB CDP, Honolulu County	8 917	25 821	25 929	16 250	2 359	84	3.6	42	4.6	10	1.9	—	—	17	2.4			
Whitmore Village CDP, Honolulu County ..	10 438	42 962	43 125	30 938	3 341	148	4.4	60	5.9	32	4.4	12	3.2	38	5.0			

Table 11. Structural, Plumbing, and Equipment Characteristics: 1990

[Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text]

State County County Subdivision Place	All housing units	Percent								
		Year structure built		Bedrooms		Condominium	Lacking complete plumbing facilities	With public water system or private company	With public sewer	Lacking complete kitchen facilities
		1980 to March 1990	1939 or earlier	None or 1	4 or more					
The State -----	389 810	20.8	6.7	26.1	13.4	20.8	1.1	97.6	80.2	1.6
Hawaii County -----	48 253	35.1	10.8	19.5	10.5	8.1	3.6	84.6	27.8	3.4
Hilo division -----	14 700	17.6	10.6	19.9	12.6	7.6	.5	99.1	35.9	1.7
Hilo CDP -----	14 135	17.6	9.9	20.3	12.5	7.9	.4	99.2	37.3	1.8
Mountain View CDP (pt.) -----	---	---	---	---	---	---	---	---	---	---
Wainaku CDP -----	416	13.0	31.5	5.3	15.6	---	1.2	100.0	3.4	---
Honokaa-Kukuihaele division -----	1 345	25.5	31.8	14.9	11.8	1.4	2.0	97.8	5.0	3.3
Honokaa CDP (pt.) -----	830	25.4	23.9	15.4	7.8	2.3	.5	100.0	6.0	1.9
Kukuihaele CDP -----	82	---	87.8	13.4	19.5	---	---	100.0	4.9	13.4
Kau division -----	1 938	45.1	15.5	20.9	9.5	2.5	11.1	62.0	14.1	8.4
Hawaiian Ocean View CDP -----	619	74.5	3.4	37.8	3.6	---	---	23.3	1.5	15.3
Naalehu CDP -----	353	5.4	35.7	4.8	16.4	---	---	100.0	37.1	---
Pahala CDP -----	491	16.3	18.3	10.0	11.4	10.0	---	100.0	25.1	---
Volcano CDP (pt.) -----	33	90.9	9.1	18.2	30.3	---	---	---	---	---
Keaua-Mountain View division -----	5 849	54.3	7.6	24.6	6.7	---	11.4	25.7	2.3	9.5
Hawaiian Paradise Park CDP -----	1 309	58.7	2.1	16.0	5.0	---	5.4	3.5	---	6.6
Keaua CDP -----	561	35.1	25.3	9.8	12.1	---	6.6	98.2	20.0	3.4
Kurtistown CDP -----	331	25.4	12.1	10.3	8.8	---	---	93.4	---	---
Mountain View CDP (pt.) -----	1 407	57.7	9.8	37.7	4.3	---	18.1	33.1	.7	14.0
Volcano CDP (pt.) -----	764	56.8	10.7	21.5	5.9	---	5.2	---	---	6.8
North Hilo division -----	514	15.8	36.8	9.3	14.4	---	---	88.3	29.0	---
Laupahoehoe CDP -----	156	9.6	23.7	14.7	16.7	---	---	96.2	3.2	---
North Kohala division -----	1 551	30.4	27.2	15.5	15.0	---	4.3	95.6	6.2	6.3
Halaula CDP -----	132	21.2	22.0	6.1	12.9	---	---	100.0	5.3	---
Hawi CDP -----	331	17.2	33.2	17.8	20.5	---	3.6	98.2	12.7	10.6
Kapaau CDP -----	393	22.9	39.4	16.8	15.5	---	---	100.0	4.1	1.3
North Kona division -----	9 945	42.9	3.7	20.9	9.3	22.9	1.2	97.8	45.0	1.7
Holualoa CDP -----	2 048	40.5	5.6	20.9	6.3	16.3	1.4	98.6	41.7	3.5
Honalo CDP -----	760	43.6	18.7	14.6	8.8	21.7	2.0	92.6	37.9	3.0
Kahaluu-Keauhou CDP -----	1 522	33.4	.9	11.6	10.4	45.9	.4	99.3	63.9	.6
Kailua CDP -----	3 617	42.7	1.8	32.5	6.9	29.8	.9	98.8	59.0	.9
Kalaoa CDP -----	1 685	58.1	.4	8.3	15.3	---	1.5	97.9	8.8	1.8
Kealahou CDP (pt.) -----	47	---	---	---	23.4	---	---	100.0	78.7	---
Paauhau-Paauilo division -----	691	21.3	37.9	13.7	15.1	---	2.0	91.3	26.5	---
Honokaa CDP (pt.) -----	---	---	---	---	---	---	---	---	---	---
Paauilo CDP -----	200	4.0	77.0	4.0	4.0	---	---	96.0	91.5	---
Pahoehoe-Kalapana division -----	2 743	45.1	4.1	16.9	7.0	.5	6.6	62.6	6.5	3.7
Hawaiian Beaches CDP -----	988	30.3	---	8.4	5.4	---	3.0	92.5	2.4	2.3
Pahoehoe CDP -----	369	16.8	19.2	18.7	11.1	---	12.7	98.6	30.1	12.7
Papaikou-Wailea division -----	1 782	12.1	23.5	15.5	14.3	---	1.1	98.7	56.2	.6
Honoum CDP -----	188	17.6	50.0	8.5	20.2	---	---	100.0	10.6	---
Papaikou CDP -----	582	12.5	32.0	12.4	14.9	---	3.3	98.1	50.2	1.9
Paukaa CDP -----	207	2.4	29.0	3.4	26.6	---	---	100.0	45.4	---
Pepeekeo CDP -----	592	14.4	6.9	22.3	7.8	---	---	100.0	99.3	---
South Kohala division -----	4 199	59.2	5.9	12.7	11.0	9.7	.6	100.0	32.6	1.5
Puako CDP -----	559	67.6	1.3	26.1	3.4	10.0	---	100.0	70.5	3.2
Waikoloa Village CDP -----	1 314	81.1	---	15.8	6.7	21.8	---	100.0	54.2	---
Waimea CDP -----	2 115	45.8	11.3	7.7	14.9	2.4	.9	100.0	10.0	2.2
South Kona division -----	2 996	35.4	15.9	23.0	7.5	1.4	11.8	75.3	6.1	5.6
Captain Cook CDP -----	975	27.1	16.9	11.9	12.7	4.4	9.6	77.7	6.3	3.5
Honaunau-Napoopoo CDP -----	967	32.5	18.1	24.2	4.4	---	14.9	89.1	.4	5.8
Kealahou CDP (pt.) -----	519	34.3	13.7	32.2	3.3	---	8.1	93.3	22.5	2.1
Honolulu County -----	281 683	15.9	5.8	27.4	14.7	23.5	.6	99.8	93.6	1.3
Ewa division -----	66 393	27.6	2.5	12.3	17.7	17.9	.3	99.7	96.6	.5
Aiea CDP -----	2 678	8.7	9.8	5.6	27.7	4.9	.3	100.0	94.8	---
Barbers Point Housing CDP -----	947	2.3	10.0	7.6	7.9	2.9	---	100.0	100.0	---
Ewa Beach CDP -----	3 412	7.4	2.9	7.6	15.8	5.3	.6	99.8	63.9	.9
Ewa Gentry CDP -----	766	100.0	---	20.6	2.0	37.3	---	100.0	100.0	---
Ewa Villages CDP -----	939	47.9	---	17.1	9.2	---	---	99.3	86.6	1.6
Halaula CDP -----	4 094	24.3	.9	17.9	19.3	16.7	---	100.0	99.2	.8
Hickam Housing CDP -----	1 841	2.2	22.7	1.4	35.2	1.4	.3	99.6	99.6	---
Iroquois Point CDP -----	1 180	.3	1.8	1.7	15.1	1.2	---	100.0	99.4	.5
Makakilo City CDP -----	3 050	29.2	.4	4.4	19.0	26.9	.2	99.7	98.3	.5
Mililani Town CDP -----	8 900	33.6	.1	7.1	24.7	17.5	.1	99.8	99.8	.2
Pearl City CDP -----	8 999	12.6	.9	10.3	19.5	4.9	.3	99.9	98.8	.9
Village Park CDP -----	2 176	85.7	---	6.9	10.3	5.0	---	100.0	99.5	---
Waimalu CDP -----	10 613	31.4	.4	18.9	12.9	45.9	.2	99.8	99.6	.3
Waipahu CDP -----	7 739	16.3	2.1	16.0	17.1	8.1	.5	100.0	98.4	.3
Waipio CDP -----	4 087	77.1	---	18.2	6.7	29.5	.4	100.0	99.2	.2
Waipio Acres CDP -----	1 836	19.6	---	22.6	9.6	41.7	---	100.0	99.4	.3
Honolulu division -----	149 066	10.9	7.5	38.9	11.9	31.0	.8	99.8	98.4	1.7
Aliamanu CDP -----	2 353	15.0	---	1.6	45.1	7.3	---	100.0	98.8	---
Fort Shafter CDP -----	917	---	15.7	5.1	7.0	---	---	100.0	99.1	---
Honolulu CDP -----	145 796	10.9	7.6	39.7	11.4	31.6	.8	99.8	98.4	1.7
Koolauloa division -----	5 982	24.1	7.2	28.3	11.1	13.0	1.5	98.6	39.2	2.4
Hauula CDP -----	973	17.5	9.5	13.7	11.4	---	3.0	100.0	11.4	.5
Kaaawa CDP -----	504	12.5	5.6	26.4	7.9	21.2	.8	99.0	23.0	---
Kahuku CDP -----	607	58.8	20.4	29.8	1.2	---	1.5	100.0	78.9	---
Kawela Bay CDP -----	435	4.8	3.4	66.4	2.1	88.3	---	100.0	87.8	1.8
Laie CDP -----	1 122	18.7	1.7	26.6	20.1	1.5	1.9	99.6	54.5	.5
Punahoa CDP -----	462	21.2	2.2	61.0	---	58.0	---	95.9	63.0	11.3
Pupukea CDP -----	1 450	26.2	5.2	15.9	14.8	---	.8	99.7	15.0	3.8
Koolaupoko division -----	34 731	15.1	2.5	10.9	22.5	12.4	.3	99.9	88.9	1.2
Ahuimanu CDP -----	2 537	27.7	.8	6.8	23.1	27.0	.4	100.0	79.8	1.0
Heeia CDP -----	1 557	7.3	.9	3.5	34.9	7.5	---	100.0	84.5	---
Kahaluu CDP -----	960	11.5	2.2	17.9	12.2	---	---	99.6	20.2	1.1
Kailua CDP -----	12 225	12.5	3.0	12.2	25.8	11.7	.1	100.0	98.0	1.5
Kaneohe CDP -----	10 849	19.6	1.8	11.1	16.4	18.6	.2	100.0	97.6	1.2
Kaneohe Station CDP -----	2 030	8.0	1.5	2.1	19.2	---	.4	100.0	99.0	---
Maunawili CDP -----	1 443	2.9	.3	3.0	39.2	---	1.2	100.0	93.4	1.2
Waikane CDP -----	176	20.5	20.5	23.9	21.0	---	5.1	96.6	10.2	---
Waimanalo CDP -----	832	12.0	2.0	21.5	24.2	8.8	---	100.0	97.1	1.0
Waimanalo Beach CDP -----	965	3.6	8.4	20.7	24.7	---	1.2	100.0	42.3	.9
Wahiawa division -----	11 061	11.6	11.7	15.7	16.0	5.3	.6	100.0	97.5	.8
Schofield Barracks CDP -----	3 556	5.9	13.9	4.0	18.3	3.7	.6	100.0	97.3	.6
Wahiawa CDP -----	5 765	12.8	9.9	23.2	14.5	6.0	.7	100.0	98.6	1.0
Wheeler AFB CDP -----	704	3.8	16.6	4.8	25.9	3.3	---	100.0	93.2	---
Whitmore Village CDP -----	839	35.6	9.2	24.1	12.2	10.5	---	100.0	100.0	.8
Waialua division -----	3 770	21.5	8.8	22.7	12.3	4.2	2.0	98.6	33.0	2.3
Haleiwa CDP -----	838	11.8	9.2	36.3	9.5	3.5	3.6	100.0	32.3	---
Mokuleia CDP -----	745	39.6	4.8	27.0	7.1	17.3	---	96.6	54.2	---
Waialua CDP -----	1 258	11.1	12.8	13.8	13.5	---	3.5	99.3	14.1	4.2

SUMMARY SOCIAL, ECONOMIC, AND HOUSING CHARACTERISTICS

Table 11. Structural, Plumbing, and Equipment Characteristics: 1990—Con.

[Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text]

State County County Subdivision Place	All housing units	Percent								
		Year structure built		Bedrooms		Condominium	Lacking complete plumbing facilities	With public water system or private company	With public sewer	Lacking complete kitchen facilities
		1980 to March 1990	1939 or earlier	None or 1	4 or more					
Honolulu County—Con.										
Waianae division	10 680	13.5	5.0	27.5	12.6	21.2	1.2	99.7	69.5	.9
Mali CDP	1 490	10.6	4.4	25.8	13.2	7.2	1.7	99.7	91.7	—
Makaha CDP	3 127	15.8	2.6	51.1	8.1	39.6	.9	100.0	77.4	.7
Makaha Valley CDP	655	9.0	—	24.6	—	75.4	—	97.4	100.0	—
Nanakuli CDP	2 128	14.5	7.6	8.7	18.1	11.9	1.1	100.0	52.7	.8
Waianae CDP	2 264	14.4	4.1	21.5	15.4	7.6	1.3	100.0	73.6	1.1
Kalawao County	101	—	76.2	82.2	—	—	—	100.0	—	5.9
Kalawao division	101	—	76.2	82.2	—	—	—	100.0	—	5.9
Kauai County	17 613	32.3	10.2	15.7	10.2	5.1	1.3	97.3	30.9	1.8
Eleele-Kalaheo division	2 177	35.7	12.2	15.5	8.5	2.3	.4	96.6	24.7	—
Eleele CDP (pt.)	434	59.4	.9	12.9	10.6	—	—	96.5	97.5	—
Hanapepe CDP (pt.)	—	—	—	—	—	—	—	—	—	—
Kalaheo CDP	1 199	32.9	14.5	18.1	9.3	4.1	—	99.4	6.6	—
Lawai CDP (pt.)	346	20.8	6.9	13.0	4.6	—	—	100.0	7.5	—
Omao CDP (pt.)	—	—	—	—	—	—	—	—	—	—
Hanalei division	1 866	44.7	6.9	17.4	10.4	12.6	2.8	98.1	32.6	2.0
Hanalei CDP	202	24.3	16.3	10.9	13.9	—	—	92.6	7.4	—
Kalihiwai CDP	224	31.7	11.2	41.5	3.1	16.5	11.2	100.0	17.9	5.8
Kilauea CDP	503	39.6	5.0	18.5	8.9	—	1.4	100.0	4.0	4.2
Princeville CDP	648	66.0	.9	3.7	13.1	30.7	.6	99.4	81.3	.6
Kapaa division	2 261	34.6	11.0	16.9	7.2	3.4	1.4	99.4	10.1	2.6
Kapaa CDP (pt.)	2 261	34.6	11.0	16.9	7.2	3.4	1.4	99.4	10.1	2.6
Kaumakani-Hanapepe division	961	15.1	11.7	15.0	15.1	—	.9	92.6	23.7	1.9
Eleele CDP (pt.)	—	—	—	—	—	—	—	—	—	—
Hanapepe CDP (pt.)	484	18.6	12.6	19.4	7.0	—	1.9	100.0	7.2	3.7
Kaumakani CDP	240	7.9	2.5	12.9	6.3	—	—	89.6	75.4	—
Pakala Village CDP	200	15.5	19.5	7.0	48.0	—	—	77.0	6.0	—
Kekaha-Waimea division	1 942	22.6	21.3	14.5	11.9	—	2.4	96.1	34.6	1.2
Kekaha CDP	1 106	21.7	15.9	18.9	10.2	—	2.4	99.1	13.9	1.4
Waimea CDP	623	27.1	32.3	7.9	16.7	—	.6	100.0	72.2	—
Koloa-Poipu division	1 800	27.8	12.4	13.0	11.3	7.0	—	98.5	22.9	.7
Koloa CDP	545	22.6	23.1	16.0	10.6	2.2	—	96.5	20.2	.7
Lawai CDP (pt.)	296	29.1	22.0	12.2	14.5	—	—	100.0	4.1	3.0
Omao CDP (pt.)	376	31.1	—	14.9	17.0	—	—	100.0	4.5	—
Poipu CDP	532	30.8	3.9	10.3	5.8	21.4	—	100.0	49.4	—
Lihue division	2 145	30.6	7.6	18.0	9.0	18.3	.3	99.5	75.5	1.6
Lihue CDP (pt.)	2 145	30.6	7.6	18.0	9.0	18.3	.3	99.5	75.5	1.6
Niihau division	37	—	54.1	8.1	—	—	100.0	—	—	100.0
Puhi-Hanamaulu division	1 417	24.1	7.3	14.4	11.2	—	.6	97.6	66.9	3.1
Hanamaulu CDP	900	15.7	2.9	10.1	11.4	—	1.0	98.2	92.2	2.1
Lihue CDP (pt.)	82	100.0	—	—	28.0	—	—	100.0	19.5	—
Puhi CDP	302	30.1	5.0	16.9	8.9	—	—	100.0	21.2	—
Wailua-Anahola division	3 007	40.1	4.0	15.5	10.6	.7	.8	96.9	6.3	1.6
Anahola CDP	331	26.3	6.3	16.6	12.7	—	5.1	91.2	5.7	6.9
Kapaa CDP (pt.)	475	51.4	7.8	27.2	13.1	—	.6	100.0	13.9	.8
Wailua CDP	741	24.8	2.2	11.3	9.0	2.7	—	98.8	9.3	.8
Wailua Homesteads CDP	1 299	48.2	1.5	13.4	11.3	—	—	99.2	2.7	1.2
Maui County	42 160	32.5	6.5	29.2	9.2	23.8	1.2	98.0	72.2	1.4
East Molokai division	1 768	31.8	3.8	33.3	5.8	13.5	1.4	96.4	46.2	.7
Kaunakakai CDP	990	37.0	.7	30.1	5.3	10.8	—	100.0	66.2	—
Haiku-Pauwela division	2 075	44.3	9.1	25.3	8.4	—	6.2	86.8	7.3	2.7
Haiku-Pauwela CDP	1 654	40.8	10.8	19.4	9.7	—	4.7	94.3	6.7	1.9
Hana division	763	27.3	11.4	30.1	8.5	—	10.7	70.6	2.5	10.4
Hana CDP	212	17.0	10.8	18.9	3.8	—	—	100.0	—	1.9
Kahului division	5 092	21.7	.6	20.1	9.5	7.1	.3	99.9	99.1	.9
Kahului CDP (pt.)	5 092	21.7	.6	20.1	9.5	7.1	.3	99.9	99.1	.9
Kihei division	7 902	40.9	.4	40.2	5.4	51.3	—	99.9	97.8	.7
Kihei CDP	6 395	42.4	.5	39.2	5.6	46.9	—	99.8	97.8	.9
Maalaea CDP	129	12.9	—	59.9	1.3	91.3	—	100.0	97.3	—
Wailea-Makena CDP (pt.)	869	50.9	—	32.9	7.0	55.6	—	100.0	97.9	—
Kula division	4 396	43.8	4.8	22.1	10.7	23.5	1.2	99.5	36.6	.1
Wailea-Makena CDP (pt.)	2 201	52.1	—	28.4	9.0	46.5	.3	99.7	63.6	.2
Lahaina division	7 719	24.6	4.1	44.5	7.6	46.9	1.2	99.1	92.5	1.3
Kaanapali CDP	673	26.6	—	42.8	6.2	72.8	—	100.0	98.8	—
Kapalua CDP	934	9.9	—	64.6	.9	96.8	—	100.0	90.5	1.0
Lahaina CDP	2 982	18.7	9.8	28.6	14.8	15.8	3.1	98.5	88.7	2.9
Napili-Honokowai CDP	3 097	34.2	.5	54.6	2.8	56.7	—	99.8	96.4	.3
Lanai division	956	28.8	39.4	9.1	11.0	—	2.0	100.0	91.0	.5
Lanai City CDP	922	29.8	37.9	6.3	11.4	—	2.1	100.0	94.4	—
Makawao-Paia division	5 105	40.2	8.0	12.7	12.3	.5	.3	99.5	38.5	.3
Haliimaile CDP	236	6.8	28.8	9.3	28.8	—	—	100.0	90.7	—
Makawao CDP	1 780	50.8	10.5	10.4	9.5	—	.3	99.4	15.6	.2
Paia CDP	765	29.9	13.2	15.3	7.1	3.5	1.2	100.0	94.4	—
Pukalani CDP	1 898	39.6	1.4	9.4	14.5	—	—	99.6	38.2	—
Puunene division	44	—	81.8	56.8	—	—	—	100.0	56.8	—
Kahului CDP (pt.)	44	—	81.8	56.8	—	—	—	100.0	56.8	—
Spreckelsville division	116	13.8	15.5	14.7	37.9	7.8	—	100.0	81.9	—
Kahului CDP (pt.)	—	—	—	—	—	—	—	—	—	—
Waihee-Waikapu division	725	42.3	12.1	12.7	20.6	—	5.5	89.7	31.3	6.9
Waihee-Waiehue CDP (pt.)	299	34.1	15.4	19.7	13.7	—	—	93.6	25.1	4.7
Waikapu CDP	226	19.0	15.5	4.0	13.3	—	8.0	100.0	9.3	4.0
Wailuku CDP (pt.)	121	95.0	—	—	48.8	—	—	100.0	100.0	8.3
Wailuku division	4 493	23.8	14.9	25.1	13.4	8.5	.8	100.0	92.9	.8
Waihee-Waiehue CDP (pt.)	777	56.5	5.4	7.2	11.7	2.1	—	100.0	95.5	—
Wailuku CDP (pt.)	3 716	17.0	16.9	28.8	13.7	9.9	1.0	100.0	92.4	.9
West Molokai division	1 006	13.4	19.6	35.8	5.3	30.4	1.0	93.7	55.3	15.0
Kualapuu CDP	539	22.8	12.4	21.9	7.6	—	1.9	100.0	35.4	3.7
Maunaloa CDP	136	—	95.6	4.4	4.4	—	—	100.0	90.4	7.4

Table 12. Structural, Plumbing, and Equipment Characteristics: 1990

[Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text]

State County Place and [In Selected States] County Subdivision	All housing units	Percent								
		Year structure built		Bedrooms		Condominium	Lacking complete plumbing facilities	With public water system or private company	With public sewer	Lacking complete kitchen facilities
		1980 to March 1990	1939 or earlier	None or 1	4 or more					
The State	389 810	20.8	6.7	26.1	13.4	20.8	1.1	97.6	80.2	1.6
COUNTY										
Hawaii County	48 253	35.1	10.8	19.5	10.5	8.1	3.6	84.6	27.8	3.4
Honolulu County	281 683	15.9	5.8	27.4	14.7	23.5	.6	99.8	93.6	1.3
Kalawao County	101	—	76.2	82.2	—	—	—	100.0	—	5.9
Kauai County	17 613	32.3	10.2	15.7	10.2	5.1	1.3	97.3	30.9	1.8
Maui County	42 160	32.5	6.5	29.2	9.2	23.8	1.2	98.0	72.2	1.4
PLACE AND COUNTY SUBDIVISION										
Ahuimanu CDP, Honolulu County	2 537	27.7	.8	6.8	23.1	27.0	.4	100.0	79.8	1.0
Aiea CDP, Honolulu County	2 678	8.7	9.6	5.6	27.7	4.9	.3	100.0	94.8	.5
Aliamanu CDP, Honolulu County	2 353	15.0	—	1.6	45.1	7.3	—	100.0	98.8	—
Anahola CDP, Kauai County	331	26.3	6.3	16.6	12.7	—	5.1	91.2	5.7	6.9
Barbers Point Housing CDP, Honolulu County	947	2.3	10.0	7.6	7.9	2.9	—	100.0	100.0	—
Captain Cook CDP, Hawaii County	975	27.1	16.9	11.9	12.7	4.4	9.6	77.7	6.3	3.5
Eleele CDP, Kauai County	434	59.4	.9	12.9	10.6	—	—	96.5	97.5	—
Ewa Beach CDP, Honolulu County	3 412	7.4	2.9	7.6	15.8	5.3	.6	99.8	63.9	.9
Ewa Gentry CDP, Honolulu County	766	100.0	—	20.6	2.0	37.3	—	100.0	100.0	—
Ewa Villages CDP, Honolulu County	939	47.9	18.6	17.1	9.2	—	—	99.3	86.6	1.6
Fort Shafter CDP, Honolulu County	917	—	15.7	5.1	7.0	—	—	100.0	99.1	—
Haiku-Pauwela CDP, Maui County	1 654	40.8	10.8	19.4	9.7	—	4.7	94.3	6.7	1.9
Halaiala CDP, Hawaii County	132	21.2	22.0	6.1	12.9	—	—	100.0	5.3	—
Halawa CDP, Honolulu County	4 094	24.3	.9	17.9	19.3	16.7	—	100.0	99.2	.8
Haleiwa CDP, Honolulu County	838	11.8	9.2	36.3	9.5	3.5	3.6	100.0	32.3	—
Haliimaile CDP, Maui County	236	6.8	28.8	9.3	28.8	—	—	100.0	90.7	—
Hana CDP, Maui County	212	17.0	10.8	18.9	3.8	—	—	100.0	—	1.9
Hanalei CDP, Kauai County	202	24.3	16.3	10.9	13.9	—	—	92.6	7.4	—
Hanamaulu CDP, Kauai County	900	15.7	2.9	10.1	11.4	—	1.0	98.2	92.2	2.1
Hanapepe CDP, Kauai County	484	18.6	12.6	19.4	7.0	—	1.9	100.0	7.2	3.7
Haulua CDP, Honolulu County	973	17.5	9.5	13.7	11.4	—	3.0	100.0	11.4	.5
Hawaiian Beaches CDP, Hawaii County	988	30.3	—	8.4	5.4	—	3.0	92.5	2.4	2.3
Hawaiian Ocean View CDP, Hawaii County	619	74.5	3.4	37.8	3.6	—	23.3	1.5	—	15.3
Hawaiian Paradise Park CDP, Hawaii County	1 309	58.7	2.1	16.0	5.0	—	5.4	3.5	—	6.6
Hawi CDP, Hawaii County	331	17.2	33.2	17.8	20.5	—	3.6	98.2	12.7	10.6
Heeia CDP, Honolulu County	1 557	7.3	.9	3.5	34.9	7.5	—	100.0	84.5	—
Hickam Housing CDP, Honolulu County	1 841	2.2	22.7	1.4	35.2	1.4	.3	99.6	99.6	—
Hilo CDP, Hawaii County	14 135	17.6	9.9	20.3	12.5	7.9	.4	99.2	37.3	1.8
Holualoa CDP, Hawaii County	2 048	40.5	5.6	20.9	6.3	16.3	1.4	98.6	41.7	3.5
Honalo CDP, Hawaii County	760	43.6	18.7	14.6	8.8	21.7	2.0	92.6	37.9	3.0
Honaunau-Napoopoo CDP, Hawaii County	967	32.5	18.1	24.2	4.4	—	14.9	89.1	.4	5.8
Honokaa CDP, Hawaii County	830	25.4	23.9	15.4	7.8	2.3	.5	100.0	6.0	1.9
Honolulu CDP, Honolulu County	145 796	10.9	7.6	39.7	11.4	31.6	.8	99.8	98.4	1.7
Honoumuli CDP, Hawaii County	188	17.6	50.0	8.5	20.2	—	—	100.0	10.6	—
Iroquois Point CDP, Honolulu County	1 180	.3	1.8	1.7	15.1	1.2	—	100.0	99.4	.5
Kaaawa CDP, Honolulu County	504	12.5	5.6	26.4	7.9	21.2	.8	99.0	23.0	—
Kaanapali CDP, Maui County	673	26.6	—	42.8	6.2	72.8	—	100.0	98.8	—
Kahaluu CDP, Honolulu County	960	11.5	2.2	17.9	12.2	—	—	99.6	20.2	1.1
Kahaluu-Keahou CDP, Hawaii County	1 522	33.4	.9	11.6	10.4	45.9	.4	99.3	63.9	.6
Kahuku CDP, Honolulu County	607	58.8	20.4	29.8	1.2	—	1.5	100.0	78.9	—
Kahului CDP, Maui County	5 136	21.5	1.3	20.5	9.4	7.1	.3	99.9	98.8	.9
Kailua CDP, Hawaii County	3 617	42.7	1.8	32.5	6.9	29.8	.9	98.8	59.0	.9
Kailua CDP, Honolulu County	12 225	12.5	3.0	12.2	25.8	11.7	.1	100.0	98.0	1.5
Kalaheo CDP, Kauai County	1 199	32.9	14.5	18.1	9.3	4.1	—	99.4	6.6	—
Kalaoa CDP, Hawaii County	1 685	58.1	.4	8.3	15.3	—	1.5	97.9	8.8	1.8
Kalihiwai CDP, Kauai County	224	31.7	11.2	41.5	3.1	16.5	11.2	100.0	17.9	5.8
Kaneohe CDP, Honolulu County	10 849	19.6	1.8	11.1	16.4	18.6	.2	100.0	97.6	1.2
Kaneohe Station CDP, Honolulu County	2 030	8.0	1.5	2.1	19.2	—	.4	100.0	99.0	—
Kapaa CDP, Kauai County	2 736	37.5	10.4	18.6	8.2	2.8	1.2	99.5	10.7	2.3
Kapaa CDP, Hawaii County	393	22.9	39.4	16.8	15.5	—	—	100.0	4.1	1.3
Kapalua CDP, Maui County	934	9.9	—	64.6	.9	96.8	—	100.0	90.5	1.0
Kaunakakai CDP, Kauai County	240	7.9	2.5	12.9	6.3	—	—	99.6	75.4	—
Kaunakakai CDP, Maui County	990	37.0	.7	30.1	5.3	10.8	—	100.0	66.2	—
Kawela Bay CDP, Honolulu County	435	4.8	3.4	66.4	2.1	88.3	—	100.0	87.8	1.8
Keaau CDP, Hawaii County	561	35.1	25.3	9.8	12.1	—	6.6	98.2	20.0	3.4
Kealahou CDP, Hawaii County	566	31.4	12.5	29.5	4.9	—	7.4	93.8	27.2	1.9
Kekaha CDP, Kauai County	1 106	21.7	15.9	18.9	10.2	—	2.4	99.1	13.9	1.4
Kihei CDP, Maui County	6 395	42.4	.5	39.2	5.6	46.9	—	99.8	97.8	.9
Kilauea CDP, Kauai County	503	39.6	5.0	18.5	8.9	—	1.4	100.0	4.0	4.2
Koloa CDP, Kauai County	545	22.6	23.1	16.0	10.6	2.2	—	96.5	20.2	.7
Kualapuu CDP, Maui County	539	22.8	12.4	21.9	7.6	—	1.9	100.0	35.4	3.7
Kukuihaele CDP, Hawaii County	82	—	87.8	13.4	19.5	—	13.4	100.0	4.9	13.4
Kurtistown CDP, Hawaii County	331	25.4	12.1	10.3	8.8	—	1.8	93.4	—	—
Lahaina CDP, Maui County	2 982	18.7	9.8	28.6	14.8	15.8	3.1	98.5	88.7	2.9
Laie CDP, Honolulu County	1 122	18.7	1.7	26.6	20.1	1.5	1.9	99.6	54.5	.5
Lanai City CDP, Maui County	922	29.8	37.9	6.3	11.4	—	2.1	100.0	94.4	—
Laupahoehoe CDP, Hawaii County	156	9.6	—	14.7	16.7	—	—	96.2	3.2	—
Lawai CDP, Kauai County	642	24.6	13.9	12.6	9.2	—	—	100.0	5.9	1.4
Lihue CDP, Kauai County	2 227	33.1	7.3	17.3	9.7	17.6	.3	99.6	73.5	1.6
Maalaea CDP, Maui County	629	12.9	—	59.9	1.3	91.3	—	100.0	97.3	—
Maui CDP, Honolulu County	1 490	10.6	4.4	25.8	13.2	7.2	1.7	99.7	91.7	—
Makaha CDP, Honolulu County	3 127	15.8	2.6	51.1	8.1	39.6	.9	100.0	77.4	.7
Makaha Valley CDP, Honolulu County	655	9.0	—	24.6	—	75.4	—	97.4	100.0	—
Makakilo City CDP, Honolulu County	3 050	29.2	.4	4.4	19.0	26.9	.2	99.7	98.3	.5
Makawao CDP, Maui County	1 780	50.8	10.5	10.4	9.5	—	.3	99.4	15.6	.2
Maunaloa CDP, Maui County	136	—	95.6	4.4	4.4	—	—	100.0	90.4	7.4
Maunawili CDP, Honolulu County	1 443	2.9	.3	3.0	39.2	—	1.2	100.0	93.4	1.2
Milliani Town CDP, Honolulu County	8 900	33.6	.1	7.1	24.7	17.5	.1	99.8	99.8	.2
Mokuleia CDP, Honolulu County	745	39.6	4.8	27.0	7.1	17.3	—	96.6	54.2	—
Mountain View CDP, Hawaii County	1 407	57.7	9.8	37.7	4.3	—	18.1	33.1	.7	14.0

Table 12. Structural, Plumbing, and Equipment Characteristics: 1990—Con.

[Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text]

State County Place and [In Selected States] County Subdivision	All housing units	Percent								
		Year structure built		Bedrooms		Condominium	Lacking complete plumbing facilities	With public water system or private company	With public sewer	Lacking complete kitchen facilities
		1980 to March 1990	1939 or earlier	None or 1	4 or more					
PLACE AND COUNTY SUBDIVISION—										
Con.										
Naalehu CDP, Hawaii County	353	5.4	35.7	4.8	16.4	—	—	100.0	37.1	—
Nanakuli CDP, Honolulu County.....	2 128	14.5	7.6	8.7	18.1	11.9	1.1	100.0	52.7	.8
Napili-Honokowai CDP, Maui County.....	3 097	34.2	.5	54.6	2.8	56.7	—	99.8	96.4	.3
Omao CDP, Kauai County.....	376	31.1	—	14.9	17.0	—	—	100.0	4.5	—
Paaui CDP, Hawaii County	200	4.0	77.0	4.0	4.0	—	—	96.0	91.5	—
Pahala CDP, Hawaii County	491	16.3	18.3	10.0	11.4	10.0	—	100.0	25.1	—
Pahoia CDP, Hawaii County	369	16.8	19.2	18.7	11.1	—	12.7	98.6	30.1	12.7
Paia CDP, Maui County	765	29.9	13.2	15.3	7.1	3.5	1.2	100.0	94.4	—
Pakala Village CDP, Kauai County.....	200	15.5	19.5	7.0	48.0	—	—	77.0	6.0	—
Papaikou CDP, Hawaii County.....	582	12.5	32.0	12.4	14.9	—	3.3	98.1	50.2	1.9
Paukaa CDP, Hawaii County	207	2.4	29.0	3.4	26.6	—	—	100.0	45.4	—
Pearl City CDP, Honolulu County.....	8 999	12.6	.9	10.3	19.5	4.9	.3	99.9	98.8	.9
Pepeekeo CDP, Hawaii County	592	14.4	6.9	22.3	7.8	—	—	100.0	99.3	—
Poipu CDP, Kauai County	532	30.8	3.9	10.3	5.8	21.4	—	100.0	49.4	—
Princeville CDP, Kauai County	648	66.0	.9	3.7	13.1	30.7	.6	99.4	81.3	.6
Puako CDP, Hawaii County	559	67.6	1.3	26.1	3.4	10.0	—	100.0	70.5	3.2
Puhi CDP, Kauai County	302	30.1	5.0	16.9	8.9	—	—	100.0	21.2	—
Pukalani CDP, Maui County	1 898	39.6	1.4	9.4	14.5	—	—	99.6	38.2	—
Punaluu CDP, Honolulu County.....	462	21.2	2.2	61.0	—	58.0	—	95.9	63.0	11.3
Pupukea CDP, Honolulu County.....	1 450	26.2	5.2	15.9	14.8	—	.8	99.7	15.0	3.8
Schofield Barracks CDP, Honolulu County ---	3 556	5.9	13.9	4.0	18.3	3.7	.6	100.0	97.3	.6
Village Park CDP, Honolulu County.....	2 176	85.7	—	6.9	10.3	5.0	—	100.0	99.5	.6
Volcano CDP, Hawaii County	797	58.2	10.7	21.3	6.9	—	5.0	—	—	6.5
Wahiawa CDP, Honolulu County.....	5 765	12.8	9.9	23.2	14.5	6.0	.7	100.0	98.6	1.0
Waialua CDP, Honolulu County.....	1 258	11.1	12.8	13.8	13.5	—	3.5	99.3	14.1	4.2
Waianae CDP, Honolulu County.....	2 264	14.4	4.1	21.5	15.4	7.6	1.3	100.0	73.6	1.1
Waihee-Waiehu CDP, Maui County	1 076	50.3	8.2	10.7	12.3	1.5	—	98.2	75.9	1.3
Waikane CDP, Honolulu County.....	176	20.5	20.5	23.9	21.0	—	5.1	96.6	10.2	—
Waikapu CDP, Maui County	226	19.0	15.5	4.0	13.3	—	8.0	100.0	9.3	4.0
Waikoloa Village CDP, Hawaii County.....	1 314	81.1	—	15.8	6.7	21.8	—	100.0	54.2	—
Wailea-Makena CDP, Maui County	3 070	51.7	—	29.7	8.5	49.1	.2	99.8	73.3	.2
Wailua CDP, Kauai County	741	24.8	2.2	11.3	9.0	2.7	—	98.8	9.3	.8
Wailua Homesteads CDP, Kauai County ---	1 299	48.2	1.5	13.4	11.3	—	—	99.2	2.7	1.2
Wailuku CDP, Maui County	3 837	19.4	16.3	27.9	14.8	9.6	1.0	100.0	92.6	1.1
Waimalu CDP, Honolulu County.....	10 613	31.4	.4	18.9	12.9	45.9	.2	99.8	99.6	.3
Waimanalo CDP, Honolulu County.....	832	12.0	2.0	21.5	24.2	8.8	—	100.0	97.1	1.0
Waimanalo Beach CDP, Honolulu County....	965	3.6	8.4	20.7	24.7	—	1.2	100.0	42.3	.9
Waimea CDP, Hawaii County	2 115	45.8	11.3	7.7	14.9	2.4	.9	100.0	10.0	2.2
Waimea CDP, Kauai County	623	27.1	32.3	7.9	16.7	—	.6	100.0	72.2	—
Wainaku CDP, Hawaii County	416	13.0	31.5	5.3	15.6	—	1.2	100.0	3.4	—
Waipahu CDP, Honolulu County.....	7 739	16.3	2.1	16.0	17.1	8.1	.5	100.0	98.4	.3
Waipio CDP, Honolulu County.....	4 087	77.1	—	18.2	6.7	29.5	.4	100.0	99.2	.2
Waipio Acres CDP, Honolulu County.....	1 836	19.6	—	22.6	9.6	41.7	—	100.0	99.4	.3
Wheeler AFB CDP, Honolulu County.....	704	3.8	16.6	4.8	25.9	3.3	—	100.0	93.2	—
Whitmore Village CDP, Honolulu County.....	839	35.6	9.2	24.1	12.2	10.5	—	100.0	100.0	.8

Table 13. Fuels and Equipment Characteristics: 1990

[Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text]

State County County Subdivision Place	All occupied housing units	Percent with—								
		House heating fuel					Vehicles available			No telephone in unit
		Utility gas	Bottled, tank, or LP gas	Electricity	Fuel oil, kero- sene, etc.	Other or none	None	1	2 or more	
The State -----	356 267	3.3	2.0	37.9	.2	56.6	9.9	36.1	54.1	2.6
Hawaii County -----	41 461	1.5	5.3	24.5	.7	68.1	7.5	35.4	57.1	5.5
Hilo division -----	13 873	3.4	3.7	36.7	.5	55.7	10.3	35.8	53.9	4.1
Hilo CDP -----	13 327	3.5	3.8	37.2	.5	55.1	10.2	36.2	53.5	4.0
Mountain View CDP (pt.) -----	—	—	—	—	—	—	—	—	—	—
Wainaku CDP -----	402	2.0	—	36.6	—	61.4	11.2	27.9	60.9	4.7
Honokaa-Kukuihaele division -----	1 239	—	6.1	13.2	.6	80.1	10.3	25.5	64.2	4.6
Honokaa CDP (pt.) -----	791	—	3.8	17.1	—	79.1	13.1	26.0	60.8	2.4
Kukuihaele CDP -----	65	—	—	6.2	—	93.8	26.2	6.2	67.7	—
Kau division -----	1 536	.5	8.0	7.2	1.8	82.5	8.3	35.4	56.3	11.0
Hawaiian Ocean View CDP -----	414	—	8.9	5.3	2.9	82.9	2.9	49.5	47.6	21.3
Naalehu CDP -----	335	—	21.5	20.9	—	57.6	8.1	27.8	64.2	6.9
Pahala CDP -----	458	—	—	2.6	—	97.4	14.6	34.7	50.7	3.7
Volcano CDP (pt.) -----	23	—	—	—	—	100.0	—	34.8	65.2	—
Keauu-Mountain View division -----	4 839	.4	12.6	18.5	2.0	66.5	4.9	38.9	56.3	9.4
Hawaiian Paradise Park CDP -----	1 115	—	4.3	19.6	—	76.1	1.3	40.4	58.4	5.0
Keauu CDP -----	526	4.0	15.2	34.6	—	46.2	10.8	34.6	54.6	7.4
Kurtistown CDP -----	292	—	3.8	28.4	—	67.8	8.2	35.3	56.5	1.4
Mountain View CDP (pt.) -----	1 143	—	19.2	11.7	1.6	67.5	4.9	40.1	55.0	15.3
Volcano CDP (pt.) -----	539	—	16.5	29.9	11.9	41.7	2.4	32.5	65.1	1.9
North Hilo division -----	454	1.8	5.1	16.7	—	76.4	11.2	23.6	65.2	7.7
Laupahoehoe CDP -----	148	—	—	29.7	—	70.3	16.9	23.6	59.5	5.4
North Kohala division -----	1 358	—	17.6	21.1	—	61.3	6.6	29.2	64.3	6.6
Halaula CDP -----	132	—	21.2	—	—	78.8	9.8	23.5	66.7	—
Hawi CDP -----	279	—	2.2	5.7	—	92.1	10.4	32.6	57.0	3.2
Kapaau CDP -----	349	—	38.1	58.5	—	3.4	4.6	40.7	54.7	3.7
North Kona division -----	7 858	.8	3.3	23.0	—	72.8	5.3	36.6	58.1	3.1
Holualoa CDP -----	1 535	2.1	3.1	20.7	—	74.1	5.7	39.3	54.9	1.8
Honalo CDP -----	666	1.4	2.6	18.9	—	77.2	7.7	36.3	56.0	9.8
Kahaluu-Keauhou CDP -----	785	—	6.4	16.9	—	76.7	5.4	38.1	56.6	3.2
Kailua CDP -----	3 065	.7	2.7	30.0	—	66.7	6.7	43.2	50.1	3.7
Kalaoa CDP -----	1 548	.3	3.2	18.9	—	77.5	1.5	21.3	77.3	.6
Kealahou CDP (pt.) -----	35	—	—	—	—	100.0	17.1	31.4	51.4	11.4
Paauhau-Paauilo division -----	631	—	2.5	9.5	1.4	86.5	9.0	24.9	66.1	4.1
Honokaa CDP (pt.) -----	—	—	—	—	—	—	—	—	—	—
Paauilo CDP -----	195	—	8.2	14.9	—	76.9	10.3	33.8	55.9	5.1
Pahoia-Kalapana division -----	2 271	.2	1.2	9.5	.3	88.9	8.7	39.8	51.5	10.4
Hawaiian Beaches CDP -----	885	.5	—	4.5	—	95.0	4.3	38.4	57.3	5.0
Pahoia CDP -----	351	—	3.7	25.6	—	70.7	25.6	27.4	47.0	15.7
Papaikou-Wailea division -----	1 705	.4	6.8	17.1	—	75.7	9.5	37.4	53.1	5.3
Honoumu CDP -----	188	2.1	—	62.2	—	35.6	7.4	53.7	38.8	8.0
Papaikou CDP -----	565	—	6.5	10.8	—	82.7	5.8	34.0	60.2	4.1
Paukaa CDP -----	191	—	—	—	—	100.0	17.3	31.4	51.3	2.1
Pepeekeo CDP -----	555	—	12.6	14.2	—	73.2	13.3	34.8	51.9	5.8
South Kohala division -----	3 066	.5	2.4	25.7	1.8	69.6	2.9	33.6	63.5	4.3
Puako CDP -----	190	—	—	14.2	—	85.8	8.4	31.1	60.5	6.3
Waikoloa Village CDP -----	866	—	—	17.2	—	82.8	2.7	40.4	56.9	4.6
Waimea CDP -----	1 887	.8	3.6	30.2	2.9	62.5	2.6	29.9	67.4	3.8
South Kona division -----	2 631	.3	3.8	14.0	—	81.6	4.6	32.7	62.7	7.1
Captain Cook CDP -----	892	—	1.7	12.2	—	86.1	.6	22.4	77.0	3.9
Honaunau-Napooopo CDP -----	820	—	3.5	5.9	—	90.6	4.3	40.5	55.2	7.2
Kealahou CDP (pt.) -----	485	—	6.2	37.1	—	56.7	14.0	36.7	49.3	4.7
Honolulu County -----	265 304	4.0	.8	41.0	.1	54.1	11.1	37.1	51.8	2.1
Ewa division -----	64 966	3.2	.7	43.0	—	53.1	4.0	29.4	66.6	1.1
Aiea CDP -----	2 628	1.1	.3	46.0	.3	52.3	5.3	22.0	72.7	1.0
Barbers Point Housing CDP -----	932	—	—	20.5	—	79.5	1.8	58.5	39.7	1.0
Ewa Beach CDP -----	3 341	.1	.6	46.8	—	52.5	3.6	25.5	70.9	1.0
Ewa Gentry CDP -----	722	27.6	5.7	7.6	—	59.1	6.0	33.9	60.1	1.8
Ewa Villages CDP -----	902	2.4	1.2	7.1	—	24.3	8.6	18.5	72.8	1.8
Halaawa CDP -----	4 020	6.5	1.3	41.2	—	51.0	6.6	29.1	64.3	1.2
Hickam Housing CDP -----	1 825	.3	—	29.5	—	70.2	1.3	47.6	51.1	.7
Iroquois Point CDP -----	1 174	16.1	1.6	5.8	—	76.5	1.4	36.7	61.9	—
Makakilo City CDP -----	2 978	.2	—	35.0	—	64.7	3.8	21.2	75.0	-.1
Mililani Town CDP -----	8 776	.4	—	43.4	—	56.1	1.4	20.5	78.1	.6
Pearl City CDP -----	8 876	.1	.5	43.2	—	56.3	3.5	24.9	71.6	.7
Village Park CDP -----	2 038	—	—	53.0	—	47.0	—	15.5	84.5	—
Waimalu CDP -----	10 372	2.2	.5	43.9	—	53.5	3.8	33.8	62.4	.8
Waipahu CDP -----	7 567	2.2	1.2	62.8	—	33.8	10.5	31.2	58.3	3.9
Waipio CDP -----	4 032	18.4	1.3	22.9	—	57.4	1.2	33.2	65.6	.3
Waipio Acres CDP -----	1 789	1.8	—	49.3	—	48.9	2.5	48.5	49.0	1.1
Honolulu division -----	137 801	5.4	.7	41.3	.1	52.5	16.8	42.5	40.6	2.5
Aliamanu CDP -----	2 327	.7	—	39.8	—	59.5	1.3	46.4	52.3	.5
Fort Shafter CDP -----	911	5.0	—	8.7	—	86.3	1.1	45.0	53.9	1.1
Honolulu CDP -----	134 563	5.5	.7	41.6	.1	52.1	17.2	42.4	40.3	2.6
Koolauloa division -----	4 975	1.0	2.4	36.3	—	60.3	8.2	41.0	50.7	4.3
Hauula CDP -----	860	—	2.4	48.1	—	49.4	11.3	36.3	52.4	2.3
Kaaawa CDP -----	438	—	5.5	30.4	—	64.2	3.4	43.4	53.2	—
Kahuku CDP -----	559	—	4.1	49.7	—	46.2	15.2	36.3	48.5	5.7
Kawela Bay CDP -----	175	—	—	13.7	—	86.3	—	51.4	48.6	—
Laie CDP -----	1 018	2.6	—	21.0	—	76.4	6.3	58.3	35.5	8.6
Punahoa CDP -----	292	3.8	—	51.0	—	45.2	19.5	51.4	29.1	2.1
Pupukea CDP -----	1 297	1.1	2.3	37.4	—	59.2	2.9	31.5	65.6	3.0
Koolaupoko division -----	33 846	1.6	.6	34.3	—	63.5	3.3	28.5	68.1	.7
Ahuimanu CDP -----	2 487	—	.7	39.4	—	60.0	2.7	25.9	71.4	.2
Heeia CDP -----	1 530	—	—	37.8	—	62.2	.7	15.9	83.3	—
Kahaluu CDP -----	924	—	1.4	39.2	—	59.4	4.0	26.7	69.3	1.7
Kailua CDP -----	11 843	2.4	.3	29.1	—	68.2	3.2	27.1	69.7	.9
Kaneohe CDP -----	10 610	2.0	1.2	36.6	—	60.2	4.4	28.2	67.5	.5
Kaneohe Station CDP -----	2 014	1.1	—	31.5	—	67.4	.9	58.6	40.5	1.1
Maunawili CDP -----	1 422	1.2	—	30.1	—	68.7	1.2	20.6	78.2	.6
Waikane CDP -----	164	—	—	46.3	—	53.7	5.5	23.8	70.7	—
Waimanalo CDP -----	817	—	—	40.3	—	59.7	6.0	30.2	63.8	1.7
Waimanalo Beach CDP -----	937	.7	.3	43.9	—	55.1	4.9	30.5	64.6	1.6
Wahiawa division -----	10 831	2.0	1.2	50.2	.1	46.6	8.3	43.6	48.0	2.5
Schofield Barracks CDP -----	3 504	3.4	.3	35.8	.1	60.4	1.1	57.4	41.4	.7
Wahiawa CDP -----	5 619	1.7	1.6	58.4	.1	38.2	13.8	36.0	50.2	3.5
Wheeler AFB CDP -----	702	—	—	37.3	—	62.7	3.6	42.6	53.8	2.8
Whitmore Village CDP -----	816	—	2.5	62.6	—	34.9	7.0	35.2	57.8	3.4
Waialua division -----	3 468	.3	3.6	45.8	—	50.3	9.4	32.0	58.6	5.3
Haleiwa CDP -----	770	—	2.6	48.3	—	49.1	16.5	32.9	50.6	10.8
Mokuleia CDP -----	624	1.6	.8	57.9	—	39.7	6.1	39.3	54.6	1.6
Waialua CDP -----	1 219	—	4.0	35.4	—	60.5	10.8	30.5	58.7	5.9

SUMMARY SOCIAL, ECONOMIC, AND HOUSING CHARACTERISTICS

Table 13. Fuels and Equipment Characteristics: 1990—Con.

[Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text]

State County County Subdivision Place	All occupied housing units	Percent with—								
		House heating fuel					Vehicles available			No telephone in unit
		Utility gas	Bottled, tank, or LP gas	Electricity	Fuel oil, kero- sene, etc.	Other or none	None	1	2 or more	
Honolulu County—Con.										
Waianae division	9 417	2.4	2.2	37.4	—	58.1	8.9	35.0	56.1	4.5
Mali CDP	1 414	4.8	2.9	36.3	—	56.0	5.8	30.0	64.2	3.1
Makaha CDP	2 379	1.3	2.9	36.1	—	59.7	11.5	43.8	44.6	1.7
Makaha Valley CDP	422	—	—	42.7	—	57.3	4.3	55.5	40.3	—
Nanakuli CDP	2 053	4.6	3.3	42.5	—	49.7	8.3	34.0	57.7	7.9
Waianae CDP	2 183	1.4	.5	37.4	—	60.7	10.5	28.8	60.7	5.7
Kalawao County	62	—	—	100.0	—	—	41.9	9.7	48.4	9.7
Kalawao division	62	—	—	100.0	—	—	41.9	9.7	48.4	9.7
Kauai County	16 295	1.7	9.0	27.5	.3	61.5	4.8	28.1	67.2	3.0
Eleele-Kalaheo division	2 084	1.8	8.3	28.7	.1	61.1	3.8	22.2	73.9	2.8
Eleele CDP (pt.)	421	—	6.2	27.6	—	66.3	8.1	19.5	72.4	—
Hanapepe CDP (pt.)	—	—	—	—	—	—	—	—	—	—
Kalaheo CDP	1 152	1.2	8.1	25.8	.3	64.7	1.6	22.0	76.3	3.6
Lawai CDP (pt.)	335	6.9	7.5	31.3	—	54.3	6.0	19.4	74.6	2.4
Omao CDP (pt.)	—	—	—	—	—	—	—	—	—	—
Hanalei division	1 590	—	8.6	23.1	—	68.3	.6	37.9	61.5	2.0
Hanalei CDP	155	—	9.7	7.1	—	83.2	—	50.3	49.7	3.9
Kalihiwai CDP	177	—	9.6	48.0	—	42.4	4.0	27.1	68.9	4.0
Kilauea CDP	484	—	19.4	8.9	—	71.7	.6	30.4	69.0	2.7
Princeville CDP	525	—	—	37.3	—	62.7	—	40.2	59.8	—
Kapaa division	2 119	1.6	8.2	25.7	.5	64.1	9.2	27.2	63.6	4.0
Kapaa CDP (pt.)	2 119	1.6	8.2	25.7	.5	64.1	9.2	27.2	63.6	4.0
Kaunakani-Hanapepe division	906	.4	8.4	18.7	—	72.5	3.2	24.7	72.1	4.0
Eleele CDP (pt.)	—	—	—	—	—	—	—	—	—	—
Hanapepe CDP (pt.)	469	—	6.6	22.0	—	71.4	4.7	27.9	67.4	5.5
Kaunakani CDP	236	1.7	10.2	20.3	—	67.8	—	17.8	82.2	1.7
Pakala Village CDP	174	—	7.5	10.3	—	82.2	4.0	29.3	66.7	—
Kekaha-Waimea division	1 741	3.8	6.8	17.4	.5	71.5	7.2	25.2	67.7	2.9
Kekaha CDP	1 037	5.3	7.3	12.4	—	74.9	8.2	23.4	68.4	2.5
Waimea CDP	600	1.8	7.2	22.7	1.3	67.0	6.7	26.0	67.3	2.7
Koloa-Poipu division	1 620	1.9	10.8	28.2	—	59.1	2.2	28.9	69.0	2.8
Koloa CDP	513	4.9	9.4	36.1	—	49.7	4.7	43.9	51.5	.8
Lawai CDP (pt.)	289	—	7.3	11.4	—	81.3	—	20.4	79.6	9.3
Omao CDP (pt.)	358	1.7	20.7	21.5	—	56.1	—	17.9	82.1	2.2
Poipu CDP	420	—	6.4	34.5	—	59.0	—	28.6	71.4	—
Lihue division	1 993	1.1	8.7	39.5	—	50.7	7.2	39.1	53.6	3.6
Lihue CDP (pt.)	1 993	1.1	8.7	39.5	—	50.7	7.2	39.1	53.6	3.6
Niihau division	37	—	—	—	32.4	67.6	100.0	—	—	100.0
Puhi-Hanamaulu division	1 375	4.4	13.7	36.0	.7	45.3	3.8	23.3	72.9	3.5
Hanamaulu CDP	885	6.8	15.7	37.1	1.0	39.4	5.9	24.6	69.5	3.2
Lihue CDP (pt.)	72	—	—	33.3	—	66.7	—	—	100.0	—
Puhi CDP	295	—	14.9	33.6	—	51.5	—	13.6	86.4	—
Wailua-Anahola division	2 830	.7	8.9	26.7	.2	63.4	2.4	24.8	72.8	1.0
Anahola CDP	307	—	10.1	25.1	—	64.8	2.3	33.6	64.2	1.6
Kapaa CDP (pt.)	433	—	8.1	15.2	—	76.7	—	21.5	78.5	2.1
Wailua CDP	699	3.0	13.4	33.9	.9	48.8	6.2	26.9	67.0	2.0
Wailua Homesteads CDP	1 238	—	5.7	29.1	—	65.3	1.5	20.6	77.9	—
Mauai County	33 145	.8	4.2	34.9	.4	59.7	5.6	32.3	62.1	3.2
East Molokai division	1 403	.6	11.8	54.0	—	33.7	11.8	37.0	51.2	12.4
Kaunakakai CDP	837	1.0	8.2	55.6	—	35.2	11.9	40.4	47.7	10.9
Haiku-Pauwela division	1 918	—	9.5	30.2	1.0	59.2	3.0	29.1	67.9	5.3
Haiku-Pauwela CDP	1 528	—	9.5	34.7	.8	55.0	3.7	28.4	67.9	2.9
Hana division	590	—	3.1	9.7	—	87.3	11.2	47.5	41.4	15.8
Hana CDP	173	—	4.0	2.3	—	93.6	15.6	57.8	26.6	15.0
Kahului division	4 977	1.9	2.9	50.7	—	44.5	8.2	28.3	63.5	1.3
Kahului CDP (pt.)	4 977	1.9	2.9	50.7	—	44.5	8.2	28.3	63.5	1.3
Kihei division	4 888	.7	1.0	20.0	.2	78.1	2.9	36.8	60.3	1.5
Kihei CDP	4 009	.6	1.2	21.2	—	76.9	3.4	35.0	61.5	1.8
Maalaea CDP	366	2.7	—	16.1	2.2	79.0	—	52.5	47.5	—
Wailea-Makena CDP (pt.)	504	—	—	11.7	—	88.3	1.2	38.1	60.7	—
Kula division	3 057	.4	6.1	31.6	3.5	58.4	1.9	28.8	69.3	1.6
Wailea-Makena CDP (pt.)	1 042	.6	.7	16.7	1.2	80.8	3.6	30.2	66.2	—
Lahaina division	4 851	.5	1.2	26.7	.3	71.3	7.7	38.1	54.2	4.3
Kaanapali CDP	256	—	—	24.2	—	75.8	4.3	49.2	46.5	—
Kapalua CDP	116	—	—	25.9	—	74.1	—	66.4	33.6	—
Lahaina CDP	2 654	.7	1.9	27.8	.5	69.0	11.1	27.9	61.0	6.2
Napili-Honokowai CDP	1 792	.4	.3	26.0	—	73.3	3.9	50.6	45.5	2.5
Lanai division	798	—	—	4.0	—	96.0	17.9	44.1	38.0	5.0
Lanai City CDP	793	—	—	4.0	—	96.0	18.0	44.4	37.6	5.0
Makawao-Paia division	4 867	.6	6.5	40.2	—	52.8	2.5	23.6	73.9	1.0
Haliimaile CDP	229	4.8	17.0	44.5	—	33.6	2.2	18.3	79.5	5.7
Makawao CDP	1 722	—	5.8	38.1	—	56.1	1.5	26.7	71.8	—
Paia CDP	692	—	2.2	41.6	—	56.2	4.0	23.8	72.1	2.2
Pukalani CDP	1 841	.6	5.3	43.6	—	50.6	3.0	22.0	75.0	.9
Puunene division	40	—	30.0	30.0	—	40.0	47.5	—	52.5	—
Kahului CDP (pt.)	40	—	30.0	30.0	—	40.0	47.5	—	52.5	—
Spreckelsville division	84	—	—	44.0	—	56.0	7.1	15.5	77.4	—
Kahului CDP (pt.)	—	—	—	—	—	—	—	—	—	—
Waihee-Waikapu division	678	—	4.9	34.8	—	60.3	5.5	21.4	73.2	4.3
Waihee-Waiehue CDP (pt.)	275	—	2.9	36.7	—	60.4	10.2	14.5	75.3	1.1
Waikapu CDP	223	—	9.0	36.3	—	54.7	1.3	35.4	63.2	4.0
Wailuku CDP (pt.)	105	—	—	45.7	—	54.3	—	3.8	96.2	—
Wailuku division	4 333	.9	4.7	41.8	—	52.6	4.7	35.3	60.1	3.0
Waihee-Waiehue CDP (pt.)	777	—	2.4	51.9	—	45.7	—	16.6	83.4	.3
Wailuku CDP (pt.)	3 556	1.1	5.2	39.6	—	54.1	5.7	39.4	54.9	3.6
West Molokai division	661	1.4	4.7	49.6	—	44.3	7.4	35.9	56.7	5.7
Kualapuu CDP	504	1.8	6.2	62.1	—	30.0	7.3	38.3	54.4	2.6
Maunaloa CDP	124	—	—	12.1	—	87.9	9.7	25.8	64.5	20.2

Table 14. Fuels and Equipment Characteristics: 1990

[Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text]

State County Place and [In Selected States] County Subdivision	All occupied housing units	Percent with—								
		House heating fuel					Vehicles available			No telephone in unit
		Utility gas	Bottled, tank, or LP gas	Electricity	Fuel oil, kero- sene, etc.	Other or none	None	1	2 or more	
The State -----	356 267	3.3	2.0	37.9	.2	56.6	9.9	36.1	54.1	2.6
COUNTY										
Hawaii County -----	41 461	1.5	5.3	24.5	.7	68.1	7.5	35.4	57.1	5.5
Honolulu County -----	265 304	4.0	.8	41.0	.1	54.1	11.1	37.1	51.8	2.1
Kalawao County -----	62	—	—	100.0	—	—	41.9	9.7	48.4	9.7
Kauai County -----	16 295	1.7	9.0	27.5	.3	61.5	4.8	28.1	67.2	3.0
Maui County -----	33 145	.8	4.2	34.9	.4	59.7	5.6	32.3	62.1	3.2
PLACE AND COUNTY SUBDIVISION										
Ahuimanu CDP, Honolulu County -----	2 487	—	.7	39.4	—	60.0	2.7	25.9	71.4	.2
Aiea CDP, Honolulu County -----	2 628	1.1	.3	46.0	.3	52.3	5.3	22.0	72.7	1.0
Aliamanu CDP, Honolulu County -----	2 327	.7	—	39.8	—	59.5	1.3	46.4	52.3	.5
Anahola CDP, Kauai County -----	307	—	10.1	25.1	—	64.8	2.3	33.6	64.2	1.6
Barbers Point Housing CDP, Honolulu County -----	932	—	—	20.5	—	79.5	1.8	58.5	39.7	1.0
Captain Cook CDP, Hawaii County -----	892	—	1.7	12.2	—	86.1	.6	22.4	77.0	3.9
Eleele CDP, Kauai County -----	421	—	6.2	27.6	—	66.3	8.1	19.5	72.4	—
Ewa Beach CDP, Honolulu County -----	3 341	.1	.6	46.8	—	52.5	3.6	25.5	70.9	1.0
Ewa Gentry CDP, Honolulu County -----	722	27.6	5.7	7.6	—	59.1	6.0	33.9	60.1	1.8
Ewa Villages CDP, Honolulu County -----	902	2.4	1.2	72.1	—	24.3	8.6	18.5	72.8	1.8
Fort Shafter CDP, Honolulu County -----	911	5.0	—	8.7	—	86.3	1.1	45.0	53.9	1.1
Haiku-Pauwela CDP, Maui County -----	1 528	—	9.5	34.7	.8	55.0	3.7	28.4	67.9	2.9
Halaiala CDP, Hawaii County -----	132	—	21.2	—	—	78.8	9.8	23.5	66.7	—
Halaui CDP, Honolulu County -----	4 020	6.5	1.3	41.2	—	51.0	6.6	29.1	64.3	1.2
Haleiwa CDP, Honolulu County -----	770	—	2.6	48.3	—	49.1	16.5	32.9	50.6	10.8
Haliimaile CDP, Maui County -----	229	4.8	17.0	44.5	—	33.6	2.2	18.3	79.5	5.7
Hana CDP, Maui County -----	173	—	4.0	2.3	—	93.6	15.6	57.8	26.8	15.0
Hanalei CDP, Kauai County -----	155	—	9.7	7.1	—	83.2	—	50.3	49.7	3.9
Hanamaulu CDP, Kauai County -----	885	6.8	15.7	37.1	1.0	39.4	5.9	24.6	69.5	3.2
Hanapepe CDP, Kauai County -----	469	—	6.6	22.0	—	71.4	4.7	27.9	67.4	5.5
Haulua CDP, Honolulu County -----	860	—	2.4	48.1	—	49.4	11.3	36.3	52.4	2.3
Hawaiian Beaches CDP, Hawaii County -----	885	.5	—	4.5	—	95.0	4.3	38.4	57.3	5.0
Hawaiian Ocean View CDP, Hawaii County -----	414	—	8.9	5.3	2.9	82.9	2.9	49.5	47.6	21.3
Hawaiian Paradise Park CDP, Hawaii County -----	1 115	—	4.3	19.6	—	76.1	1.3	40.4	58.4	5.0
Hawi CDP, Hawaii County -----	279	—	2.2	5.7	—	92.1	10.4	32.6	57.0	3.2
Heeia CDP, Honolulu County -----	1 530	—	—	37.8	—	62.2	.7	15.9	83.3	—
Hickam Housing CDP, Honolulu County -----	1 825	.3	—	29.5	—	70.2	1.3	47.6	51.1	.7
Hilo CDP, Hawaii County -----	13 327	3.5	3.8	37.2	.5	55.1	10.2	36.2	53.5	4.0
Holualoa CDP, Hawaii County -----	1 535	2.1	3.1	20.7	—	74.1	5.7	39.3	54.9	1.8
Honalo CDP, Hawaii County -----	666	1.4	2.6	18.9	—	77.2	7.7	36.3	56.0	9.8
Honaunau-Napooopoo CDP, Hawaii County -----	820	—	3.5	5.9	—	90.6	4.3	40.5	55.2	7.2
Honokaa CDP, Hawaii County -----	791	—	3.8	17.1	—	79.1	13.1	26.0	60.8	2.4
Honolulu CDP, Honolulu County -----	134 563	5.5	.7	41.6	.1	52.1	17.2	42.4	40.3	2.6
Honoumuli CDP, Hawaii County -----	188	2.1	—	62.2	—	35.6	7.4	53.7	38.8	8.0
Iroquois Point CDP, Honolulu County -----	1 174	16.1	1.6	5.8	—	76.5	1.4	36.7	61.9	—
Kaaawa CDP, Honolulu County -----	438	—	5.5	30.4	—	64.2	3.4	43.4	53.2	—
Kaanapali CDP, Maui County -----	256	—	—	24.2	—	75.8	4.3	49.2	46.5	—
Kahaluu CDP, Honolulu County -----	924	—	1.4	39.2	—	59.4	4.0	26.7	69.3	1.7
Kahaluu-Keaouhou CDP, Hawaii County -----	785	—	6.4	16.9	—	76.7	5.4	38.1	56.6	3.2
Kahuku CDP, Honolulu County -----	559	—	4.1	49.7	—	46.2	15.2	36.3	48.5	5.7
Kahului CDP, Maui County -----	5 017	1.9	3.1	50.6	—	44.4	8.5	28.1	63.4	1.3
Kailua CDP, Hawaii County -----	3 065	.7	2.7	30.0	—	66.7	6.7	43.2	50.1	3.7
Kailua CDP, Honolulu County -----	11 843	2.4	.3	29.1	—	68.2	3.2	27.1	69.7	.9
Kalaheo CDP, Kauai County -----	1 152	1.2	8.1	25.8	.3	64.7	1.6	22.0	76.3	3.6
Kalaooa CDP, Hawaii County -----	1 548	.3	3.2	18.9	—	77.5	1.5	21.3	77.3	.6
Kalihiwai CDP, Kauai County -----	177	—	9.6	48.0	—	42.4	4.0	27.1	68.9	4.0
Kaneohe CDP, Honolulu County -----	10 610	2.0	1.2	36.6	—	60.2	4.4	28.2	67.5	.5
Kaneohe Station CDP, Honolulu County -----	2 014	1.1	—	31.5	—	67.4	.9	58.6	40.5	1.1
Kapaa CDP, Kauai County -----	2 552	1.3	8.2	23.9	.4	66.2	7.7	26.2	66.1	3.6
Kapaa CDP, Hawaii County -----	349	—	38.1	58.5	—	3.4	4.6	40.7	54.7	3.7
Kapalua CDP, Maui County -----	116	—	—	25.9	—	74.1	—	66.4	33.6	—
Kaumakani CDP, Kauai County -----	236	1.7	10.2	20.3	—	67.8	—	17.8	82.2	1.7
Kaunakakai CDP, Maui County -----	837	1.0	8.2	55.6	—	35.2	11.9	40.4	47.7	10.9
Kawela Bay CDP, Honolulu County -----	175	—	—	13.7	—	86.3	—	51.4	48.6	—
Keaua CDP, Hawaii County -----	526	4.0	15.2	34.6	—	46.2	10.8	34.6	54.6	7.4
Kealahou CDP, Hawaii County -----	520	—	5.8	34.6	—	59.6	14.2	36.3	49.4	5.2
Kekaha CDP, Kauai County -----	1 037	5.3	7.3	12.4	—	74.9	8.2	23.4	68.4	2.5
Kihei CDP, Maui County -----	4 009	.6	1.2	21.2	—	76.9	3.4	35.0	61.5	1.8
Kilauea CDP, Kauai County -----	484	—	19.4	8.9	—	71.7	.6	30.4	69.0	2.7
Koloa CDP, Kauai County -----	513	4.9	9.4	36.1	—	49.7	4.7	43.9	51.5	.8
Kualapuu CDP, Maui County -----	504	1.8	6.2	62.1	—	30.0	7.3	38.3	54.4	2.6
Kukuihaele CDP, Hawaii County -----	65	—	—	6.2	—	93.8	26.2	6.2	67.7	—
Kurtistown CDP, Hawaii County -----	292	—	3.8	28.4	—	67.8	8.2	35.3	56.5	1.4
Lahaina CDP, Maui County -----	2 654	.7	1.9	27.8	.5	69.0	11.1	27.9	61.0	6.2
Laie CDP, Honolulu County -----	1 018	2.6	—	21.0	—	76.4	6.3	58.3	35.5	8.6
Lanai City CDP, Maui County -----	793	—	—	4.0	—	96.0	18.0	44.4	37.6	5.0
Laupahoehoe CDP, Hawaii County -----	148	—	—	29.7	—	70.3	16.9	23.6	59.5	5.4
Lawai CDP, Kauai County -----	624	3.7	7.4	22.1	—	66.8	3.2	19.9	76.9	5.6
Lihue CDP, Kauai County -----	2 065	1.0	8.4	39.3	—	51.2	7.0	37.8	55.3	3.5
Maalaea CDP, Maui County -----	366	2.7	—	16.1	2.2	79.0	—	52.5	47.5	—
Maui CDP, Honolulu County -----	1 414	4.8	2.9	36.3	—	56.0	5.8	30.0	64.2	3.1
Makaha CDP, Honolulu County -----	2 379	1.3	2.9	36.1	—	59.7	11.5	43.8	44.6	1.7
Makaha Valley CDP, Honolulu County -----	422	—	—	42.7	—	57.3	4.3	55.5	40.3	—
Makakilo City CDP, Honolulu County -----	2 978	.2	—	35.0	—	64.7	3.8	21.2	75.0	.1
Makawao CDP, Maui County -----	1 722	—	5.8	38.1	—	56.1	1.5	26.7	71.8	—
Maunaloa CDP, Maui County -----	124	—	—	12.1	—	87.9	9.7	25.8	64.5	20.2
Maunawili CDP, Honolulu County -----	1 422	1.2	—	30.1	—	68.7	1.2	20.6	78.2	.6
Mililani Town CDP, Honolulu County -----	8 776	.4	—	43.4	—	56.1	1.4	20.5	78.1	.6
Mokuleia CDP, Honolulu County -----	624	1.6	.8	57.9	—	39.7	6.1	39.3	54.6	1.6
Mountain View CDP, Hawaii County -----	1 143	—	19.2	11.7	1.6	67.5	4.9	40.1	55.0	15.3

Table 14. Fuels and Equipment Characteristics: 1990—Con.

[Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text]

State County Place and [In Selected States] County Subdivision	All occupied housing units	Percent with—								
		House heating fuel				Vehicles available			No telephone in unit	
		Utility gas	Bottled, tank, or LP gas	Electricity	Fuel oil, kero- sene, etc.	Other or none	None	1		2 or more
PLACE AND COUNTY SUBDIVISION— Con.										
Naalehu CDP, Hawaii County	335	—	21.5	20.9	—	57.6	8.1	27.8	64.2	6.9
Nanakuli CDP, Honolulu County	2 053	4.6	3.3	42.5	—	49.7	8.3	34.0	57.7	7.9
Napili-Honokowai CDP, Maui County	1 792	.4	.3	26.0	—	73.3	3.9	50.6	45.5	2.5
Omao CDP, Kauai County	358	1.7	20.7	21.5	—	56.1	—	17.9	82.1	2.2
Paauiolo CDP, Hawaii County	195	—	8.2	14.9	—	76.9	10.3	33.8	55.9	5.1
Pahala CDP, Hawaii County	458	—	—	2.6	—	97.4	14.6	34.7	50.7	3.7
Pahoa CDP, Hawaii County	351	—	3.7	25.6	—	70.7	25.6	27.4	47.0	15.7
Paia CDP, Maui County	692	—	2.2	41.6	—	56.2	4.0	23.8	72.1	2.2
Pakala Village CDP, Kauai County	174	—	7.5	10.3	—	82.2	4.0	29.3	66.7	—
Papaikou CDP, Hawaii County	565	—	6.5	10.8	—	82.7	5.8	34.0	60.2	4.1
Paukaa CDP, Hawaii County	191	—	—	—	—	100.0	17.3	31.4	51.3	2.1
Pearl City CDP, Honolulu County	8 876	.1	.5	43.2	—	56.3	3.5	24.9	71.6	.7
Pepeekeo CDP, Hawaii County	555	—	12.6	14.2	—	73.2	13.3	34.8	51.9	5.8
Poipu CDP, Kauai County	420	—	6.4	34.5	—	59.0	—	28.6	71.4	—
Princeville CDP, Kauai County	525	—	—	37.3	—	62.7	—	40.2	59.8	—
Puako CDP, Hawaii County	190	—	—	14.2	—	85.8	8.4	31.1	60.5	6.3
Puhi CDP, Kauai County	295	—	14.9	33.6	—	51.5	—	13.6	86.4	—
Pukalani CDP, Maui County	1 841	.6	5.3	43.6	—	50.6	3.0	22.0	75.0	.9
Punaluu CDP, Honolulu County	292	3.8	—	51.0	—	45.2	19.5	51.4	29.1	2.1
Pupukea CDP, Honolulu County	1 297	1.1	2.3	37.4	—	59.2	2.9	31.5	65.6	3.0
Schofield Barracks CDP, Honolulu County ---	3 504	3.4	.3	35.8	.1	60.4	1.1	57.4	41.4	.7
Village Park CDP, Honolulu County	2 038	—	—	53.0	—	47.0	—	15.5	84.5	—
Volcano CDP, Hawaii County	562	—	15.8	28.6	11.4	44.1	2.3	32.6	65.1	1.8
Wahiawa CDP, Honolulu County	5 619	1.7	1.6	58.4	.1	38.2	13.8	36.0	50.2	3.5
Waialua CDP, Honolulu County	1 219	—	4.0	35.4	—	60.5	10.8	30.5	58.7	5.9
Waianae CDP, Honolulu County	2 183	1.4	.5	37.4	—	60.7	10.5	28.8	60.7	5.7
Waihee-Waiehue CDP, Maui County	1 052	—	2.6	47.9	—	49.5	2.7	16.1	81.3	.5
Waikane CDP, Honolulu County	164	—	—	46.3	—	53.7	5.5	23.8	70.7	—
Waikapu CDP, Maui County	223	—	9.0	36.3	—	54.7	1.3	35.4	63.2	4.0
Waikoloa Village CDP, Hawaii County	866	—	—	17.2	—	82.8	2.7	40.4	56.9	4.6
Wailea-Makena CDP, Maui County	1 546	.4	.5	15.1	.8	83.2	2.8	32.8	64.4	—
Wailua CDP, Kauai County	699	3.0	13.4	33.9	.9	48.8	6.2	26.9	67.0	2.0
Wailua Homesteads CDP, Kauai County	1 238	—	5.7	29.1	—	65.3	1.5	20.6	77.9	—
Wailuku CDP, Maui County	3 661	1.0	5.0	39.8	—	54.1	5.5	38.4	56.1	3.5
Waimalu CDP, Honolulu County	10 372	2.2	.5	43.9	—	53.5	3.8	33.8	62.4	.8
Waimanalo CDP, Honolulu County	817	—	—	40.3	—	59.7	6.0	30.2	63.8	1.7
Waimanalo Beach CDP, Honolulu County	937	.7	.3	43.9	—	55.1	4.9	30.5	64.6	1.6
Waimea CDP, Hawaii County	1 887	.8	3.6	30.2	2.9	62.5	2.6	29.9	67.4	3.8
Waimea CDP, Kauai County	600	1.8	7.2	22.7	1.3	67.0	6.7	26.0	67.3	2.7
Wainaku CDP, Hawaii County	402	2.0	—	36.6	—	61.4	11.2	27.9	60.9	4.7
Waipahu CDP, Honolulu County	7 567	2.2	1.2	62.8	—	33.8	10.5	31.2	58.3	3.9
Waipio CDP, Honolulu County	4 032	18.4	1.3	22.9	—	57.4	1.2	33.2	65.6	.3
Waipio Acres CDP, Honolulu County	1 789	1.8	—	49.3	—	48.9	2.5	48.5	49.0	1.1
Wheeler AFB CDP, Honolulu County	702	—	—	37.3	—	62.7	3.6	42.6	53.8	2.8
Whitmore Village CDP, Honolulu County	816	—	2.5	62.6	—	34.9	7.0	35.2	57.8	3.4

Table 15. Homeowner and Renter Characteristics: 1990

[Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text]

State County County Subdivision Place	All owner-occupied housing units			Specified owner-occupied housing units						All renter-occupied housing units				
	Total	Percent with householder moved into unit—		With a mortgage			Not mortgaged			Percent with householder moved into unit—		Specified renter paying cash rent		
		1989 to March 1990	1969 or earlier	Total	Median selected monthly owner costs (dollars)	Median selected monthly owner costs as a percentage of household income in 1989	Total	Median selected monthly owner costs (dollars)	Median selected monthly owner costs as a percentage of household income in 1989	Total	1989 to March 1990	1969 or earlier	Median gross rent (dollars)	Median gross rent as a percentage of household income in 1989
The State -----	191 894	9.7	29.1	102 601	1 008	21.4	44 909	170	10.8	164 373	38.9	4.1	650	27.4
Hawaii County -----	25 336	11.1	24.0	12 968	669	20.5	9 280	130	10.9	16 125	42.2	4.5	490	27.0
Hilo division -----	8 432	6.1	35.4	4 645	690	17.8	2 971	134	10.7	5 441	36.8	5.0	418	27.3
Hilo CDP -----	8 036	5.7	35.2	4 525	693	17.8	2 782	136	10.7	5 291	37.4	4.8	417	27.5
Mountain View CDP (pt.) -----	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Wainaku CDP -----	267	9.4	49.1	92	575	17.4	142	103	10.0	135	17.8	12.6	438	19.3
Honokaa-Kukuihaele division -----	792	6.7	40.3	336	567	17.1	376	130	10.7	447	21.5	5.6	386	24.0
Honokaa CDP (pt.) -----	495	4.8	44.4	244	557	17.4	234	127	11.1	296	22.6	3.7	402	26.0
Kukuihaele CDP -----	49	—	89.8	8	350	10.0	41	128	10.0	16	31.3	43.8	225	10.0
Kau division -----	1 061	17.2	18.0	460	448	19.9	531	116	10.8	475	38.3	2.7	300	23.5
Hawaiian Ocean View CDP -----	320	31.9	2.8	143	479	27.5	165	100-	10.0	94	72.3	—	365	27.5
Naalehu CDP -----	254	—	26.8	98	438	17.2	138	129	11.8	81	12.3	8.6	344	32.5
Pahala CDP -----	302	—	33.1	145	395	22.8	148	137	11.5	156	23.1	3.8	220	17.7
Volcano CDP (pt.) -----	18	33.3	—	12	650	22.5	—	—	—	5	40.0	—	875	35.0+
Keauu-Mountain View division -----	3 444	17.2	11.4	1 399	542	19.7	1 607	102	10.9	1 395	46.1	1.6	477	31.5
Hawaiian Paradise Park CDP -----	820	22.6	4.0	458	600	17.9	287	105	10.0	295	58.0	—	553	35.0+
Keauu CDP -----	392	14.8	32.4	98	636	22.1	286	121	11.2	134	35.8	6.7	381	31.9
Kurtistown CDP -----	223	6.7	39.5	80	521	16.0	75	153	10.6	69	26.1	18.8	335	12.8
Mountain View CDP (pt.) -----	837	14.3	10.5	295	549	21.6	416	100-	10.9	306	37.3	—	437	33.7
Volcano CDP (pt.) -----	342	20.5	10.8	138	406	13.8	138	128	12.7	197	51.8	—	469	20.9
North Hilo division -----	250	3.2	35.2	146	419	20.5	87	130	11.6	204	23.5	34.8	182	14.8
Laupahoehoe CDP -----	87	—	20.7	38	417	18.1	49	137	10.0	61	9.8	24.6	244	10.0
North Kohala division -----	894	8.5	47.5	350	582	16.5	445	100-	10.2	464	42.2	2.6	492	23.5
Halaula CDP -----	94	—	47.9	65	418	18.6	29	100-	13.2	38	26.3	—	525	14.0
Hawi CDP -----	173	2.3	46.8	72	677	20.4	95	118	10.0	106	35.8	3.8	396	27.9
Kapaau CDP -----	274	5.1	71.9	58	629	15.7	186	100-	10.0	75	62.7	—	507	26.1
North Kona division -----	4 333	16.0	7.3	2 470	971	23.7	965	205	11.0	3 525	47.1	2.0	715	29.2
Holualoa CDP -----	875	21.0	10.3	461	956	23.6	287	236	12.1	660	45.0	1.7	729	23.7
Honalo CDP -----	289	9.3	40.1	97	1 049	26.3	129	170	10.0	377	46.9	1.6	755	32.8
Kahaluu-Keauhou CDP -----	483	15.1	3.7	171	850	16.4	100	215	11.7	302	45.0	4.6	850	35.0+
Kailua CDP -----	1 407	16.1	4.6	882	902	22.5	181	185	11.8	1 658	48.3	2.3	597	29.6
Kalaoa CDP -----	1 131	14.5	1.4	804	1 046	26.4	219	210	10.0	417	56.6	—	946	28.1
Kealahou CDP (pt.) -----	17	—	35.3	17	723	15.5	—	—	—	18	—	—	686	24.1
Paauhau-Paauilo division -----	272	4.8	41.2	50	578	17.2	149	136	12.5	359	24.2	35.9	145	12.7
Honokaa CDP (pt.) -----	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Paauilo CDP -----	11	—	63.6	—	—	—	11	161	10.0	184	8.2	42.9	135	10.9
Pahoia-Kalapana division -----	1 619	11.3	9.3	811	472	22.8	712	108	12.4	652	59.5	1.1	501	35.0+
Hawaiian Beaches CDP -----	647	8.5	2.2	425	481	22.2	165	118	12.6	238	60.5	—	530	35.0+
Pahoia CDP -----	215	4.7	51.2	106	607	22.5	109	119	11.0	136	38.2	5.1	308	31.0
Papaikou-Wailea division -----	1 199	5.4	44.2	591	545	19.8	537	123	10.2	506	31.4	6.7	359	24.7
Honouuuli CDP -----	114	—	56.1	43	450	16.5	71	104	10.0	74	29.7	—	419	24.5
Papaikou CDP -----	433	8.8	53.1	195	667	20.7	198	129	10.0	132	22.7	3.0	438	23.8
Paukaa CDP -----	164	6.1	47.0	78	760	25.5	80	100-	10.0	27	55.6	29.6	589	35.0+
Pepeekeo CDP -----	367	1.4	23.4	236	425	17.6	124	130	10.9	188	40.4	2.1	178	26.7
South Kohala division -----	1 612	16.7	10.7	1 025	837	23.8	380	182	11.0	1 454	58.0	2.1	839	26.8
Puako CDP -----	62	12.9	—	46	1 900	28.8	9	125	10.0	128	30.5	—	796	35.0+
Waikoloa Village CDP -----	358	36.3	—	220	1 317	25.0	72	175	11.3	508	82.1	—	895	25.5
Waimea CDP -----	1 144	9.1	15.1	711	744	23.0	299	185	10.9	743	47.1	4.0	757	27.2
South Kona division -----	1 428	12.2	27.0	685	845	21.0	520	143	10.6	1 203	41.1	3.9	441	25.5
Captain Cook CDP -----	546	12.1	31.5	316	886	18.5	155	134	10.3	346	41.0	4.3	485	26.4
Honaunau-Napoopoo CDP -----	412	5.6	21.1	155	739	25.7	187	169	10.9	408	47.5	4.4	536	30.0
Kealahou CDP (pt.) -----	210	10.5	42.9	98	863	19.6	91	143	10.0	275	19.3	2.5	294	22.0
Honolulu County -----	137 893	9.2	30.7	73 972	1 121	21.5	26 931	185	10.7	127 411	38.1	4.0	693	27.6
Ewa division -----	39 924	11.8	21.6	27 628	1 151	22.8	4 352	170	10.4	25 042	47.2	1.3	807	29.4
Aiea CDP -----	1 931	4.2	58.5	1 042	989	15.7	717	180	10.2	697	37.7	3.4	882	25.1
Barbers Point Housing CDP -----	22	100.0	—	—	—	—	22	100-	—	910	45.8	—	684	31.4
Ewa Beach CDP -----	2 311	5.1	16.4	1 759	910	19.9	206	149	12.8	1 030	34.1	.5	755	28.0
Ewa Gentry CDP -----	573	79.1	—	280	1 393	30.7	—	—	—	149	96.6	—	923	35.0+
Ewa Villages CDP -----	591	4.6	22.5	498	710	21.5	59	128	11.3	311	10.3	19.3	127	10.7
Halawa CDP -----	2 779	9.3	34.7	1 878	1 076	21.2	333	188	10.2	1 241	40.3	2.4	756	27.9
Hickam Housing CDP -----	5	—	—	—	—	—	5	100-	—	1 820	39.5	—	722	21.8
Iroquois Point CDP -----	4	—	—	4	1 375	27.5	—	—	—	1 170	42.4	—	779	27.5
Makakilo City CDP -----	2 192	14.0	13.1	1 661	1 268	26.6	97	183	10.0	786	61.6	—	971	33.5
Milliani Town CDP -----	6 820	15.1	3.3	5 479	1 293	25.3	188	180	10.4	1 956	56.3	.4	1 000+	30.8
Pearl City CDP -----	6 017	2.9	49.2	4 446	793	15.0	1 200	168	10.1	2 859	44.0	.7	753	30.3
Village Park CDP -----	1 706	20.5	—	1 525	1 584	32.6	39	169	10.0	332	76.8	—	1 000+	32.1
Waimalu CDP -----	6 662	13.6	6.5	3 649	1 290	23.8	421	170	10.9	3 710	56.5	1.3	882	29.4
Waipahu CDP -----	3 884	6.3	42.8	2 649	910	18.6	782	163	10.7	3 683	37.2	1.5	617	28.3
Waipio CDP -----	2 846	12.6	5.0	1 777	1 348	25.1	77	217	10.0	1 186	72.9	—	897	31.6
Waipio Acres CDP -----	951	14.3	27.8	496	1 154	28.2	152	158	10.0	838	71.2	.6	802	35.0+
Honolulu division -----	63 270	7.8	36.3	23 669	1 191	20.1	15 231	196	10.8	74 531	33.6	5.0	623	26.9
Aliamanu CDP -----	23	—	—	11	2 000+	35.0+	—	—	—	2 304	43.9	—	598	26.2
Fort Shafter CDP -----	12	—	—	—	—	—	12	100-	10.0	899	45.1	—	693	17.0
Honolulu CDP -----	63 235	7.8	36.3	23 658	1 190	20.1	15 219	196	10.8	71 328	33.1	5.2	623	26.9
Koolauloa division -----	2 325	15.2	16.5	1 600	963	24.1	426	153	11.7	2 650	38.8	4.9	625	26.8
Haulua CDP -----	447	15.0	23.3	296	979	21.9	95	128	10.0	413	36.6	4.8	717	33.5
Kaaawa CDP -----	267	12.4	19.5	178	1 348	27.1	57	167	12.7	171	53.8	2.9	698	33.3
Kahuku CDP -----	331	31.7	3.3	303	491	18.3	22	100-	10.0	228	11.0	32.5	157	16.8
Kawela Bay CDP -----	74	23.0	—	18	2 000	27.5								

Table 15. Homeowner and Renter Characteristics: 1990—Con.

[Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text]

State County County Subdivision Place	All owner-occupied housing units			Specified owner-occupied housing units						All renter-occupied housing units				
	Total	Percent with householder moved into unit—		With a mortgage			Not mortgaged			Percent with householder moved into unit—		Specified renter paying cash rent		
		1989 to March 1990	1969 or earlier	Total	Median selected monthly owner costs (dollars)	Median selected monthly owner costs as a percentage of household income in 1989	Total	Median selected monthly owner costs (dollars)	Median selected monthly owner costs as a percentage of household income in 1989	Total	1989 to March 1990	1969 or earlier	Median gross rent (dollars)	Median gross rent as a percentage of household income in 1989
Honolulu County—Con.														
Koolauapoko division—Con.														
Waimanalo Beach CDP	701	—	61.8	299	399	14.4	376	176	10.7	236	22.0	2.5	645	25.9
Wahiawa division	3 267	10.1	50.1	1 708	990	21.3	1 200	145	10.8	7 564	43.9	2.0	481	26.2
Schofield Barracks CDP	17	41.2	—	—	—	—	—	—	—	3 487	50.3	—	403	21.6
Wahiawa CDP	2 657	6.0	55.4	1 346	976	19.8	1 070	146	10.9	2 962	37.4	4.4	560	29.5
Wheeler AFB CDP	12	—	—	—	—	—	—	—	—	690	45.1	—	673	28.8
Whitmore Village CDP	581	28.4	28.4	362	1 029	29.0	130	144	10.6	235	37.9	3.4	606	24.7
Waialua division	1 642	4.1	33.7	959	806	20.2	581	130	10.3	1 826	33.8	9.3	595	25.4
Haleiwa CDP	261	—	44.4	103	625	22.0	134	173	10.0	509	24.6	11.6	421	23.4
Mokuleia CDP	158	17.7	—	93	1 750	27.4	10	275	10.0	466	57.5	1.5	734	27.9
Waialua CDP	700	4.7	48.9	354	826	18.2	346	120	10.0	519	28.3	11.8	509	24.6
Waianae division	4 879	10.1	21.3	3 134	690	18.0	970	152	11.6	4 538	37.9	4.5	602	30.1
Mali CDP	767	12.5	20.1	613	892	21.3	106	141	11.2	647	36.2	9.9	568	26.4
Makaha CDP	1 019	13.5	14.7	646	751	21.5	164	191	10.0	1 360	42.5	3.0	611	31.3
Makaha Valley CDP	124	70.2	—	11	1 750	35.0+	—	—	—	298	72.1	—	830	28.7
Nanakuli CDP	1 242	4.2	28.8	739	488	13.9	351	133	12.9	811	35.8	3.1	644	35.0+
Waianae CDP	1 311	7.8	17.5	905	559	16.8	234	151	10.9	872	31.8	5.8	519	29.7
Kalawao County	—	—	—	—	—	—	—	—	—	62	29.0	40.3	125	10.0
Kalawao division	—	—	—	—	—	—	—	—	—	62	29.0	40.3	125	10.0
Kauai County	9 582	9.6	27.8	5 246	828	21.2	3 313	152	10.9	6 713	34.9	6.9	618	24.1
Eleele-Kalaheo division	1 438	6.9	25.2	848	822	18.9	479	144	10.6	646	42.9	6.2	572	24.2
Elele CDP (pt.)	337	2.1	21.1	224	833	19.6	104	130	10.8	84	33.3	—	149	27.7
Hanapepe CDP (pt.)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Kalaheo CDP	783	9.7	24.1	471	809	19.7	235	152	10.4	369	40.4	3.3	682	23.3
Lawai CDP (pt.)	245	6.5	25.3	133	821	15.6	96	149	11.2	90	61.1	—	821	32.5
Omao CDP (pt.)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hanalei division	922	16.5	8.5	445	1 114	24.3	274	188	11.5	668	45.5	3.7	927	35.0+
Hanalei CDP	98	5.1	32.7	38	2 000+	28.5	41	179	13.2	57	33.3	10.5	742	35.0+
Kailiwiwai CDP	57	—	8.8	5	250	10.0	24	100+	13.1	120	38.3	7.5	864	23.0
Kilauea CDP	352	13.9	7.4	192	922	21.5	115	169	10.6	132	47.7	—	837	35.0+
Princeville CDP	305	26.9	—	158	1 353	25.6	60	267	13.0	220	52.3	—	1 000+	28.6
Kapaa division	1 224	12.2	29.2	690	778	24.1	440	147	11.1	895	33.9	2.0	657	28.1
Kapaa CDP (pt.)	1 224	12.2	29.2	690	778	24.1	440	147	11.1	895	33.9	2.0	657	28.1
Kaumakani-Hanapepe division	287	4.5	—	98	856	25.3	151	131	10.8	619	12.8	31.8	191	13.0
Elele CDP (pt.)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hanapepe CDP (pt.)	236	2.1	58.5	58	940	25.3	140	129	10.9	233	22.3	6.9	395	20.2
Kaumakani CDP	12	66.7	—	12	1 063	35.0+	—	—	—	224	12.1	29.5	145	10.9
Pakala Village CDP	12	—	—	7	750	27.5	5	125	10.0	162	—	71.0	142	10.0
Kekaha-Waimea division	955	8.0	38.2	570	665	17.7	329	149	11.1	786	23.9	6.9	410	23.2
Kekaha CDP	620	5.3	37.9	408	578	16.9	185	153	11.1	417	14.1	4.6	352	27.3
Waimea CDP	308	14.0	39.9	143	891	25.1	136	148	11.1	292	24.0	12.0	427	18.1
Koloa-Poipu division	985	8.2	27.0	457	804	19.7	422	147	10.6	635	40.2	3.9	664	25.7
Koloa CDP	290	2.8	40.7	89	684	16.8	168	142	11.8	223	26.5	9.0	389	22.4
Lawai CDP (pt.)	201	—	20.4	103	786	14.9	76	144	10.0	88	18.2	5.7	597	27.3
Omao CDP (pt.)	248	11.3	20.6	127	741	21.9	90	138	10.0	110	42.7	—	656	15.8
Poipu CDP	1 214	21.0	13.6	124	1 167	22.1	70	283	10.0	206	64.6	—	958	35.0+
Lihue division	1 064	5.8	37.1	526	790	16.9	376	169	10.6	929	39.2	7.2	718	21.8
Lihue CDP (pt.)	1 064	5.8	37.1	526	790	16.9	376	169	10.6	929	39.2	7.2	718	21.8
Niihau division	—	—	—	—	—	—	—	—	—	37	—	35.1	175	10.0
Puhi-Hanamaulu division	896	6.7	36.7	513	699	21.0	300	143	11.1	479	33.4	2.5	551	23.3
Hanamaulu CDP	624	1.9	47.0	286	578	18.7	260	142	11.3	261	22.2	4.6	580	26.4
Lihue CDP (pt.)	55	69.1	—	49	1 583	27.3	6	175	10.0	17	64.7	—	1 000+	28.9
Puhi CDP	206	4.9	15.0	178	771	21.7	23	125	10.0	89	33.7	—	524	12.5
Waialua-Anahola division	1 811	12.5	20.5	1 099	958	22.2	542	157	11.2	1 019	40.5	1.4	771	26.2
Anahola CDP	235	3.4	34.9	99	468	15.2	120	173	11.2	72	43.1	—	589	13.5
Kapaa CDP (pt.)	224	9.8	21.0	121	1 157	26.2	74	153	11.9	209	45.9	1.9	776	26.0
Waialua CDP	380	7.4	37.4	216	900	22.9	152	138	10.0	319	36.4	1.9	743	31.3
Waialua Homesteads CDP	867	18.7	5.5	620	1 043	23.4	142	176	12.9	371	38.3	—	842	33.5
Maui County	19 083	10.9	25.2	10 415	933	22.3	5 385	160	11.1	14 062	44.8	3.6	722	27.1
East Molokai division	894	6.2	28.2	548	464	22.3	292	156	10.8	509	45.8	1.4	399	29.5
Kaunakakai CDP	541	4.6	23.8	381	463	22.1	160	163	10.6	296	43.2	—	355	28.4
Haiku-Pauwela division	1 137	13.5	15.7	643	926	24.2	300	132	11.2	781	38.9	2.9	725	30.4
Haiku-Pauwela CDP	893	11.5	17.5	519	934	24.4	252	143	11.4	635	36.9	3.6	718	28.1
Hana division	342	5.3	20.8	119	456	18.4	172	119	10.9	248	21.8	7.3	414	35.0+
Hana CDP	125	—	29.6	62	445	20.0	63	118	10.0	48	43.8	—	654	35.0+
Kahului division	2 974	2.0	45.1	1 585	782	16.8	1 136	158	11.5	2 003	30.7	5.0	587	25.0
Kahului CDP (pt.)	2 974	2.0	45.1	1 585	782	16.8	1 136	158	11.5	2 003	30.7	5.0	587	25.0
Kihei division	2 513	22.8	3.7	1 254	1 296	27.8	212	211	13.0	2 375	63.8	—	863	30.5
Kihei CDP	1 961	21.4	4.3	1 055	1 295	27.6	184	216	12.9	2 048	63.5	—	863	30.6
Maalaea CDP	223	36.3	4.5	10	450	10.0	—	—	—	143	63.6	—	802	27.7
Wailea-Makena CDP (pt.)	320	22.8	—	189	1 327	30.4	28	185	14.0	184	67.9	—	948	34.8
Kula division	1 747	11.8	12.4	1 024	1 332	27.2	424	238	11.8	1 310	47.9	1.0	886	33.9
Wailea-Makena CDP (pt.)	528	13.8	1.1	308	1 628	30.4	120	274	13.2	514	46.1	—	1 000+	35.0+
Lahaina division	2 286	11.2	18.8	1 108	1 088	25.1	530	181	11.0	2 565	51.5	1.7	820	25.4
Kaanapali CDP	179	33.5	5.6	50	2 000+	33.4	11	275	10.0	77	24.7	—	731	21.8
Kapalua CDP	71	12.7	—	—	—	—	9	175	10.0	45	86.7	—	1 000+	15.6
Lahaina CDP	1 341	3.0	28.0	791	1 054	23.7	407	165	11.3	1 313	43.0	3.3	746	22.9
Napili-Honokowai CDP	688	21.2	6.4	260	1 025	24.9	103	247	10.0	1 104	63.1	—	869	30.1
Lanai division	430	30.0	50.5	181	734	19.3	242	142	10.6	368	41.3	16.3	265	12.6
Lanai City CDP	430	30.0	50.5	181	734	19.3	242	142	10.6	363	40.5	16.5	264	12.6
Makawao-Paia division	3 220	10.1	20.7	2 169	928	22.2	803	154	11.0	1 647	52.6	2.5	815	28.9
Haliimaile CDP	195	3.1	30.8	121	769	16.6	67	206	12.9	34	100.0	—	807	26.9
Makawao CDP	1 082	16.4	14.5	812	1 081	23.2	180	137	10.5	640	60.5	—	849	32.8
Paia CDP	471	5.7	28.5	283	684	18.1	157	127	11.0	221	44.8	3.2	715	31.5
Pukalani CDP	1 215	7.2	24.3	866	928	22.3	285	173	11.1	626	43.8	2.2	797	26.8
Puunene division	—	—	—	—	—	—	—	—	—	40	10.0	—	100	12.7
Kahului CDP (pt.)	—	—	—	—	—	—	—	—	—	40	10.0	—	100	12.7
Spreckelsville division	53	—	28.3											

Table 15. Homeowner and Renter Characteristics: 1990—Con.

[Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text]

State County County Subdivision Place	All owner-occupied housing units			Specified owner-occupied housing units						All renter-occupied housing units				
	Total	Percent with householder moved into unit—		With a mortgage			Not mortgaged			Total	Percent with householder moved into unit—		Specified renter paying cash rent	
		1989 to March 1990	1969 or earlier	Total	Median selected monthly owner costs (dollars)	Median selected monthly owner costs as a percentage of household income in 1989	Total	Median selected monthly owner costs (dollars)	Median selected monthly owner costs as a percentage of household income in 1989		1989 to March 1990	1969 or earlier	Median gross rent (dollars)	Median gross rent as a percentage of household income in 1989
Maui County—Con.														
Waihee-Waikapu division	487	13.6	31.0	282	963	21.0	145	108	10.3	191	19.4	8.4	550	23.2
Waihee-Waiehue CDP (pt.)	181	13.3	51.9	99	693	27.1	71	128	10.0	94	12.8	9.6	532	26.0
Waikapu CDP	152	5.3	33.6	94	650	14.9	37	100	10.0	71	26.8	9.9	546	19.4
Wailuku CDP (pt.)	91	37.4	—	71	1 910	23.8	8	250	27.5	14	42.9	—	1 000+	34.4
Wailuku division	2 588	6.2	41.6	1 296	942	19.7	988	150	10.3	1 745	28.4	7.3	563	24.0
Waihee-Waiehue CDP (pt.)	672	12.4	2.7	569	1 003	23.1	68	141	10.0	105	53.3	3.8	935	31.5
Wailuku CDP (pt.)	1 916	4.0	55.3	727	910	16.4	920	151	10.4	1 640	26.8	7.5	552	23.5
West Molokai division	412	17.2	23.1	182	481	16.3	115	139	12.6	249	22.1	23.7	396	24.7
Kualapuu CDP	391	16.9	24.3	182	481	16.3	108	135	12.9	113	29.2	27.4	481	28.6
Maunaloa CDP	—	—	—	—	—	—	—	—	—	124	8.1	22.6	381	23.3

Table 16. Homeowner and Renter Characteristics: 1990

[Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text]

State County Place and [In Selected States] County Subdivision	All owner-occupied housing units			Specified owner-occupied housing units						All renter-occupied housing units				
	Total	Percent with householder moved into unit—		With a mortgage			Not mortgaged			Percent with householder moved into unit—		Specified renter paying cash rent		
		1989 to March 1990	1969 or earlier	Total	Median selected monthly owner costs (dollars)	Median selected monthly owner costs as a percentage of household income in 1989	Total	Median selected monthly owner costs (dollars)	Median selected monthly owner costs as a percentage of household income in 1989	1989 to March 1990	1969 or earlier	Median gross rent (dollars)	Median gross rent as a percentage of household income in 1989	
The State -----	191 894	9.7	29.1	102 601	1 008	21.4	44 909	170	10.8	164 373	38.9	4.1	650	27.4
COUNTY														
Hawaii County -----	25 336	11.1	24.0	12 968	669	20.5	9 280	130	10.9	16 125	42.2	4.5	490	27.0
Honolulu County -----	137 893	9.2	30.7	73 972	1 121	21.5	26 931	185	10.7	127 411	38.1	4.0	663	27.6
Kalawao County -----	—	—	—	—	—	—	—	—	—	62	29.0	40.3	125	10.0
Kauai County -----	9 582	9.6	27.8	5 246	828	21.2	3 313	152	10.9	6 713	34.9	6.9	618	24.1
Maui County -----	19 083	10.9	25.2	10 415	933	22.3	5 385	160	11.1	14 062	44.8	3.6	722	27.1
PLACE AND COUNTY SUBDIVISION														
Ahiimanu CDP, Honolulu County -----	1 873	11.6	9.0	1 331	1 184	23.2	178	224	10.4	614	43.0	2.0	904	31.4
Aiea CDP, Honolulu County -----	1 931	4.2	58.5	1 042	989	15.7	717	180	10.2	697	31.7	3.4	882	25.1
Aliamanu CDP, Honolulu County -----	23	—	—	11	2 000+	35.0+	—	—	—	2 304	43.9	—	598	26.2
Anahola CDP, Kauai County -----	235	3.4	34.9	99	468	15.2	120	173	11.2	72	43.1	—	589	13.5
Barbers Point Housing CDP, Honolulu County -----	22	100.0	—	—	—	—	22	100—	—	910	45.8	—	664	31.4
Captain Cook CDP, Hawaii County -----	546	12.1	31.5	316	886	18.5	155	134	10.3	346	41.0	4.3	485	26.4
Elele CDP, Kauai County -----	337	2.1	21.1	224	833	19.6	104	130	10.8	84	33.3	—	149	27.7
Ewa Beach CDP, Honolulu County -----	2 311	5.1	16.4	1 759	910	19.9	206	149	12.8	1 030	34.1	.5	755	28.0
Ewa Gentry CDP, Honolulu County -----	573	79.1	—	280	1 393	30.7	—	—	—	149	96.6	—	923	35.0+
Ewa Villages CDP, Honolulu County -----	591	4.6	22.5	498	710	21.5	59	128	11.3	311	10.3	19.3	127	10.7
Fort Shafter CDP, Honolulu County -----	12	—	—	—	—	—	12	100—	10.0	899	45.1	—	693	17.0
Haiku-Pauwela CDP, Maui County -----	893	11.5	17.5	519	934	24.4	252	143	11.4	635	36.9	3.6	718	28.1
Halaiala CDP, Hawaii County -----	94	—	47.9	65	418	18.6	29	100—	13.2	38	26.3	—	525	14.0
Halauala CDP, Honolulu County -----	2 779	9.3	34.7	1 878	1 076	21.2	333	188	10.2	1 241	40.3	2.4	756	27.9
Haleiwa CDP, Honolulu County -----	261	—	44.4	103	625	22.0	134	173	10.0	509	24.6	11.6	421	23.4
Haliimaile CDP, Maui County -----	195	3.1	30.8	121	769	16.6	67	206	12.9	34	100.0	—	807	26.9
Hana CDP, Maui County -----	125	—	29.6	62	445	20.0	63	118	10.0	48	43.8	—	654	35.0+
Hanalei CDP, Kauai County -----	98	5.1	32.7	38	2 000+	28.5	41	179	13.2	57	33.3	10.5	742	35.0+
Hanamaulu CDP, Kauai County -----	624	1.9	47.0	286	578	18.7	260	142	11.3	261	22.2	4.6	580	26.4
Hanapepe CDP, Kauai County -----	236	2.1	58.5	58	940	25.3	140	129	10.9	233	22.3	6.9	395	20.2
Hauula CDP, Honolulu County -----	447	15.0	23.3	296	979	21.9	95	128	10.0	413	36.6	4.8	717	33.5
Hawaiian Beaches CDP, Hawaii County -----	647	8.5	2.2	425	481	22.2	165	118	12.6	238	60.5	—	530	35.0+
Hawaiian Ocean View CDP, Hawaii County -----	320	31.9	2.8	143	479	27.5	165	100—	10.0	94	72.3	—	365	27.5
Hawaiian Paradise Park CDP, Hawaii County -----	820	22.6	4.0	458	600	17.9	287	105	10.0	295	58.0	—	553	35.0+
Hawi CDP, Hawaii County -----	173	2.3	46.8	72	677	20.4	95	118	10.0	106	35.8	3.8	396	27.9
Heeia CDP, Honolulu County -----	1 373	4.4	26.6	1 127	1 285	19.8	116	192	10.0	157	46.5	—	1 000+	31.9
Hickam Housing CDP, Honolulu County -----	5	—	—	—	—	—	5	100—	—	1 820	39.5	—	722	21.8
Hilo CDP, Hawaii County -----	8 036	5.7	35.2	4 525	693	17.8	2 782	136	10.7	5 291	37.4	4.8	417	27.5
Holualoa CDP, Hawaii County -----	875	21.0	10.3	461	956	23.6	287	236	12.1	660	45.0	1.7	729	23.7
Honalo CDP, Hawaii County -----	289	9.3	40.1	97	1 049	26.3	129	170	10.0	377	46.9	1.6	755	32.8
Honouliuli CDP, Honolulu County -----	412	5.6	21.1	155	739	25.7	187	169	10.9	408	47.5	4.4	536	30.0
Honokaa CDP, Hawaii County -----	495	4.8	44.4	244	557	17.4	234	127	11.1	296	22.6	3.7	402	26.0
Honolulu CDP, Honolulu County -----	63 235	7.8	36.3	23 658	1 190	20.1	15 219	196	10.8	71 328	33.1	5.2	623	26.9
Honouliuli CDP, Hawaii County -----	114	—	56.1	43	450	16.5	71	104	10.0	74	29.7	—	419	24.5
Iroquois Point CDP, Honolulu County -----	4	—	—	4	1 375	27.5	—	—	—	1 170	42.4	—	779	27.5
Kaaawa CDP, Honolulu County -----	267	12.4	19.5	178	1 348	27.1	57	167	12.7	171	53.8	2.9	698	33.3
Kaanapali CDP, Maui County -----	179	33.5	5.6	50	2 000+	33.4	11	275	10.0	77	24.7	—	731	21.8
Kahalua CDP, Honolulu County -----	531	4.0	34.8	367	988	23.0	106	190	11.4	393	33.1	10.4	716	23.0
Kahalua-Keaouhou CDP, Hawaii County -----	483	15.1	3.7	171	850	16.4	100	215	11.7	302	45.0	4.6	850	35.0+
Kahuku CDP, Honolulu County -----	331	31.7	3.3	303	491	18.3	22	100—	10.0	228	11.0	32.5	157	16.8
Kahului CDP, Maui County -----	2 974	2.0	45.1	1 585	782	16.8	1 136	158	11.5	2 043	30.3	4.9	582	24.8
Kailua CDP, Hawaii County -----	1 407	16.1	4.6	882	902	22.5	181	185	11.8	1 658	48.3	2.3	597	29.6
Kailua CDP, Honolulu County -----	8 294	8.9	31.2	5 648	1 245	22.6	1 668	197	10.6	3 549	51.6	1.7	883	31.0
Kalaheo CDP, Kauai County -----	1 783	9.7	24.1	471	809	19.7	235	152	10.4	369	40.4	3.3	682	23.3
Kalaooa CDP, Hawaii County -----	1 131	14.5	1.4	804	1 046	26.4	219	210	10.0	417	56.6	—	946	28.1
Kalihiwai CDP, Kauai County -----	57	—	8.8	5	250	10.0	24	100—	13.1	120	38.3	7.5	864	23.0
Kaneohe CDP, Honolulu County -----	7 452	8.7	36.0	4 823	1 032	21.0	1 300	180	10.6	3 158	42.8	2.9	845	30.2
Kaneohe Station CDP, Honolulu County -----	—	—	—	—	—	—	—	—	—	2 014	47.6	—	492	25.8
Kapaa CDP, Kauai County -----	1 448	11.8	27.9	811	820	24.2	514	147	11.2	1 104	36.1	2.0	671	27.8
Kapaa CDP, Hawaii County -----	274	5.1	71.9	58	629	15.7	186	100—	10.0	75	62.7	—	507	26.1
Kapalua CDP, Maui County -----	71	12.7	—	—	—	—	9	175	10.0	45	86.7	—	1 000+	15.6
Kaumakani CDP, Kauai County -----	12	66.7	—	12	1 063	35.0+	—	—	—	224	12.1	29.5	145	10.9
Kaunakakai CDP, Maui County -----	541	4.6	23.8	381	463	22.1	160	163	10.6	296	43.2	—	355	28.4
Kawela Bay CDP, Honolulu County -----	74	23.0	—	18	2 000	27.5	6	125	10.0	101	43.6	—	754	28.2
Keau CDP, Hawaii County -----	392	14.8	32.4	98	636	22.1	286	121	11.2	134	35.8	6.7	381	31.9
Kealahou CDP, Hawaii County -----	227	9.7	42.3	115	809	18.9	91	143	10.0	293	18.1	2.4	299	22.3
Kekaha CDP, Kauai County -----	620	5.3	37.9	408	578	16.9	185	153	11.1	417	14.1	4.6	352	27.3
Kihei CDP, Maui County -----	1 961	21.4	4.3	1 055	1 295	27.6	184	216	12.9	2 048	63.5	.2	863	30.6
Kilauea CDP, Kauai County -----	352	13.9	7.4	192	922	21.5	115	169	10.6	132	47.7	—	837	35.0+
Koloa CDP, Kauai County -----	290	2.8	40.7	89	684	16.8	168	142	11.8	223	26.5	9.0	389	22.4
Kualapuu CDP, Maui County -----	391	16.9	24.3	182	481	16.3	108	135	12.9	113	29.2	27.4	481	28.6
Kukuihaele CDP, Hawaii County -----	49	—	89.8	8	350	10.0	41	128	10.0	16	31.3	43.8	225	10.0
Kurtistown CDP, Hawaii County -----	223	6.7	39.5	80	521	16.0	75	153	10.6	69	26.1	18.8	335	12.8
Lahaina CDP, Maui County -----	1 341	3.0	28.0	791	1 054	23.7	407	165	11.3	1 313	43.0	3.3	746	22.9
Lae CDP, Honolulu County -----	335	11.9	25.1	236	976	19.8	59	223	11.8	683	44.1	—	513	26.3
Lanai City CDP, Maui County -----	430	30.0	50.5	181	734	19.3	242	142	10.6	363	40.5	16.5	264	12.6
Laupahoehoe CDP, Hawaii County -----	87	—	20.7	38	417	18.1	49	137	10.0	61	9.8	24.6	244	10.0
Lawai CDP, Kauai County -----	446	3.6	23.1	236	808	15.3	172	146	10.6	178	39.9	2.8	798	28.5
Lihue CDP, Kauai County -----	1 119	8.9	35.3	575	874	18.2	382	170	10.6	946	39.6	7.1	726	22.1
Maalaea CDP, Maui County -----	223	36.3	4.5	10	450	10.0	—	—	—	143	63.6	—	802	27.7
Mali CDP, Honolulu County -----	767	12.5</												

Table 16. Homeowner and Renter Characteristics: 1990—Con.

[Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text]

State County Place and [In Selected States] County Subdivision	All owner-occupied housing units			Specified owner-occupied housing units						All renter-occupied housing units				
	Total	Percent with house- holder moved into unit—		With a mortgage			Not mortgaged			Percent with house- holder moved into unit—		Specified renter paying cash rent		
		1989 to March 1990	1969 or earlier	Total	Median selected monthly owner costs (dollars)	Median selected monthly owner costs as a percent- age of household income in 1989	Total	Median selected monthly owner costs (dollars)	Median selected monthly owner costs as a percent- age of household income in 1989	Total	1989 to March 1990	1969 or earlier	Median gross rent (dollars)	Median gross rent as a per- centage of household income in 1989
PLACE AND COUNTY SUBDIVISION— Con.														
Naalehu CDP, Hawaii County -----	254	—	26.8	98	438	17.2	138	129	11.8	81	12.3	8.6	344	32.5
Nanakuli CDP, Honolulu County -----	1 242	4.2	28.8	739	488	13.9	351	133	12.9	811	35.8	3.1	644	35.0+
Napili-Honokowai CDP, Maui County -----	688	21.2	6.4	260	1 025	24.9	103	247	10.0	1 104	63.1	—	869	30.1
Omao CDP, Kauai County -----	248	11.3	20.6	127	741	21.9	90	138	10.0	110	42.7	—	656	15.8
Paaui CDP, Hawaii County -----	11	—	63.6	—	—	—	11	161	10.0	184	8.2	42.9	135	10.9
Pahala CDP, Hawaii County -----	302	—	33.1	145	395	22.8	148	137	11.5	156	23.1	3.8	220	17.7
Paho CDP, Hawaii County -----	215	4.7	51.2	106	607	22.5	109	119	11.0	136	38.2	5.1	308	31.0
Paia CDP, Maui County -----	471	5.7	28.5	283	684	18.1	157	127	11.0	221	44.8	3.2	715	31.5
Pakala Village CDP, Kauai County -----	12	—	—	7	750	27.5	5	125	10.0	162	—	71.0	142	10.0
Papaikou CDP, Hawaii County -----	433	8.8	53.1	195	667	20.7	198	129	10.0	132	22.7	3.0	438	23.8
Paukaa CDP, Hawaii County -----	164	6.1	47.0	78	760	25.5	80	100—	10.0	27	55.6	29.6	589	35.0+
Pearl City CDP, Honolulu County -----	6 017	2.9	49.2	4 446	793	15.0	1 200	168	10.1	2 859	44.0	.7	753	30.3
Pepeekeo CDP, Hawaii County -----	367	1.4	23.4	236	425	17.6	124	130	10.9	188	40.4	2.1	178	26.7
Poipu CDP, Kauai County -----	214	21.0	13.6	124	1 167	22.1	70	283	10.0	206	64.6	—	958	35.0+
Princeville CDP, Kauai County -----	305	26.9	—	158	1 353	25.6	60	267	13.0	220	52.3	—	1 000+	28.6
Puako CDP, Hawaii County -----	62	12.9	—	46	1 900	28.8	9	125	10.0	128	30.5	—	796	35.0+
Puhi CDP, Kauai County -----	206	4.9	15.0	178	771	21.7	23	125	10.0	89	33.7	—	524	12.5
Pukalani CDP, Maui County -----	1 215	7.2	24.3	866	928	22.3	285	173	11.1	626	43.8	2.2	797	26.8
Punaluu CDP, Honolulu County -----	75	—	—	29	891	35.0+	10	175	10.0	217	46.5	—	554	23.5
Pupukea CDP, Honolulu County -----	626	10.9	18.8	420	1 411	29.1	145	176	13.6	671	41.0	—	816	26.7
Schofield Barracks CDP, Honolulu County ---	17	41.2	—	—	—	—	—	—	—	3 487	50.3	—	403	21.6
Village Park CDP, Honolulu County -----	1 706	20.5	—	1 525	1 584	32.6	39	169	10.0	332	76.8	—	1 000+	32.1
Volcano CDP, Hawaii County -----	360	21.1	10.3	150	406	14.2	138	128	12.7	202	51.5	—	470	21.2
Wahiawa CDP, Honolulu County -----	2 657	6.0	55.4	1 346	976	19.8	1 070	146	10.9	2 962	37.4	4.4	560	29.5
Waialua CDP, Honolulu County -----	700	4.7	48.9	354	826	18.2	346	120	10.0	519	28.3	11.8	509	24.6
Waianae CDP, Honolulu County -----	1 311	7.8	17.5	905	559	16.8	234	151	10.9	872	31.8	5.8	519	29.7
Waihee-Waihehu CDP, Maui County -----	853	12.5	13.1	668	982	23.7	139	136	10.0	199	34.2	6.5	803	28.9
Waikane CDP, Honolulu County -----	97	8.2	43.3	23	1 304	29.6	44	100—	10.0	67	34.3	14.9	325	15.2
Waikapu CDP, Maui County -----	152	5.3	33.6	94	650	14.9	37	100—	10.0	71	26.8	9.9	546	19.4
Waikoloa Village CDP, Hawaii County -----	358	36.3	—	220	1 317	25.0	72	175	11.3	508	82.1	—	895	25.5
Wailea-Makena CDP, Maui County -----	848	17.2	.7	497	1 481	30.4	148	267	13.3	698	51.9	—	1 000+	35.0+
Wailua CDP, Kauai County -----	380	7.4	37.4	216	900	22.9	152	138	10.0	319	36.4	1.9	743	31.3
Wailua Homesteads CDP, Kauai County ----	867	18.7	5.5	620	1 043	23.4	142	176	12.9	371	38.3	—	842	33.5
Wailuku CDP, Maui County -----	2 007	5.5	52.8	798	957	17.1	928	152	10.4	1 654	26.9	7.4	556	23.7
Waimalu CDP, Honolulu County -----	6 662	13.6	6.5	3 649	1 290	23.8	421	170	10.9	3 710	56.5	1.3	882	29.4
Waimanalo CDP, Honolulu County -----	506	6.3	19.8	360	723	15.5	78	189	11.6	311	7.4	1.9	443	23.7
Waimanalo Beach CDP, Honolulu County ----	701	—	61.8	299	399	14.4	376	176	10.7	236	22.0	2.5	645	25.9
Waimea CDP, Hawaii County -----	1 144	9.1	15.1	711	744	23.0	299	185	10.9	743	47.1	4.0	757	27.2
Waimea CDP, Kauai County -----	308	14.0	39.9	143	891	25.1	136	148	11.1	292	24.0	12.0	427	18.1
Wainaku CDP, Hawaii County -----	267	9.4	49.1	92	575	17.4	142	103	10.0	135	17.8	12.6	438	19.3
Waipahu CDP, Honolulu County -----	3 884	6.3	42.8	2 649	910	18.6	782	163	10.7	3 683	37.2	1.5	617	28.3
Waipio CDP, Honolulu County -----	2 846	12.6	5.0	1 777	1 348	25.1	77	217	10.0	1 186	72.9	—	897	31.6
Waipio Acres CDP, Honolulu County -----	951	14.3	27.8	496	1 154	28.2	152	158	10.0	838	71.2	.6	802	35.0+
Wheeler AFB CDP, Honolulu County -----	12	—	—	—	—	—	—	—	—	690	45.1	—	673	28.8
Whitmore Village CDP, Honolulu County ----	581	28.4	28.4	362	1 029	29.0	130	144	10.6	235	37.9	3.4	606	24.7

Table 17. **Selected Social and Economic Characteristics for American Indian and Alaska Native Areas: 1990**

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

Table 18. **Selected Housing Characteristics for American Indian and Alaska Native Areas: 1990**

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

Table 19. Percent in Sample, Standard Error, and Confidence Bounds for Population Characteristics: 1990

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

State County County Subdivision Place	Persons		Per capita income in 1989 (dollars) —Standard error	Median income in 1989 (dollars)					
	100-percent count	Percent in sample		Household		Family		Nonfamily household	
				90-percent confidence bounds		90-percent confidence bounds		90-percent confidence bounds	
				Lower	Upper	Lower	Upper	Lower	Upper
The State -----	1 108 229	14.1	52	38 545	39 113	42 852	43 499	24 001	24 750
Hawaii County -----	120 317	14.2	141	29 017	30 307	32 433	33 957	16 585	18 424
Hilo division -----	39 537	15.5	233	28 820	31 012	34 337	36 555	14 128	16 655
Hilo CDP -----	37 808	15.5	240	28 885	31 063	34 362	36 672	14 335	16 962
Mountain View CDP (pt.) -----	—	—	—	—	—	—	—	—	—
Wainaku CDP -----	1 243	14.9	925	20 524	34 424	25 043	38 573	7 684	16 574
Honokaa-Kukuihaele division -----	3 681	15.2	623	28 867	33 373	31 343	34 845	10 208	19 868
Honokaa CDP (pt.) -----	2 186	16.1	606	26 192	33 252	30 903	35 579	7 956	16 764
Kukuihaele CDP -----	316	10.8	1 366	16 883	31 918	26 513	32 423	—	17 500
Kau division -----	4 438	14.0	644	20 654	25 501	22 990	27 691	10 976	17 075
Hawaiian Ocean View CDP -----	969	10.4	2 239	17 021	26 638	17 197	27 446	10 973	33 446
Naalehu CDP -----	1 027	15.2	1 014	18 458	26 501	20 326	27 375	4 535	11 820
Pahala CDP -----	1 520	15.7	633	17 004	23 835	21 279	28 891	7 050	12 771
Volcano CDP (pt.) -----	42	35.7	12 264	4 276	197 378	33 584	234 954	—	5 000
Keau-Mountain View division -----	14 079	13.8	329	21 408	24 814	24 498	27 474	11 836	15 589
Hawaiian Paradise Park CDP -----	3 389	13.1	646	21 419	27 146	20 129	26 798	11 816	23 093
Keau CDP -----	1 584	15.9	1 252	17 845	32 926	24 681	37 322	5 028	7 780
Kurtistown CDP -----	910	13.0	1 055	18 430	34 555	30 781	41 013	7 588	17 226
Mountain View CDP (pt.) -----	3 075	14.4	612	18 794	25 842	21 242	28 136	7 461	15 990
Volcano CDP (pt.) -----	1 474	12.4	1 403	21 393	31 616	22 140	34 624	17 793	27 502
North Hilo division -----	1 541	12.2	787	22 589	31 630	25 482	32 677	6 312	23 680
Laupahoehoe CDP -----	508	14.2	1 618	18 898	31 029	20 240	35 217	2 523	45 811
North Kohala division -----	4 291	16.5	560	28 305	34 124	31 243	37 236	12 663	18 828
Halaula CDP -----	496	15.3	1 466	23 639	39 867	21 159	44 110	6 130	39 028
Hawi CDP -----	924	16.5	942	25 675	37 546	30 572	42 454	7 186	20 868
Kapaau CDP -----	1 083	16.5	682	23 803	35 321	24 376	35 556	10 644	19 232
North Kona division -----	22 284	12.5	433	33 425	36 889	37 083	41 119	22 755	26 198
Holualoa CDP -----	3 834	10.2	1 229	32 331	43 174	41 554	47 520	19 844	30 550
Honalo CDP -----	1 926	14.2	1 199	26 724	33 287	25 527	37 429	21 816	31 129
Kahaluu-Keaouhou CDP -----	1 990	13.5	1 659	34 770	44 315	37 615	54 335	18 621	36 638
Kailua CDP -----	9 126	12.3	600	28 136	32 994	33 137	37 414	20 465	24 789
Kalaoa CDP -----	4 490	13.9	1 017	40 180	44 881	40 019	44 540	24 057	43 352
Kealakekua CDP (pt.) -----	208	9.1	2 835	13 062	82 439	13 983	86 550	—	10 000
Paauhau-Paauilo division -----	1 864	12.2	873	22 485	30 278	25 590	32 441	5 513	16 421
Honokaa CDP (pt.) -----	—	—	—	—	—	—	—	—	—
Paauilo CDP -----	620	11.8	1 408	21 609	31 493	23 456	40 468	1 997	64 218
Pahoa-Kalapana division -----	6 702	13.8	384	16 115	20 704	16 791	21 303	8 315	13 207
Hawaiian Beaches CDP -----	2 846	14.6	487	15 857	22 266	14 832	23 064	6 607	16 465
Pahoa CDP -----	1 027	17.3	1 053	16 708	27 455	19 609	31 632	5 487	12 087
Papaikou-Wailea division -----	5 102	15.5	553	21 602	26 438	24 371	28 518	7 973	15 927
Hononu CDP -----	532	15.6	1 095	16 772	28 626	17 231	27 993	—	40 000
Papaikou CDP -----	1 634	14.4	831	22 766	31 756	23 663	35 115	11 255	28 650
Paukaa CDP -----	495	15.4	3 735	28 823	52 684	29 591	56 156	5 684	64 286
Pepeekeo CDP -----	1 813	16.1	603	15 100	18 940	16 751	25 146	3 934	6 800
South Kohala division -----	9 140	12.9	616	36 632	41 559	40 052	44 921	27 289	35 470
Puako CDP -----	397	12.1	3 796	24 648	48 485	30 132	52 261	15 214	47 690
Waikoloa Village CDP -----	2 248	10.6	1 297	40 489	51 362	40 617	51 314	35 159	63 195
Waimea CDP -----	5 972	14.2	731	34 230	40 969	36 397	44 689	17 847	32 967
South Kona division -----	7 658	14.2	543	29 685	32 941	32 828	38 655	12 208	18 836
Captain Cook CDP -----	2 595	14.6	1 074	33 504	43 062	38 334	44 481	14 226	22 314
Honaunau-Napoopoo CDP -----	2 373	14.9	688	22 245	31 994	27 403	34 653	10 680	20 755
Kealakekua CDP (pt.) -----	1 245	12.5	1 651	23 085	32 458	25 771	55 652	11 424	26 568
Honolulu County -----	836 231	14.1	61	40 313	40 848	44 956	45 668	25 310	26 060
Ewa division -----	230 189	14.3	94	46 641	47 841	48 677	50 044	31 994	34 363
Aiea CDP -----	8 906	16.5	559	51 995	58 848	54 070	60 853	21 192	37 121
Barbers Point Housing CDP -----	2 218	13.7	448	22 341	25 433	22 072	25 205	—	20 000
Ewa Beach CDP -----	14 315	13.6	291	42 747	48 552	44 161	50 367	16 997	26 137
Ewa Gentry CDP -----	1 992	12.2	1 143	41 057	50 273	45 468	53 014	29 452	41 228
Ewa Villages CDP -----	3 780	15.4	477	36 506	44 175	39 573	47 245	7 568	14 215
Halawa CDP -----	13 408	15.8	415	46 216	50 251	47 548	51 926	32 064	39 464
Hickam Housing CDP -----	6 553	16.2	307	30 084	33 181	30 019	32 947	25 705	55 256
Iroquois Point CDP -----	4 188	16.1	268	27 689	31 430	27 526	31 449	—	37 500
Makakilo City CDP -----	9 828	13.3	413	47 846	52 114	48 789	54 039	40 117	46 274
Mililani Town CDP -----	29 359	14.4	244	54 027	56 465	55 617	58 048	36 842	41 522
Pearl City CDP -----	30 993	14.9	256	49 075	52 328	51 337	54 541	19 594	25 421
Village Park CDP -----	7 407	15.9	406	53 912	58 239	54 795	59 169	33 038	53 141
Waimalu CDP -----	29 967	13.5	337	50 769	53 281	54 863	57 956	34 036	37 606
Waipahu CDP -----	31 435	13.4	254	36 520	40 405	38 827	42 263	15 385	19 909
Waipio CDP -----	11 812	11.5	434	50 438	53 277	52 289	55 785	35 999	43 161
Waipio Acres CDP -----	5 304	14.7	425	32 233	38 492	31 138	39 150	25 569	36 408
Honolulu division -----	377 059	13.8	107	36 466	37 174	43 552	44 733	23 676	24 692
Aliamanu CDP -----	8 835	10.8	231	24 306	27 366	24 196	27 261	—	—
Fort Shafter CDP -----	2 952	13.7	690	28 077	34 019	28 259	34 378	—	27 500
Honolulu CDP -----	365 272	13.9	110	36 826	37 575	44 649	45 786	23 671	24 684
Koolauloa division -----	18 443	13.3	351	33 598	37 162	36 003	39 369	21 579	26 162
Hauula CDP -----	3 479	14.6	779	31 021	39 149	31 891	41 112	10 111	26 917
Kaaawa CDP -----	1 138	16.8	1 236	35 875	44 002	36 934	54 186	11 032	31 027
Kahuku CDP -----	2 063	11.3	720	22 418	34 976	23 522	39 002	3 873	14 411
Kawela Bay CDP -----	366	11.2	3 052	25 339	61 184	30 334	75 105	22 574	44 566
Laie CDP -----	5 577	15.0	455	26 700	38 611	26 858	39 350	10 465	28 991
Punahoa CDP -----	672	11.2	3 888	25 840	36 691	25 337	74 595	22 314	34 374
Pupukea CDP -----	4 111	10.8	966	34 350	44 147	37 517	48 203	23 380	35 204
Koolaupoko division -----	117 694	14.8	154	49 826	51 521	51 325	53 134	30 413	33 189
Ahuimanu CDP -----	8 387	12.6	615	52 105	58 453	52 901	60 038	36 307	47 293
Heeia CDP -----	5 010	15.3	958	64 386	73 165	65 988	74 452	35 753	57 696
Kahaluu CDP -----	3 068	15.4	908	39 059	48 551	38 243	48 712	30 789	50 070
Kailua CDP -----	36 818	15.7	298	53 560	56 708	56 028	59 147	28 442	33 501
Kaneohe CDP -----	35 448	15.1	242	48 345	51 016	49 827	52 469	27 295	32 006
Kaneohe Station CDP -----	11 662	11.7	168	25 518	28 178	24 903	27 815	—	30 000
Maunawili CDP -----	4 847	16.3	837	63 076	70 583	65 002	73 696	29 016	49 173
Waikane CDP -----	717	14.8	1 900	23 663	51 349	22 280	50 666	1 160	172 490
Waimanalo CDP -----	3 508	15.1	786	38 164	44 923	40 630	46 063	8 027	28 532
Waimanalo Beach CDP -----	4 185	16.4	640	39 020	49 705	42 773	51 842	12 499	36 786
Wahiawa division -----	43 886	14.7	169	28 544	30 512	29 401	31 217	14 371	18 348
Schofield Barracks CDP -----	19 597	14.9	139	24 331	26 680	24 307	26 628	10 369	29 263
Wahiawa CDP -----	17 386	13.9	383	31 467	35 322	34 450	38 025	13 749	18 230
Wheeler AFB CDP -----	2 600	15.8	376	24 015	27 763	24 130	27 968	—	17 500
Whitmore Village CDP -----	3 373	16.4	467	36 993	45 032	36 214	45 679	16 349	46 062

Table 20. Percent in Sample, Standard Error, and Confidence Bounds for Population Characteristics: 1990

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

State County Place and [In Selected States] County Subdivision	Persons		Per capita income in 1989 (dollars) —Standard error	Median income in 1989 (dollars)						
	100-percent count	Percent in sample		Household		Family		Nonfamily household		
				90-percent confidence bounds		90-percent confidence bounds		90-percent confidence bounds		
				Lower	Upper	Lower	Upper	Lower	Upper	
The State	1 108 229	14.1	52	38 545	39 113	42 852	43 499	24 001	24 750	
COUNTY										
Hawaii County	120 317	14.2	141	29 017	30 307	32 433	33 957	16 585	18 424	
Honolulu County	836 231	14.1	61	40 313	40 848	44 956	45 668	25 310	26 060	
Kalawao County	130	14.6	3 140	3 280	20 940	—	75 000	2 344	12 813	
Kauai County	51 177	13.9	224	36 388	38 800	40 140	42 058	19 556	21 931	
Maui County	100 374	13.6	168	38 025	39 517	41 314	43 155	23 878	25 909	
PLACE AND COUNTY SUBDIVISION										
Ahuimanu CDP, Honolulu County	8 387	12.6	615	52 105	58 453	52 901	60 038	36 307	47 293	
Aiea CDP, Honolulu County	8 906	16.5	559	51 995	58 848	54 070	60 853	21 192	37 121	
Aliamanu CDP, Honolulu County	8 835	10.8	231	24 306	27 366	24 196	27 261	—	—	
Anahola CDP, Kauai County	1 181	15.7	1 772	23 684	48 509	38 552	60 835	10 897	36 118	
Barbers Point Housing CDP, Honolulu County	2 218	13.7	448	22 341	25 433	22 072	25 205	—	20 000	
Captain Cook CDP, Hawaii County	2 595	14.6	1 074	33 504	43 062	38 334	44 481	14 226	22 314	
Eleele CDP, Kauai County	1 489	15.6	1 093	28 651	40 037	33 949	44 703	5 252	15 555	
Ewa Beach CDP, Honolulu County	14 315	13.6	291	42 747	48 552	44 161	50 367	16 997	26 137	
Ewa Gentry CDP, Honolulu County	1 992	12.2	1 143	41 057	50 273	45 468	53 014	29 452	41 228	
Ewa Villages CDP, Honolulu County	3 780	15.4	477	36 506	44 175	39 573	47 245	7 568	14 215	
Fort Shafter CDP, Honolulu County	2 952	13.7	690	28 077	34 019	28 259	34 378	—	27 500	
Haiku-Pauwela CDP, Maui County	4 509	13.2	805	35 215	38 794	36 299	40 867	19 121	32 638	
Halaupaia CDP, Hawaii County	496	15.3	1 466	23 639	39 867	21 159	44 110	6 130	39 028	
Halawa CDP, Honolulu County	13 408	15.8	415	46 216	50 251	47 548	51 926	32 064	39 464	
Haleiwa CDP, Honolulu County	2 442	14.9	658	26 588	37 654	31 606	39 247	4 928	20 514	
Haliimaile CDP, Maui County	841	11.7	1 365	32 560	41 691	27 687	41 320	25 013	59 978	
Hana CDP, Maui County	683	11.9	1 180	22 610	39 726	20 826	47 714	11 205	38 795	
Hanalei CDP, Kauai County	461	15.8	2 972	17 557	37 277	34 194	77 872	11 343	17 356	
Hanamaulu CDP, Kauai County	3 611	15.3	468	29 769	42 056	32 560	42 049	8 126	16 800	
Hanapepe CDP, Kauai County	1 395	14.3	773	25 338	32 238	29 271	40 839	10 493	21 006	
Haulua CDP, Honolulu County	3 479	14.6	779	31 021	39 149	31 891	41 112	10 111	26 917	
Hawaiian Beaches CDP, Hawaii County	2 846	14.6	487	15 857	22 266	14 832	23 064	6 607	16 465	
Hawaiian Ocean View CDP, Hawaii County	969	10.4	2 239	17 021	26 638	17 197	27 446	10 973	33 446	
Hawaiian Paradise Park CDP, Hawaii County	3 389	13.1	646	21 419	27 146	20 129	26 798	11 816	23 093	
Hawi CDP, Hawaii County	924	16.5	942	25 675	37 546	30 572	42 454	7 186	20 868	
Heeia CDP, Honolulu County	5 010	15.3	958	64 386	73 165	65 988	74 452	35 753	57 696	
Hickam Housing CDP, Honolulu County	6 553	16.2	307	30 084	33 181	30 019	32 947	25 705	55 256	
Hilo CDP, Hawaii County	37 808	15.5	240	28 885	31 063	34 362	36 672	14 335	16 962	
Holualoa CDP, Hawaii County	3 834	10.2	1 229	32 331	43 174	41 554	47 420	19 844	30 550	
Honalo CDP, Hawaii County	1 926	14.2	1 199	26 724	33 287	25 527	37 529	21 816	31 129	
Honaunau-Napoopoo CDP, Hawaii County	2 373	14.9	688	22 245	31 994	27 403	34 653	10 680	20 755	
Honokaa CDP, Hawaii County	2 186	16.1	606	26 192	33 252	30 903	35 579	7 956	16 764	
Honolulu CDP, Honolulu County	365 272	13.9	110	36 826	37 575	44 649	45 786	23 671	24 684	
Honoumuli CDP, Hawaii County	532	15.6	1 095	16 772	28 626	17 231	27 993	—	40 000	
Iroquois Point CDP, Honolulu County	4 188	16.2	2 688	27 689	31 430	27 526	31 449	—	37 500	
Kaaawa CDP, Honolulu County	1 138	16.8	1 236	35 875	44 002	36 934	54 186	11 032	31 027	
Kaanapali CDP, Maui County	579	9.5	3 523	56 282	87 583	57 996	101 828	23 495	73 977	
Kahaluu CDP, Honolulu County	3 068	15.4	908	39 059	48 551	38 243	48 712	30 789	50 070	
Kahaluu-Keaouhou CDP, Hawaii County	1 990	13.5	1 659	34 770	44 315	37 615	54 335	18 621	36 638	
Kahuku CDP, Honolulu County	2 063	11.3	720	22 418	34 976	23 522	39 002	3 873	14 411	
Kahului CDP, Maui County	16 889	15.9	322	36 755	39 827	40 406	44 714	11 843	16 215	
Kailua CDP, Hawaii County	9 126	12.3	600	28 136	32 994	33 137	37 414	20 465	24 789	
Kailua CDP, Honolulu County	36 818	15.7	298	53 560	56 708	56 028	59 147	28 442	33 501	
Kalaheo CDP, Kauai County	3 592	14.7	830	41 333	48 606	42 590	50 689	17 170	35 856	
Kalaopa CDP, Hawaii County	4 490	13.9	1 017	40 180	44 881	40 019	44 540	24 057	43 352	
Kalihiwai CDP, Kauai County	435	14.9	2 673	20 578	53 353	20 191	67 187	10 942	53 437	
Kaneohe CDP, Honolulu County	35 448	15.1	242	48 345	51 016	49 827	52 469	27 295	32 006	
Kaneohe Station CDP, Honolulu County	11 662	11.7	1 688	25 518	28 178	24 903	27 815	—	30 000	
Kapaa CDP, Kauai County	8 149	12.2	479	29 337	34 303	31 980	36 494	15 502	22 403	
Kapaa CDP, Hawaii County	1 083	16.5	682	23 803	35 321	24 376	35 556	10 644	19 232	
Kapalua CDP, Maui County	408	12.0	3 686	36 449	64 666	21 783	99 132	35 275	49 877	
Kaumakani CDP, Kauai County	803	17.3	652	33 019	44 348	33 622	44 831	5 382	19 670	
Kaunakakai CDP, Maui County	2 658	15.8	653	22 735	30 989	25 363	34 247	5 747	19 037	
Kawela Bay CDP, Honolulu County	366	11.2	3 052	25 339	61 184	30 334	75 105	22 574	44 566	
Keaua CDP, Hawaii County	1 584	15.9	1 252	17 845	32 926	24 681	37 322	5 028	7 780	
Kealahou CDP, Hawaii County	1 453	12.0	1 488	23 681	32 493	26 417	55 290	10 066	26 128	
Kekaha CDP, Kauai County	3 506	15.5	646	27 891	40 122	34 190	43 356	5 404	8 176	
Kihei CDP, Maui County	11 107	10.4	538	37 308	42 256	40 575	45 784	25 410	33 456	
Kilauea CDP, Kauai County	1 685	13.5	1 474	34 047	45 994	37 983	49 954	12 600	26 671	
Koloa CDP, Kauai County	1 791	11.1	848	22 156	36 249	30 179	39 945	7 338	21 018	
Kualapuu CDP, Maui County	1 661	13.7	734	23 323	33 598	25 850	37 121	5 299	14 894	
Kukuihaele CDP, Hawaii County	316	10.8	1 366	16 883	31 918	26 513	32 423	—	17 500	
Kurtistown CDP, Hawaii County	910	13.0	1 055	18 430	34 555	30 781	41 013	7 588	17 226	
Lahaina CDP, Maui County	9 073	11.4	534	40 005	45 479	40 267	47 940	25 188	36 672	
Laie CDP, Honolulu County	5 577	15.0	455	26 700	38 611	26 858	39 350	10 465	28 991	
Lanai City CDP, Maui County	2 400	14.8	875	27 201	34 744	31 438	39 611	11 075	21 670	
Laupahoehoe CDP, Hawaii County	508	14.2	1 618	18 898	31 029	20 240	35 217	2 523	45 818	
Lawai CDP, Kauai County	1 787	15.3	1 225	40 022	48 777	44 445	49 856	19 561	28 501	
Lihue CDP, Kauai County	5 536	11.2	1 040	38 962	45 896	42 205	53 095	21 367	30 836	
Maalaea CDP, Maui County	443	15.6	2 842	31 731	45 455	30 707	60 926	30 156	39 543	
Mali CDP, Honolulu County	6 059	14.8	586	36 442	42 755	37 218	44 381	19 044	31 555	
Makaha CDP, Honolulu County	7 990	11.0	472	25 792	31 448	26 038	32 558	18 724	26 477	
Makaha Valley CDP, Honolulu County	1 012	9.2	1 378	21 759	33 381	21 871	32 082	14 623	41 310	
Makakilo City CDP, Honolulu County	9 828	13.3	413	47 846	52 114	48 789	54 039	40 117	46 274	
Makawao CDP, Maui County	5 405	11.9	798	40 523	49 054	42 069	51 322	19 812	41 086	
Maunaloa CDP, Maui County	405	17.3	1 031	16 040	35 960	16 090	40 350	—	20 000	
Maunawili CDP, Honolulu County	4 847	16.3	837	63 076	70 583	65 002	73 696	29 016	49 173	
Millilani Town CDP, Honolulu County	29 359	14.4	244	54 027	56 465	55 617	58 048	36 842	41 522	
Mokuleia CDP, Honolulu County	1 776	8.6	1 242	30 866	40 424	30 308	41 057	23 602	41 309	
Mountain View CDP, Hawaii County	3 075	14.4	612	18 794	25 842	21 242	28 136	7 461	15 990	

Table 20. Percent in Sample, Standard Error, and Confidence Bounds for Population Characteristics: 1990—Con.

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

State County Place and [In Selected States] County Subdivision	Persons		Per capita income in 1989 (dollars) —Standard error	Median income in 1989 (dollars)					
	100-percent count	Percent in sample		Household		Family		Nonfamily household	
				90-percent confidence bounds		90-percent confidence bounds		90-percent confidence bounds	
				Lower	Upper	Lower	Upper	Lower	Upper
PLACE AND COUNTY SUBDIVISION—									
Con.									
Naalehu CDP, Hawaii County	1 027	15.2	1 014	18 458	26 501	20 326	27 375	4 535	11 820
Nanakuli CDP, Honolulu County.....	9 575	14.4	324	32 139	36 945	32 317	37 097	15 164	26 296
Napili-Honokowai CDP, Maui County.....	4 332	10.5	1 076	34 473	41 073	38 268	46 045	28 832	36 125
Omao CDP, Kauai County.....	1 142	10.6	1 035	42 517	46 693	43 076	49 650	6 270	41 719
Paauiilo CDP, Hawaii County	620	11.8	1 408	21 609	31 493	23 456	40 468	1 997	64 218
Pahala CDP, Hawaii County	1 520	15.7	633	17 004	23 835	21 279	28 891	7 050	12 771
Pahoa CDP, Hawaii County	1 027	17.3	1 053	16 708	27 455	19 609	31 632	5 487	12 087
Paia CDP, Maui County	2 091	14.5	900	34 731	42 981	34 974	45 596	10 932	42 538
Pakala Village CDP, Kauai County.....	565	12.6	1 117	18 062	30 541	20 566	31 983	6 102	23 826
Papaikou CDP, Hawaii County.....	1 634	14.4	831	22 766	31 756	23 663	35 115	11 255	28 650
Paukaa CDP, Hawaii County	495	15.4	3 735	28 823	52 684	29 591	56 156	5 684	64 286
Pearl City CDP, Honolulu County	30 993	14.9	256	49 075	52 328	51 337	54 541	19 594	25 421
Pepeekeo CDP, Hawaii County	1 813	16.1	603	15 100	18 940	16 751	25 146	3 934	6 800
Poipu CDP, Kauai County	975	10.9	3 281	29 829	55 209	29 701	67 911	23 258	50 075
Princeville CDP, Kauai County	1 244	12.1	2 608	36 881	52 837	37 461	57 928	20 969	54 127
Puako CDP, Hawaii County	397	12.1	3 796	24 648	48 485	30 132	52 261	15 214	47 690
Puhi CDP, Kauai County	1 210	15.4	1 095	41 390	50 758	41 857	50 452	7 004	33 698
Pukalani CDP, Maui County	5 879	15.9	661	39 135	45 671	42 047	48 238	22 049	29 883
Punaluu CDP, Honolulu County	672	11.2	3 888	25 840	36 691	25 337	74 595	22 314	34 374
Pupukea CDP, Honolulu County.....	4 111	10.8	966	34 350	44 147	37 517	48 203	23 380	35 204
Schofield Barracks CDP, Honolulu County ---	19 597	14.9	139	24 331	26 680	24 307	26 628	10 369	29 263
Village Park CDP, Honolulu County	7 407	15.9	406	53 912	58 239	54 795	59 169	33 038	53 141
Volcano CDP, Hawaii County	1 516	13.1	1 552	21 832	32 297	23 392	35 058	17 652	26 470
Wahiawa CDP, Honolulu County	17 386	13.9	383	31 467	35 322	34 450	38 025	13 749	18 230
Waialua CDP, Honolulu County	3 943	10.2	796	30 775	38 368	32 748	39 914	11 078	25 783
Waianae CDP, Honolulu County	8 758	14.8	417	30 819	36 279	33 325	38 769	8 200	17 057
Waihee-Waiehu CDP, Maui County	4 004	13.0	676	41 386	50 617	42 266	50 859	18 279	36 099
Waikane CDP, Honolulu County.....	717	14.8	1 900	23 663	51 349	22 280	50 666	1 160	172 490
Waikapu CDP, Maui County	729	17.4	1 548	29 444	58 711	31 184	59 149	593	97 039
Waikoloa Village CDP, Hawaii County.....	2 248	10.6	1 297	40 489	51 362	40 617	51 314	35 159	63 195
Wailea-Makena CDP, Maui County	3 799	12.9	1 321	41 728	50 311	48 965	54 532	25 564	35 637
Wailua CDP, Kauai County	2 018	16.7	601	34 950	41 616	35 562	43 285	23 420	36 395
Wailua Homesteads CDP, Kauai County ----	3 870	15.4	758	38 577	47 869	39 528	47 447	28 699	40 941
Wailuku CDP, Maui County	10 688	13.6	550	36 242	41 283	43 007	49 303	20 084	22 604
Waimalu CDP, Honolulu County	29 967	13.5	337	50 769	53 281	54 863	57 956	34 036	37 606
Waimanalo CDP, Honolulu County.....	3 508	15.1	786	38 164	44 923	40 630	46 063	8 027	28 532
Waimanalo Beach CDP, Honolulu County ----	4 185	16.4	640	39 020	49 705	42 773	51 842	12 499	36 786
Waimea CDP, Hawaii County	5 972	14.2	731	34 230	40 969	36 397	44 689	17 847	32 967
Waimea CDP, Kauai County	1 840	17.5	814	32 720	40 483	37 139	47 414	12 227	29 992
Wainaku CDP, Hawaii County	1 243	14.9	925	20 524	34 424	25 043	38 573	7 684	16 574
Waipahu CDP, Honolulu County	31 435	13.4	254	36 520	40 405	38 827	42 263	15 385	19 909
Waipio CDP, Honolulu County	11 812	11.5	434	50 438	53 277	52 289	55 785	35 999	43 161
Waipio Acres CDP, Honolulu County	5 304	14.7	425	32 233	38 492	31 138	39 150	25 569	36 408
Wheeler AFB CDP, Honolulu County	2 600	15.8	376	24 015	27 763	24 130	27 968	—	17 500
Whitmore Village CDP, Honolulu County ----	3 373	16.4	467	36 993	45 032	36 214	45 679	16 349	46 062

Table 21. Percent in Sample and Confidence Bounds for Housing Characteristics: 1990

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

State County County Subdivision Place	Housing units		Median selected monthly owner costs (dollars)				Median selected monthly owner costs as a percentage of household income in 1989				Median gross rent (dollars)		Median gross rent as a percentage of household income in 1989	
	100-percent count	Percent in sample	With a mortgage		Not mortgaged		With a mortgage		Not mortgaged		90-percent confidence bounds		90-percent confidence bounds	
			Lower	Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower	Upper
The State	389 810	13.9	997	1 020	168	172	21.2	21.6	10.6	11.0	645	654	27.1	27.6
Hawaii County	48 253	14.2	652	686	127	133	19.8	21.0	10.4	11.3	480	501	26.2	27.8
Hilo division	14 685	15.2	663	714	130	139	16.7	18.8	9.9	11.5	404	432	26.1	28.6
Hilo CDP	14 134	15.2	666	717	131	141	16.7	18.8	9.9	11.5	403	432	26.2	28.7
Mountain View CDP (pt.)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Wainaku CDP	417	14.6	354	781	70	126	10.2	23.2	6.7	13.3	382	591	11.8	29.8
Honokaa-Kukuihaele division	1 312	15.1	507	628	117	143	13.4	20.5	8.5	12.8	360	439	21.5	29.6
Honokaa CDP (pt.)	781	15.9	492	620	112	141	13.2	21.1	8.3	13.8	370	473	22.5	31.6
Kukuihaele CDP	109	11.9	—	400	62	174	—	20.0	3.0	17.0	—	250	—	20.0
Kau division	1 958	13.4	403	492	103	130	16.0	25.2	8.8	12.8	238	367	17.3	27.4
Hawaiian Ocean View CDP	626	12.9	294	558	62	116	16.1	45.7	6.6	13.4	236	437	11.8	61.5
Naalehu CDP	316	15.2	326	562	105	154	10.4	25.2	7.9	15.7	293	438	18.9	65.6
Pahala CDP	521	14.6	350	463	111	162	15.4	32.0	7.7	15.2	180	264	12.1	25.6
Volcano CDP (pt.)	30	20.0	205	1 237	—	—	1.0	29.7	—	—	—	1 000	—	100.0
Keau-Mountain View division	5 875	13.8	506	579	91	111	17.5	21.6	9.8	12.1	446	506	27.6	34.7
Hawaiian Paradise Park CDP	1 342	12.3	542	684	80	125	14.2	21.6	7.4	12.6	505	600	24.3	55.4
Keau CDP	528	15.5	552	725	110	133	20.0	24.1	8.6	13.7	175	447	18.8	42.3
Kurtistown CDP	322	15.5	368	592	108	182	9.1	29.5	5.9	15.2	264	539	2.6	70.1
Mountain View CDP (pt.)	1 326	14.6	479	623	73	114	16.7	26.6	8.8	13.1	410	501	28.1	49.7
Volcano CDP (pt.)	857	13.0	315	480	100	158	8.8	18.8	8.0	17.5	385	541	13.8	29.4
North Hilo division	567	12.3	357	502	75	185	13.3	24.6	6.1	17.1	134	277	9.2	21.0
Laupahoehoe CDP	182	13.7	302	586	103	184	6.0	29.9	4.1	15.9	122	478	2.2	17.8
North Kohala division	1 540	16.1	513	682	79	113	13.2	19.8	8.3	12.0	393	535	19.8	26.9
Halaula CDP	144	16.0	322	498	21	123	9.9	24.5	3.9	21.9	450	857	4.0	67.4
Hawi CDP	341	15.8	484	787	85	143	11.4	27.6	6.1	13.9	355	517	16.8	43.9
Kapaau CDP	393	15.8	531	882	65	114	7.9	24.6	7.2	12.8	228	631	18.2	28.2
North Kona division	9 990	12.9	904	1 034	189	222	22.4	25.0	9.5	12.6	687	743	27.3	31.2
Holualoa CDP	1 926	12.1	800	1 219	194	280	20.9	27.8	8.9	15.4	679	802	21.8	30.2
Honalo CDP	775	15.1	646	1 221	137	212	18.9	49.9	6.6	13.4	704	817	27.7	41.9
Kahaluu-Keauhou CDP	1 507	14.9	675	1 304	174	253	11.5	21.7	7.0	16.5	694	987	31.9	57.3
Kailua CDP	3 739	11.8	780	1 019	140	239	20.4	24.7	7.8	15.7	551	669	27.7	32.2
Kalaea CDP	1 685	13.6	959	1 109	183	238	23.9	29.2	7.2	12.8	879	1 050	23.6	34.2
Kealahou CDP (pt.)	77	9.1	—	800	—	—	—	30.0	—	—	—	750	—	30.0
Paaahu-Paauilo division	646	13.8	515	713	112	175	7.2	57.5	8.3	16.7	120	173	9.6	15.8
Honokaa CDP (pt.)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Paaulo CDP	197	12.2	—	—	—	200	—	—	—	20.0	108	162	7.1	14.7
Paho-Kalapana division	2 722	13.4	433	513	95	119	20.3	25.3	10.5	14.3	467	522	31.0	48.6
Hawaiian Beaches CDP	1 005	14.1	431	552	102	134	18.9	25.2	8.6	16.6	493	561	33.3	60.9
Paho CDP	352	15.9	417	677	85	147	14.6	27.6	7.0	15.0	235	345	16.0	39.5
Papaikou-Wailea division	1 795	14.7	488	603	114	131	16.5	22.7	8.4	11.9	293	391	22.0	27.2
Honouu CDP	185	14.6	350	595	56	157	6.5	67.7	5.3	14.7	319	474	19.9	53.8
Papaikou CDP	551	14.7	615	748	115	142	14.9	25.9	7.2	12.8	385	479	17.8	38.9
Paukaa CDP	209	15.8	610	1 324	58	124	13.5	29.9	5.8	14.2	215	962	3.5	93.4
Pepeekeo CDP	624	14.4	364	483	114	145	13.0	22.1	7.0	14.8	146	220	23.9	28.9
South Kohala division	4 235	13.5	762	950	162	201	22.2	25.4	8.6	13.3	806	872	24.5	29.5
Puako CDP	545	15.8	1 065	3 081	—	150	23.6	67.1	—	20.0	716	866	22.5	59.1
Waikoloa Village CDP	1 303	11.6	1 120	1 457	129	232	21.4	29.6	5.2	17.3	855	935	23.0	30.2
Waimea CDP	2 140	13.9	652	802	166	209	21.2	24.7	8.3	13.5	687	843	24.2	30.4
South Kona division	2 928	15.1	776	912	132	156	17.8	24.2	8.8	12.4	385	491	22.7	28.0
Captain Cook CDP	949	15.5	818	1 053	119	150	14.5	23.4	7.1	13.5	410	652	18.7	29.4
Honauunuu-Napoopoo CDP	896	16.2	601	1 017	146	193	14.8	29.1	7.9	13.8	411	645	23.7	41.7
Kealahou CDP (pt.)	515	14.4	562	953	122	175	11.6	24.1	5.8	14.2	261	343	19.6	24.2
Honolulu County	281 683	13.9	1 108	1 134	183	187	21.2	21.8	10.5	11.0	658	667	27.3	27.8
Ewa division	66 376	14.1	1 133	1 170	166	174	22.4	23.2	9.8	11.1	797	818	28.8	29.9
Aiea CDP	2 678	15.9	866	1 097	169	190	13.9	17.6	8.8	11.7	829	936	21.8	29.7
Barbers Point Housing CDP	866	11.7	—	—	3	98	—	—	—	—	437	699	22.6	34.2
Ewa Beach CDP	3 426	13.1	850	959	134	169	17.9	21.7	9.0	16.6	720	799	25.5	30.5
Ewa Gentry CDP	752	11.7	1 329	1 456	—	—	27.3	37.3	—	—	793	1 199	42.3	74.5
Ewa Villages CDP	939	16.1	649	783	114	142	19.4	23.2	5.8	16.9	111	143	8.3	13.2
Halawa CDP	4 094	16.1	1 016	1 135	176	199	19.4	23.0	8.1	12.3	583	815	25.7	30.1
Hickam Housing CDP	1 841	16.4	—	—	—	100	—	—	—	—	624	816	18.6	24.6
Iroquois Point CDP	1 180	16.3	—	1 500	—	—	—	30.0	—	—	719	859	24.1	37.6
Makakilo City CDP	3 050	12.6	1 204	1 315	163	213	25.4	27.8	5.6	14.4	933	1 043	30.8	39.9
Mililani Town CDP	8 900	14.4	1 264	1 322	163	198	24.5	26.1	7.4	13.4	995	1 158	29.4	32.6
Pearl City CDP	8 999	14.8	759	834	162	174	14.1	15.9	9.0	11.3	727	784	29.0	32.0
Village Park CDP	2 176	15.7	1 536	1 631	147	188	31.0	34.2	3.9	16.1	1 057	1 384	27.3	42.4
Waimalu CDP	10 613	13.2	1 238	1 344	155	185	22.7	24.8	8.6	13.1	863	900	28.1	31.1
Waipahu CDP	7 739	13.1	835	974	153	174	17.0	20.1	9.1	12.3	603	631	26.7	29.9
Waipio CDP	4 087	11.7	1 306	1 391	169	319	24.0	26.7	4.8	15.2	872	923	29.0	34.9
Waipio Acres CDP	1 836	15.1	1 058	1 249	136	180	24.4	31.4	6.8	13.2	774	830	38.6	53.2
Honolulu division	149 066	13.6	1 162	1 219	194	199	19.6	20.7	10.4	11.2	617	629	26.6	27.2
Aliamanu CDP	2 353	10.8	—	4 001	—	—	—	100.0	—	—	460	745	24.1	27.7
Fort Shafter CDP	917	12.6	—	—	—	100	—	—	—	20.0	511	870	11.6	23.2
Honolulu CDP	145 796	13.7	1 162	1 219	194	199	19.6	20.6	10.4	11.2	617	629	26.6	27.2
Koolauloa division	5 939	13.1	888	1 075	136	174	21.7	26.3	9.2	14.1	583	665	24.7	29.0
Hauula CDP	1 021	13.6	915	1 126	107	150	16.3	28.7	5.5	14.5	631	785	28.7	45.5
Kaaawa CDP	452	14.8	969	1 575	80	337	22.8	35.3	6.1	19.3	643	826	23.1	52.9
Kahuku CDP	586	11.9	436	579	6	148	13.5	22.4	5	19.5	116	181	11.8	21.3
Kawela Bay CDP	418	12.4												

Table 21. Percent in Sample and Confidence Bounds for Housing Characteristics: 1990—Con.

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

State County County Subdivision Place	Housing units		Median selected monthly owner costs (dollars)				Median selected monthly owner costs as a percentage of household income in 1989				Median gross rent (dollars)		Median gross rent as a percentage of household income in 1989	
	100-percent count	Percent in sample	With a mortgage		Not mortgaged		With a mortgage		Not mortgaged		90-percent confidence bounds		90-percent confidence bounds	
			Lower	Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower	Upper
Honolulu County—Con.														
Wahiawa division—Con.														
Wheeler AFB CDP	704	16.2	—	—	—	—	—	—	—	—	496	742	24.5	33.5
Whitmore Village CDP	839	15.7	933	1 103	126	193	25.4	31.6	7.0	14.1	534	764	21.1	34.1
Waialua division	3 770	12.4	710	885	120	140	17.3	22.7	8.4	12.2	549	638	23.3	27.0
Haleiwa CDP	866	14.3	484	1 014	134	209	13.8	36.9	6.5	13.5	384	496	20.4	26.0
Mokuleia CDP	798	10.0	934	2 579	—	400	20.3	53.8	—	20.0	696	796	25.4	32.4
Waialua CDP	1 205	10.5	723	1 061	109	131	13.6	24.3	7.4	12.6	296	604	17.4	29.9
Waianae division	10 680	13.7	641	743	141	167	16.7	19.4	10.0	13.1	583	623	28.5	32.8
Malili CDP	1 490	15.3	836	949	115	203	18.9	23.1	7.0	15.4	526	637	23.7	29.8
Makaha CDP	3 178	11.7	664	851	150	223	18.3	24.3	6.5	13.5	581	641	27.8	36.4
Makaha Valley CDP	604	11.6	—	2 000	—	—	—	100.0	—	—	782	877	21.7	44.6
Nanakuli CDP	2 128	14.5	452	564	115	153	11.8	15.9	10.0	15.7	605	719	29.3	46.1
Waianae CDP	2 264	15.2	519	600	129	169	14.6	19.0	8.2	13.7	466	562	25.4	34.4
Kalawao County	101	16.8	—	—	—	—	—	—	—	—	—	200	—	20.0
Kalawao division	101	16.8	—	—	—	—	—	—	—	—	—	200	—	20.0
Kauai County	17 613	14.0	796	859	146	159	20.3	22.0	10.2	11.7	589	655	23.2	25.1
Eleele-Kalaheo division	2 162	15.4	756	880	132	157	16.4	21.0	8.8	12.5	459	705	21.8	26.9
Eleele CDP (pt.)	463	15.6	744	888	116	143	14.6	22.2	6.8	14.9	127	363	24.1	32.8
Hanapepe CDP (pt.)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Kalaheo CDP	1 199	15.2	692	971	126	173	16.2	22.5	7.8	13.1	550	801	20.3	26.9
Lawai CDP (pt.)	314	15.6	479	995	125	171	10.5	21.5	6.8	15.5	709	933	20.9	55.8
Omao CDP (pt.)	4	—	—	—	—	—	—	—	—	—	—	—	—	—
Hanalei division	1 901	13.8	944	1 272	169	215	21.9	26.8	8.6	14.4	867	988	28.3	50.0
Hanalei CDP	3 277	15.7	705	3 277	153	234	21.6	70.6	5.3	26.7	362	1 258	14.8	72.2
Kalihiwai CDP	204	14.7	—	300	18	284	—	20.0	—	94.6	766	963	14.3	49.2
Kilauea CDP	542	14.0	752	1 156	144	194	16.5	24.5	6.6	14.7	730	948	39.8	74.7
Princeville CDP	614	13.8	1 078	1 626	191	468	21.2	31.1	6.1	20.0	1 010	1 449	26.1	44.4
Kapaa division	2 280	12.1	2 025	846	135	164	22.3	28.9	8.7	13.4	604	701	25.2	32.0
Kapaa CDP (pt.)	2 280	12.1	725	846	135	164	22.3	28.9	8.7	13.4	604	701	25.2	32.0
Kaumakani-Hanapepe division	978	15.4	612	1 030	114	148	21.1	28.4	7.4	14.2	166	222	10.8	15.2
Eleele CDP (pt.)	2	—	—	—	—	—	—	—	—	—	—	—	—	—
Hanapepe CDP (pt.)	503	15.7	656	1 111	112	147	20.2	29.3	7.4	14.3	319	500	14.8	25.3
Kaumakani CDP	231	15.6	—	1 250	—	—	—	100.0	—	—	128	172	8.1	13.7
Pakala Village CDP	190	15.8	—	800	—	150	—	30.0	—	20.0	122	174	6.1	13.9
Kekaha-Waimea division	1 949	15.1	553	767	132	164	14.8	21.6	8.7	13.5	347	459	19.8	27.1
Kekaha CDP	1 106	15.5	474	682	128	173	13.7	20.5	7.9	14.4	281	489	23.3	31.9
Waimea CDP	638	15.0	808	1 067	120	169	15.5	30.0	7.4	14.9	360	467	13.6	22.7
Koloa-Poipu division	1 790	11.7	681	971	133	175	15.5	22.6	8.2	13.0	588	745	21.6	29.7
Koloa CDP	587	11.8	611	924	124	185	8.8	46.1	7.5	16.1	327	568	15.6	28.2
Lawai CDP (pt.)	297	12.5	610	1 071	113	181	8.5	21.3	5.0	15.0	557	1 279	21.5	49.8
Omao CDP (pt.)	365	11.5	528	1 200	106	233	15.1	27.6	5.2	14.8	398	888	8.3	30.2
Poipu CDP	497	11.3	653	1 603	162	486	14.2	34.5	4.5	15.5	829	1 262	23.7	66.9
Lihue division	2 141	11.6	623	953	144	195	13.6	20.4	8.1	13.1	625	778	19.0	24.3
Lihue CDP (pt.)	2 141	11.6	623	953	144	195	13.6	20.4	8.1	13.1	625	778	19.0	24.3
Niihau division	43	16.3	—	—	—	—	—	—	—	—	—	200	—	20.0
Puhi-Hanamau division	1 385	15.3	611	808	126	169	18.1	22.9	8.6	13.6	486	594	19.4	27.8
Hanamau CDP	907	15.0	423	694	122	173	14.4	21.9	8.6	14.1	485	743	22.0	39.3
Lihue CDP (pt.)	86	15.1	990	2 191	—	200	22.1	60.8	—	20.0	1 027	1 974	25.2	95.0
Puhi CDP	295	15.6	609	925	105	145	16.5	25.4	2.0	18.0	436	613	7.4	17.6
Waialua-Anahola division	2 984	15.5	903	1 018	143	175	20.1	24.3	9.3	13.0	725	822	23.5	33.3
Anahola CDP	351	14.8	409	583	128	212	9.2	21.6	7.1	15.3	487	834	6.5	20.6
Kapaa CDP (pt.)	456	14.5	972	1 762	128	251	13.5	48.9	6.4	17.5	642	904	18.6	42.6
Waialua CDP	719	16.0	751	962	123	156	18.9	28.8	6.9	13.1	625	828	23.7	44.8
Waialua Homesteads CDP	1 299	15.9	955	1 141	145	213	20.9	26.1	8.8	17.0	769	915	23.6	46.2
Mauı County	42 160	13.4	902	964	155	166	21.6	23.0	10.4	11.7	706	737	26.3	27.8
East Molokai division	1 775	15.7	431	496	140	180	20.4	24.2	8.4	13.3	344	490	26.3	39.4
Kaunakakai CDP	997	15.4	431	495	140	193	19.6	24.3	7.3	13.9	287	493	25.4	33.7
Haiku-Pauwela division	2 074	13.7	843	1 007	115	150	21.5	27.1	8.5	13.8	642	786	26.0	33.0
Haiku-Pauwela CDP	1 649	13.4	831	1 032	124	171	20.6	27.3	8.4	14.4	634	792	23.9	31.8
Hana division	763	17.2	374	668	97	139	12.1	23.5	7.9	14.0	227	515	17.7	57.1
Hana CDP	217	17.5	355	767	76	149	10.9	44.9	5.5	14.5	426	1 405	6.0	82.1
Kahului division	5 084	15.4	742	832	149	167	15.2	18.4	10.2	12.8	563	616	23.7	26.4
Kahului CDP (pt.)	5 084	15.4	742	832	149	167	15.2	18.4	10.2	12.8	563	616	23.7	26.4
Kihei division	7 920	11.3	1 214	1 371	187	237	26.0	29.7	8.9	17.1	828	898	28.6	33.0
Kihei CDP	6 497	11.3	1 205	1 378	190	240	25.6	29.5	8.5	17.2	825	902	28.3	33.1
Maalaea CDP	527	12.9	—	500	—	—	—	20.0	—	—	738	895	23.1	45.5
Wailea-Makena CDP (pt.)	890	10.7	1 075	1 503	154	391	24.7	40.1	1.4	29.1	789	1 299	28.1	59.9
Kula division	4 330	15.5	1 215	1 438	218	259	25.1	29.3	9.6	14.0	840	933	31.4	39.5
Wailea-Makena CDP (pt.)	2 180	15.7	1 459	1 798	251	297	26.7	38.8	8.6	17.8	957	1 253	32.0	49.1
Lahaina division	7 739	11.4	939	1 226	163	199	21.7	28.0	8.8	13.1	783	857	23.9	27.4
Kaanapali CDP	703	11.0	1 700	3 420	—	300	29.2	69.6	—	20.0	369	1 488	12.2	30.4
Kapalua CDP	921	12.2	—	—	—	200	—	—	—	20.0	478	1 804	4.6	28.0
Lahaina CDP	2 982	11.5	891	1 188	144	189	19.1	28.2	8.7	13.8	669	813	20.9	24.9
Napili-Honokowai CDP	3 080	11.1	750	1 472	183	541	20.8	28.7	5.4	14.6	829	910	27.0	32.6
Lanai division	1 007	15.2	595	823	127	161	13.7	23.7	7.9	13.2	238	295	9.8	15.3
Lanai City CDP	967	15.2	595	823	127	161	13.7	23.7	7.9	13.2	236	297	9.8	15.4
Makawao-Paia division	5 122	13.2	858	994	141	169	20.9	23.5	9.3	12.6	779	851	26.7	31.8
Haliimaile CDP	240	10.8	555	857	124	233	9.5	26.2	5.5	20.3	714	963	5.4	76.6
Makawao CDP	1 801	11.4	985	1 175	115	159	21.3	25.2	6.9	14.0	800	899	26.1	45.2
Paia CDP	740	14.1	598	796	105	148	13.8	21.9	7.4	14.5	630	1 102	26.7	39.0
Pukalani CDP	1 898	15.2	773	1 041	156	189	20.2	24.5	8.5	13.6	748	846	24.2	29.5
Puunene division	51	15.7	—	—	—	—	—	—	—	—	24	185	4.3	21.0
Kahului CDP (pt.)	51	15.7	—	—	—	—	—	—	—	—	24	185	4.3	21.0
Spreckelsville division	118	16.1	1 850	3 721	229	605	7							

Table 22. Percent in Sample and Confidence Bounds for Housing Characteristics: 1990

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

State County Place and [In Selected States] County Subdivision	Housing units		Median selected monthly owner costs (dollars)				Median selected monthly owner costs as a percent- age of household income in 1989				Median gross rent (dol- lars)		Median gross rent as a percentage of household income in 1989	
	100-percent count	Percent in sample	With a mortgage		Not mortgaged		With a mortgage		Not mortgaged		90-percent confidence bounds		90-percent confidence bounds	
			90-percent confidence bounds	90-percent confidence bounds	90-percent confidence bounds	90-percent confidence bounds	90-percent confidence bounds	90-percent confidence bounds	Lower	Upper	Lower	Upper		
													Lower	Upper
The State	389 810	13.9	997	1 020	168	172	21.2	21.6	10.6	11.0	645	654	27.1	27.6
COUNTY														
Hawaii County	48 253	14.2	652	686	127	133	19.8	21.0	10.4	11.3	480	501	26.2	27.8
Honolulu County	281 683	13.9	1 108	1 134	183	187	21.2	21.8	10.5	11.0	658	667	27.3	27.8
Kalawao County	101	16.8	—	—	—	—	—	—	—	—	—	200	—	20.0
Kauai County	17 613	14.0	796	859	146	159	20.3	22.0	10.2	11.7	589	655	23.2	25.1
Maui County	42 160	13.4	902	964	155	166	21.6	23.0	10.4	11.7	706	737	26.3	27.8
PLACE AND COUNTY SUBDIVISION														
Ahiimanu CDP, Honolulu County	2 537	12.5	1 113	1 256	206	242	21.9	24.6	6.9	13.9	843	965	28.6	34.5
Aiea CDP, Honolulu County	2 678	15.9	866	1 097	169	190	13.9	17.6	8.8	11.7	829	936	21.8	29.7
Aliamanu CDP, Honolulu County	2 353	10.8	—	4 001	—	—	—	—	100.0	—	460	745	24.1	27.7
Anahola CDP, Kauai County	351	14.8	409	583	128	212	9.2	21.6	7.1	15.3	487	834	6.5	20.6
Barbers Point Housing CDP, Honolulu County	866	11.7	—	—	3	98	—	—	—	—	437	699	22.6	34.2
Captain Cook CDP, Hawaii County	949	15.5	818	1 053	119	150	14.5	23.4	7.1	13.5	410	652	18.7	29.4
Eleie CDP, Kauai County	465	15.5	744	888	116	143	14.6	22.2	6.8	14.9	127	363	24.1	32.8
Ewa Beach CDP, Honolulu County	3 426	13.1	850	959	134	169	17.9	21.7	9.0	16.6	720	799	25.5	30.5
Ewa Gentry CDP, Honolulu County	752	11.7	1 329	1 456	—	—	27.3	37.3	—	—	793	1 199	42.3	74.5
Ewa Villages CDP, Honolulu County	939	16.1	649	783	114	142	19.4	23.2	5.8	16.9	111	143	8.3	13.2
Fort Shafter CDP, Honolulu County	917	12.6	—	—	—	100	—	—	—	20.0	511	870	11.6	23.2
Haiku-Pauwela CDP, Maui County	1 649	13.4	831	1 032	124	171	20.6	27.3	8.4	14.4	634	792	23.9	31.8
Halaui CDP, Hawaii County	144	16.0	322	498	21	123	9.9	24.5	3.9	21.9	450	857	4.0	67.4
Halawa CDP, Honolulu County	4 094	16.1	1 016	1 135	176	199	19.4	23.0	8.1	12.3	583	815	25.7	30.1
Haleiwa CDP, Honolulu County	866	14.3	484	1 014	134	209	13.8	36.9	6.5	13.5	384	496	20.4	26.0
Haliimaile CDP, Maui County	240	10.8	555	857	124	233	9.5	26.2	5.5	20.3	714	963	5.4	76.6
Hana CDP, Maui County	217	17.5	355	767	76	149	10.9	44.9	5.5	14.5	426	1 405	6.0	82.1
Hanalei CDP, Kauai County	217	15.7	705	3 277	153	234	21.6	70.6	5.3	26.7	362	1 258	14.8	72.2
Hanamaulu CDP, Kauai County	907	15.0	423	694	122	173	14.4	21.9	8.6	14.1	485	743	22.0	39.3
Hanapepe CDP, Kauai County	503	15.7	656	1 111	112	147	20.2	29.3	7.4	14.3	319	500	14.8	25.3
Haula CDP, Honolulu County	1 021	13.6	915	1 126	107	150	16.3	28.7	5.5	14.5	631	785	28.7	45.5
Hawaiian Beaches CDP, Hawaii County	1 005	14.1	431	552	102	134	18.9	25.2	8.6	16.6	493	561	33.3	60.9
Hawaiian Ocean View CDP, Hawaii County	626	12.9	294	558	62	116	16.1	45.7	6.6	13.4	236	437	11.8	61.5
Hawaiian Paradise Park CDP, Hawaii County	1 342	12.3	542	684	80	125	14.2	21.6	7.4	12.6	505	600	24.3	55.4
Hawi CDP, Hawaii County	341	15.8	484	787	85	143	11.4	27.6	6.1	13.9	355	517	16.8	43.9
Heeia CDP, Honolulu County	1 557	14.6	1 146	1 376	175	240	17.4	21.9	6.2	13.8	1 072	1 534	21.6	42.7
Hickam Housing CDP, Honolulu County	1 841	16.4	—	—	—	100	—	—	—	—	624	816	18.6	24.6
Hilo CDP, Hawaii County	14 134	15.2	666	717	131	141	16.7	18.8	9.9	11.5	403	432	26.2	28.7
Holualoa CDP, Hawaii County	1 926	12.1	800	1 219	194	280	20.9	27.8	8.9	15.4	679	802	21.8	30.2
Honalo CDP, Hawaii County	775	15.1	646	1 221	137	212	18.9	49.9	6.6	13.4	704	817	27.7	41.9
Honauunau-Napoopoo CDP, Hawaii County	896	16.2	601	1 017	146	193	14.8	29.1	7.9	13.8	411	645	23.7	41.7
Honokaa CDP, Hawaii County	781	15.9	492	620	112	141	13.2	21.1	8.3	13.8	370	473	22.5	31.6
Honolulu CDP, Honolulu County	145 796	13.7	1 162	1 219	194	199	19.6	20.6	10.4	11.2	617	629	26.6	27.2
Honoumu CDP, Hawaii County	185	14.6	350	595	56	157	6.5	67.7	5.3	14.7	319	474	19.9	53.8
Iroquois Point CDP, Honolulu County	1 180	16.3	—	1 500	—	—	—	30.0	—	—	719	859	24.1	37.6
Kaaawa CDP, Honolulu County	452	14.8	969	1 575	80	337	22.8	35.3	6.1	19.3	643	826	23.1	52.9
Kaanapali CDP, Maui County	703	11.0	1 700	3 420	—	300	29.2	69.6	—	20.0	369	1 488	12.2	30.4
Kahaluu CDP, Honolulu County	960	14.9	820	1 210	171	217	18.8	27.2	7.0	15.8	660	758	20.8	25.6
Kahaluu-Keauhou CDP, Hawaii County	1 507	14.9	675	1 304	174	253	11.5	21.7	7.0	16.5	694	987	31.9	57.3
Kahuku CDP, Honolulu County	586	11.9	436	579	6	148	13.5	22.4	.5	19.5	116	181	11.8	21.3
Kahului CDP, Maui County	5 136	15.4	742	832	149	167	15.2	18.4	10.2	12.8	558	609	23.4	26.1
Kailua CDP, Hawaii County	3 739	11.8	780	1 019	140	239	20.4	24.7	7.8	15.7	551	669	27.7	32.2
Kailua CDP, Honolulu County	12 225	15.6	1 199	1 296	189	207	21.8	23.5	9.6	11.6	853	914	29.5	32.7
Kalaheo CDP, Kauai County	1 199	15.2	692	971	126	173	16.2	22.5	7.8	13.1	550	801	20.3	26.9
Kalaoka CDP, Hawaii County	1 685	13.6	959	1 109	183	238	23.9	29.2	7.2	12.8	879	1 050	23.6	34.2
Kalihiwai CDP, Kauai County	204	14.7	—	300	18	284	—	20.0	.5	94.6	766	963	14.3	49.2
Kaneohe CDP, Honolulu County	10 849	15.3	994	1 071	173	187	20.1	21.8	9.4	11.7	815	874	28.7	32.2
Kaneohe Station CDP, Honolulu County	2 030	11.3	—	—	—	—	—	—	—	—	459	704	22.3	30.9
Kapaa CDP, Kauai County	2 736	12.5	759	891	137	163	22.3	28.5	9.1	13.3	624	713	25.1	31.2
Kapaa CDP, Hawaii County	393	15.8	531	882	65	114	7.9	24.6	7.2	12.8	228	631	18.2	28.2
Kapalua CDP, Maui County	921	12.2	—	—	—	200	—	—	—	20.0	478	1 804	4.6	28.0
Kaumakani CDP, Kauai County	231	15.6	—	1 250	—	—	—	100.0	—	—	128	172	8.1	13.7
Kaunakakai CDP, Maui County	997	15.4	431	495	140	193	19.6	24.3	7.3	13.9	287	493	25.4	33.7
Kawela Bay CDP, Honolulu County	418	12.4	—	4 001	—	150	—	100.0	—	—	668	904	25.8	33.5
Keau CDP, Hawaii County	528	15.5	552	725	110	133	20.0	24.1	8.6	13.7	175	447	18.8	42.3
Kealakekua CDP, Hawaii County	592	13.7	564	929	122	176	11.6	24.1	5.7	14.3	264	370	20.3	24.3
Kekaha CDP, Kauai County	1 106	15.5	474	682	128	173	13.7	20.5	7.9	14.4	281	489	23.3	31.9
Kihei CDP, Maui County	6 497	11.3	1 205	1 378	190	240	25.6	29.5	8.5	17.2	825	902	28.3	33.1
Kilauea CDP, Kauai County	542	14.0	752	1 156	144	194	16.5	24.5	6.6	14.7	730	948	39.8	74.7
Koloa CDP, Kauai County	587	11.8	611	924	124	185	8.8	46.1	7.5	16.1	327	568	15.6	28.2
Kualapu CDP, Maui County	493	14.8	426	577	108	164	11.5	20.5	8.0	17.7	380	588	14.1	59.9
Kukuihaele CDP, Hawaii County	109	11.9	—	400	62	174	—	20.0	3.0	17.0	—	250	—	20.0
Kurtistown CDP, Hawaii County	322	15.5	368	592	108	182	9.1	29.5	5.9	15.2	264	539	2.6	70.1
Lahaina CDP, Maui County	2 982	11.5	891	1 188	144	189	19.1	28.2	8.7	13.8	669	813	20.9	24.9
Laie CDP, Honolulu County	1 122	15.4	841	1 262	141	433	14.9	26.5	5.9	17.7	380	587	22.1	33.0
Lanai City CDP, Maui County	967	15.2	595	823	127	161	13.7	23.7	7.9	13.2	236	297	9.8	15.4
Laupahoehoe CDP, Hawaii County	182	13.7	302	586	103	184	6.0	29.9	4.1	15.9	122	478	2.2	17.8
Lawai CDP, Kauai County	611	14.1	648	961	127	166	11.3	19.4	7.3	13.9	582	932	23.3	41.9
Lihue CDP, Kauai County	2 227	11.7	689	993	146	194	14.8	21.9	8.2	13.1	653	785	19.5	24.6
Maalaea CDP, Maui County	527	12.9	—	500	—	—	—	20.0	—	—	738	895	23.1	45.5
Mali CDP, Honolulu County	1 490	15.3	836	949</										

Table 22. Percent in Sample and Confidence Bounds for Housing Characteristics: 1990—Con.

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

State County Place and [In Selected States] County Subdivision	Housing units		Median selected monthly owner costs (dollars)				Median selected monthly owner costs as a percent- age of household income in 1989				Median gross rent (dol- lars)		Median gross rent as a percentage of household income in 1989	
	100-percent count	Percent in sample	With a mortgage		Not mortgaged		With a mortgage		Not mortgaged		90-percent confidence bounds		90-percent confidence bounds	
			90-percent confidence bounds		90-percent confidence bounds		90-percent confidence bounds		90-percent confidence bounds		Lower	Upper	Lower	Upper
			Lower	Upper	Lower	Upper	Lower	Upper	Lower	Upper				
PLACE AND COUNTY SUBDIVISION— Con.														
Naalehu CDP, Hawaii County	316	15.2	326	562	105	154	10.4	25.2	7.9	15.7	293	438	18.9	65.6
Nanakuli CDP, Honolulu County	2 128	14.5	452	564	115	153	11.8	15.9	10.0	15.7	605	719	29.3	46.1
Napili-Honokowai CDP, Maui County	3 080	11.1	750	1 472	183	541	20.8	28.7	5.4	14.6	829	910	27.0	32.6
Omao CDP, Kauai County	369	11.4	526	1 203	106	234	15.1	27.7	5.2	14.8	398	890	8.3	30.3
Paauiilo CDP, Hawaii County	197	12.2	—	—	—	200	—	—	—	20.0	108	162	7.1	14.7
Pahala CDP, Hawaii County	521	14.6	350	463	111	162	15.4	32.0	7.7	15.2	180	264	12.1	25.6
Pahoa CDP, Hawaii County	352	15.9	417	677	85	147	14.6	27.6	7.0	15.0	235	345	16.0	39.5
Paia CDP, Maui County	740	14.1	598	796	105	148	13.8	21.9	7.4	14.5	630	1 102	26.7	39.0
Pakala Village CDP, Kauai County	190	15.8	—	800	—	150	—	30.0	—	20.0	122	174	6.1	13.9
Papaikou CDP, Hawaii County	551	14.7	615	748	115	142	14.9	25.9	7.2	12.8	385	479	17.8	38.9
Paukaa CDP, Hawaii County	209	15.8	610	1 324	58	124	13.5	29.9	5.8	14.2	215	962	3.5	93.4
Pearl City CDP, Honolulu County	8 999	14.8	759	834	162	174	14.1	15.9	9.0	11.3	727	784	29.0	32.0
Pepeekeo CDP, Hawaii County	624	14.4	364	483	114	145	13.0	22.1	7.0	14.8	146	220	23.9	28.9
Poipu CDP, Kauai County	497	11.3	653	1 603	162	486	14.2	34.5	4.5	15.5	829	1 262	23.7	66.9
Princeville CDP, Kauai County	614	13.8	1 078	1 626	191	468	21.2	31.1	6.1	20.0	1 010	1 449	26.1	44.4
Puako CDP, Hawaii County	545	15.8	1 065	3 081	—	150	23.6	67.1	—	20.0	716	866	22.5	59.1
Puhi CDP, Kauai County	295	15.6	609	925	105	145	16.5	25.4	2.0	18.0	438	613	7.4	17.6
Pukalani CDP, Maui County	1 898	15.2	773	1 041	156	189	20.2	24.5	8.5	13.6	748	846	24.2	29.5
Punaluu CDP, Honolulu County	466	12.9	819	3 256	—	200	7.4	87.9	—	20.0	480	626	20.0	29.3
Pupukea CDP, Honolulu County	1 488	11.0	1 244	1 602	149	209	24.8	34.1	8.3	18.8	750	881	22.9	31.8
Schofield Barracks CDP, Honolulu County ...	3 556	14.8	—	—	—	—	—	—	—	—	395	415	19.2	24.3
Village Park CDP, Honolulu County	2 176	15.7	1 536	1 631	147	188	31.0	34.2	3.9	16.1	1 057	1 384	27.3	42.4
Volcano CDP, Hawaii County	887	13.2	312	482	100	158	9.3	19.0	8.0	17.5	388	545	14.1	29.7
Wahiawa CDP, Honolulu County	5 765	14.1	919	1 065	139	154	17.6	21.7	9.5	12.2	537	581	27.7	31.7
Waialua CDP, Honolulu County	1 205	10.5	723	1 061	109	131	13.6	24.3	7.4	12.6	296	604	17.4	29.9
Waianae CDP, Honolulu County	2 264	15.2	519	600	129	169	14.6	19.0	8.2	13.7	466	562	25.4	34.4
Waihee-Waihehue CDP, Maui County	1 076	13.5	862	1 093	119	155	21.3	26.0	6.5	13.5	514	978	25.3	35.8
Waikane CDP, Honolulu County	189	13.8	332	3 460	29	305	6.5	78.9	3.0	17.0	135	488	7.6	29.5
Waikapu CDP, Maui County	215	15.3	383	888	29	124	9.0	21.7	3.2	16.8	503	649	10.2	24.9
Waikoloa Village CDP, Hawaii County	1 303	11.6	1 120	1 457	129	232	21.4	29.6	5.2	17.3	855	935	23.0	30.2
Wailea-Makena CDP, Maui County	3 070	14.2	1 367	1 638	237	294	27.3	34.3	8.9	17.8	940	1 198	31.9	47.5
Wailua CDP, Kauai County	721	16.0	751	962	123	156	18.9	28.8	6.9	13.1	625	828	23.7	44.8
Wailua Homesteads CDP, Kauai County	1 299	15.9	955	1 141	145	213	20.9	26.1	8.8	17.0	769	915	23.6	46.2
Wailuku CDP, Maui County	3 848	13.8	856	1 050	140	165	14.6	19.5	9.0	11.8	518	595	22.2	25.2
Waimalu CDP, Honolulu County	10 613	13.2	1 238	1 344	155	185	22.7	24.8	8.6	13.1	863	900	28.1	31.1
Waimanalo CDP, Honolulu County	832	15.3	535	843	157	235	12.3	18.7	6.5	16.8	419	495	19.8	27.3
Waimanalo Beach CDP, Honolulu County	965	16.5	363	524	160	192	11.3	17.5	8.7	12.8	605	862	18.0	33.5
Waimea CDP, Hawaii County	2 140	13.9	652	802	166	209	21.2	24.7	8.3	13.5	687	843	24.2	30.4
Waimea CDP, Kauai County	638	15.0	808	1 067	120	169	15.5	30.0	7.4	14.9	360	467	13.6	22.7
Wainaku CDP, Hawaii County	417	14.6	354	781	70	126	10.2	23.2	6.7	13.3	382	591	11.8	29.8
Waipahu CDP, Honolulu County	7 739	13.1	835	974	153	174	17.0	20.1	9.1	12.3	603	631	26.7	29.9
Waipio CDP, Honolulu County	4 087	11.7	1 306	1 391	169	319	24.0	26.7	4.8	15.2	872	923	29.0	34.9
Waipio Acres CDP, Honolulu County	1 836	15.1	1 058	1 249	136	180	24.4	31.4	6.8	13.2	774	830	38.6	53.2
Wheeler AFB CDP, Honolulu County	704	16.2	—	—	—	—	—	—	—	—	496	742	24.5	33.5
Whitmore Village CDP, Honolulu County	839	15.7	933	1 103	126	193	25.4	31.6	7.0	14.1	534	764	21.1	34.1

Table 23. **Percent in Sample, Standard Error, and Confidence Bounds for American Indian and Alaska Native Areas:
1990**

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

APPENDIX A. Area Classifications

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

AMERICAN INDIAN AND ALASKA NATIVE AREA

Alaska Native Regional Corporation (ANRC)

Alaska Native Regional Corporations (ANRC's) are corporate entities established under the Alaska Native Claims Settlement Act of 1972, Public Law 92-203, as amended by Public Law 94-204, to conduct both business and nonprofit affairs of Alaska Natives. Alaska is divided into

12 ANRC's that cover the entire State, except for the Annette Islands Reserve. The boundaries of the 12 ANRC's were established by the Department of the Interior, in cooperation with Alaska Natives. Each ANRC was designed to include, as far as practicable, Alaska Natives with a common heritage and common interests. The ANRC boundaries for the 1990 census were identified by the Bureau of Land Management. A 13th region was established for Alaska Natives who are not permanent residents and who chose not to enroll in one of the 12 ANRC's; no census products are prepared for the 13th region. ANRC's were first identified for the 1980 census.

Each ANRC is assigned a two-digit census code ranging from 07 through 84. These census codes are assigned in alphabetical order of the ANRC's.

Alaska Native Village (ANV) Statistical Area

Alaska Native villages (ANV's) constitute tribes, bands, clans, groups, villages, communities, or associations in Alaska that are recognized pursuant to the Alaska Native Claims Settlement Act of 1972, Public Law 92-203. Because ANV's do not have legally designated boundaries, the Census Bureau has established Alaska Native village statistical areas (ANVSA's) for statistical purposes. For the 1990 census, the Census Bureau cooperated with officials of the nonprofit corporation within each participating Alaska Native Regional Corporation (ANRC), as well as other knowledgeable officials, to delineate boundaries that encompass the settled area associated with each ANV. ANVSA's are located within ANRC's and do not cross ANRC boundaries. ANVSA's for the 1990 census replace the ANV's that the Census Bureau recognized for the 1980 census.

Each ANVSA is assigned a four-digit census code ranging from 6001 through 8989. Each ANVSA also is assigned a five-digit FIPS code. Both the census and FIPS codes are assigned in alphabetical order of ANVSA's.

American Indian Reservation and Trust Land

American Indian Reservation—Federal American Indian reservations are areas with boundaries established by treaty, statute, and/or executive or court order, and recognized by the Federal Government as territory in which American Indian tribes have jurisdiction. State reservations are lands held in trust by State governments for the use and benefit of a given tribe. The reservations and their boundaries were identified for the 1990 census by the Bureau of Indian Affairs (BIA), Department of Interior (for Federal reservations), and State governments (for State reservations). The names of American Indian reservations recognized by State governments, but not by the Federal Government, are followed by "(State)." Areas composed of reservation lands that are administered jointly and/or are claimed by two reservations, as identified by the BIA, are called "joint areas," and are treated as separate American Indian reservations for census purposes.

Federal reservations may cross State boundaries, and Federal and State reservations may cross county, county subdivision, and place boundaries. For reservations that cross State boundaries, only the portion of the reservations in a given State are shown in the data products for that State; the entire reservations are shown in data products for the United States.

Each American Indian reservation is assigned a four-digit census code ranging from 0001 through 4989. These census codes are assigned in alphabetical order of American Indian reservations nationwide, except that joint areas appear at the end of the code range. Each American Indian reservation also is assigned a five-digit FIPS code; because the FIPS codes are assigned in alphabetical sequence of American Indian reservations within each State, the FIPS code is different in each State for reservations in more than one State.

Trust Land—Trust lands are property associated with a particular American Indian reservation or tribe, held in trust by the Federal Government. Trust lands may be held in trust either for a tribe (tribal trust land) or for an individual member of a tribe (individual trust land). Trust lands recognized for the 1990 census comprise all tribal trust lands and inhabited individual trust lands located outside of a reservation boundary. As with other American Indian areas, trust lands may be located in more than one State. Only the trust lands in a given State are shown in the data products for that State; all trust lands associated with a reservation or tribe are shown in data products for the United States. The Census Bureau first reported data for tribal trust lands for the 1980 census.

Trust lands are assigned a four-digit census code and a five-digit FIPS code, the same as that for the reservation with which they are associated. Trust lands not associated with a reservation are presented by tribal name, interspersed alphabetically among the reservations.

Tribal Designated Statistical Area (TDSA)

Tribal designated statistical areas (TDSA's) are areas, delineated outside Oklahoma by federally- and State-recognized tribes without a land base or associated trust lands, to provide statistical areas for which the Census Bureau tabulates data. TDSA's represent areas generally containing the American Indian population over which federally-recognized tribes have jurisdiction and areas in which State tribes provide benefits and services to their members. The names of TDSA's delineated by State-recognized tribes are followed by "(State)." The Census Bureau did not recognize TDSA's before the 1990 census.

Each TDSA is assigned a four-digit census code ranging from 9001 through 9589. The census codes are assigned in alphabetical order of TDSA's nationwide. Each TDSA also is assigned a five-digit FIPS code in alphabetical order within State.

Tribal Jurisdiction Statistical Area (TJSA)

Tribal jurisdiction statistical areas (TJSA's) are areas, delineated by federally-recognized tribes in Oklahoma without a reservation, for which the Census Bureau tabulates data. TJSA's represent areas generally containing the American Indian population over which one or more tribal governments have jurisdiction; if tribal officials delineated adjacent TJSA's so that they include some duplicate territory, the overlap area is called a "joint use area," which is treated as a separate TJSA for census purposes.

TJSA's replace the "Historic Areas of Oklahoma (excluding urbanized areas)" shown in 1980 census data products. The Historic Areas of Oklahoma comprised the territory located within reservations that had legally established boundaries from 1900 to 1907; these reservations were dissolved during the 2- to 3-year period preceding the statehood of Oklahoma in 1907. The Historic Areas of Oklahoma (excluding urbanized areas) were identified only for the 1980 census.

Each TJSA is assigned a four-digit census code ranging from 5001 through 5989. The census codes are assigned in alphabetical order of TJSA's, except that joint areas appear at the end of the code range. Each TJSA also is assigned a five-digit FIPS code in alphabetical order within Oklahoma.

AREA MEASUREMENT

Area measurements provide the size, in square kilometers (also in square miles in printed reports), recorded for each geographic entity for which the Census Bureau tabulates data in general-purpose data products (except crews-of-vessels entities and ZIP Codes). (Square kilometers may be divided by 2.59 to convert an area measurement to square miles.) Area was calculated from the specific set of boundaries recorded for the entity in the Census Bureau's geographic data base (see "TIGER"). On machine-readable files, area measurements are shown to three decimal places; the decimal point is implied. In printed reports and listings, area measurements are shown to one decimal.

The Census Bureau provides measurements for both land area and total water area for the 1990 census; the water figure includes inland, coastal, Great Lakes, and territorial water. (For the 1980 census, the Census Bureau provided area measurements for land and inland water.) The Census Bureau will provide measurements for the component types of water for the affected entities in a separate file. "Inland water" consists of any lake, reservoir, pond, or similar body of water that is recorded in the Census Bureau's geographic data base. It also includes any river, creek, canal, stream, or similar feature that is recorded in that data base as a two-dimensional feature (rather than as a single line). The portions of the oceans and related large embayments (such as the Chesapeake Bay and Puget Sound), the Gulf of Mexico, and the Caribbean Sea that belong to the United States and its territories are considered to be "coastal" and "territorial"

waters; the Great Lakes are treated as a separate water entity. Rivers and bays that empty into these bodies of water are treated as "inland water" from the point beyond which they are narrower than one nautical mile across. Identification of land and inland, coastal, and territorial waters is for statistical purposes, and does not necessarily reflect legal definitions thereof.

By definition, census blocks do not include water within their boundaries; therefore, the water area of a block is always zero. Land area measurements may disagree with the information displayed on census maps and in the TIGER file because, for area measurement purposes, features identified as "intermittent water" and "glacier" are reported as land area. For this reason, it may not be possible to derive the land area for an entity by summing the land area of its component census blocks. In addition, the water area measurement reported for some geographic entities includes water that is not included in any lower-level geographic entity. Therefore, because water is contained only in a higher-level geographic entity, summing the water measurements for all the component lower-level geographic entities will not yield the water area of that higher-level entity. This occurs, for example, where water is associated with a county but is not within the legal boundary of any minor civil division, or the water is associated with a State but is not within the legal boundary of any county. Crews-of-vessels entities (see "Census Tract and Block Numbering Area" and "Block") do not encompass territory and therefore have no area measurements. ZIP Codes do not have specific boundaries, and therefore, also do not have area measurements.

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

BLOCK

Census blocks are small areas bounded on all sides by visible features such as streets, roads, streams, and railroad tracks, and by invisible boundaries such as city, town, township, and county limits, property lines, and short, imaginary extensions of streets and roads.

Tabulation blocks, used in census data products, are in most cases the same as collection blocks, used in the census enumeration. In some cases, collection blocks have been "split" into two or more parts required for data tabulations. Tabulation blocks do not cross the boundaries of counties, county subdivisions, places, census tracts or block numbering areas, American Indian and Alaska Native areas, congressional districts, voting districts, urban or rural areas, or urbanized areas. The 1990 census is the first for which the entire United States and its possessions are block-numbered.

Blocks are numbered uniquely within each census tract or BNA. A block is identified by a three-digit number, sometimes with a single alphabetical suffix. Block numbers

with suffixes generally represent collection blocks that were "split" in order to identify separate geographic entities that divide the original block. For example, when a city limit runs through data collection block 101, the data for the portion inside the city is tabulated in block 101A and the portion outside, in block 101B. A block number with the suffix "Z" represents a "crews-of-vessels" entity for which the Census Bureau tabulates data, but that does not represent a true geographic area; such a block is shown on census maps associated with an anchor symbol and a census tract or block numbering area with a .99 suffix.

BLOCK GROUP (BG)

Geographic Block Group

A geographic block group (BG) is a cluster of blocks having the same first digit of their three-digit identifying numbers within a census tract or block numbering area (BNA). For example, BG 3 within a census tract or BNA includes all blocks numbered between 301 and 397. In most cases, the numbering involves substantially fewer than 97 blocks. Geographic BG's never cross census tract or BNA boundaries, but may cross the boundaries of county subdivisions, places, American Indian and Alaska Native areas, urbanized areas, voting districts, and congressional districts. BG's generally contain between 250 and 550 housing units, with the ideal size being 400 housing units.

Tabulation Block Group

In the data tabulations, a geographic BG may be split to present data for every unique combination of county subdivision, place, American Indian and Alaska Native area, urbanized area, voting district, urban/ rural and congressional district shown in the data product; for example, if BG 3 is partly in a city and partly outside the city, there will be separate tabulated records for each portion of BG 3. BG's are used in tabulating decennial census data nationwide in the 1990 census, in all block-numbered areas in the 1980 census, and in Tape Address Register (TAR) areas in the 1970 census. For purposes of data presentation, BG's are a substitute for the enumeration districts (ED's) used for reporting data in many parts of the United States for the 1970 and 1980 censuses, and in all areas for pre-1970 censuses.

BOUNDARY CHANGES

The boundaries of some counties, county subdivisions, American Indian and Alaska Native areas, and many incorporated places, changed between those reported for the 1980 census and January 1, 1990. Boundary changes to legal entities result from:

1. Annexations to or detachments from legally established governmental units.
2. Mergers or consolidations of two or more governmental units.
3. Establishment of new governmental units.
4. Disincorporations or disorganizations of existing governmental units.
5. Changes in treaties and Executive Orders.

The historical counts shown for counties, county subdivisions, and places are not updated for such changes, and thus reflect the population and housing units in the area as delineated at each census. Information on boundary changes reported between the 1980 and 1990 censuses for counties, county subdivisions, and incorporated places is presented in the "User Notes" section of the technical documentation of Summary Tape Files 1 and 3, and in the 1990 CPH-2, *Population and Housing Unit Counts* printed reports. For information on boundary changes for such areas in the decade preceding other decennial censuses, see the *Number of Inhabitants* reports for each census. Boundary changes are not reported for some areas, such as census designated places and block groups.

CENSUS REGION AND CENSUS DIVISION

Census Division

Census divisions are groupings of States that are subdivisions of the four census regions. There are nine divisions, which the Census Bureau adopted in 1910 for the presentation of data. The regions, divisions, and their constituent States are:

Northeast Region

New England Division:

Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut

Middle Atlantic Division:

New York, New Jersey, Pennsylvania

Midwest Region

East North Central Division:

Ohio, Indiana, Illinois, Michigan, Wisconsin

West North Central Division:

Minnesota, Iowa, Missouri, North Dakota, South Dakota, Nebraska, Kansas

South Region

South Atlantic Division:

Delaware, Maryland, District of Columbia, Virginia, West Virginia, North Carolina, South Carolina, Georgia, Florida

East South Central Division:

Kentucky, Tennessee, Alabama, Mississippi

West South Central Division:

Arkansas, Louisiana, Oklahoma, Texas

West Region

Mountain Division:

Montana, Idaho, Wyoming, Colorado, New Mexico, Arizona, Utah, Nevada

Pacific Division:

Washington, Oregon, California, Alaska, Hawaii

Census Region

Census regions are groupings of States that subdivide the United States for the presentation of data. There are four regions—Northeast, Midwest, South, and West. Each of the four census regions is divided into two or more census divisions. Prior to 1984, the Midwest region was named the North Central region. From 1910, when census regions were established, through the 1940's, there were three regions—North, South, and West.

CENSUS TRACT AND BLOCK NUMBERING AREA

Block Numbering Area (BNA)

Block numbering areas (BNA's) are small statistical subdivisions of a county for grouping and numbering blocks in nonmetropolitan counties where local census statistical areas committees have not established census tracts. State agencies and the Census Bureau delineated BNA's for the 1990 census, using guidelines similar to those for the delineation of census tracts. BNA's do not cross county boundaries.

BNA's are identified by a four-digit basic number and may have a two-digit suffix; for example, 9901.07. The decimal point separating the four-digit basic BNA number from the two-digit suffix is shown in printed reports, in microfiche, and on census maps; in machine-readable files, the decimal point is implied. Many BNA's do not have a suffix; in such cases, the suffix field is left blank in all data products. BNA numbers range from 9501 through 9989.99, and are unique within a county (numbers in the range of 0001 through 9499.99 denote a census tract). The suffix .99 identifies a BNA that was populated entirely by persons aboard one or more civilian or military ships. A "crews-of-vessels" BNA appears on census maps only as an anchor symbol with its BNA number (and block numbers on maps showing block numbers); the BNA relates to the ships associated with the onshore BNA's having the same four-digit basic number. Suffixes in the range .80 through .98 usually identify BNA's that either were revised or were created during the 1990 census data collection activities.

Some of these revisions produced BNA's that have extremely small land area and may have little or no population or housing. For data analysis, such a BNA can be summarized with an adjacent BNA.

Census Tract

Census tracts are small, relatively permanent statistical subdivisions of a county. Census tracts are delineated for all metropolitan areas (MA's) and other densely populated counties by local census statistical areas committees following Census Bureau guidelines (more than 3,000 census tracts have been established in 221 counties outside MA's). Six States (California, Connecticut, Delaware, Hawaii, New Jersey, and Rhode Island) and the District of Columbia are covered entirely by census tracts. Census tracts usually have between 2,500 and 8,000 persons and, when first delineated, are designed to be homogeneous with respect to population characteristics, economic status, and living conditions. Census tracts do not cross county boundaries. The spatial size of census tracts varies widely depending on the density of settlement. Census tract boundaries are delineated with the intention of being maintained over a long time so that statistical comparisons can be made from census to census. However, physical changes in street patterns caused by highway construction, new development, etc., may require occasional revisions; census tracts occasionally are split due to large population growth, or combined as a result of substantial population decline. Census tracts are referred to as "tracts" in all 1990 data products.

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

Census tract numbers range from 0001 through 9499.99 and are unique within a county (numbers in the range of 9501 through 9989.99 denote a block numbering area). The suffix .99 identifies a census tract that was populated entirely by persons aboard one or more civilian or military ships. A "crews-of-vessels" census tract appears on census maps only as an anchor symbol with its census tract number (and block numbers on maps showing block numbers). These census tracts relate to the ships associated with the onshore census tract having the same four-digit basic number. Suffixes in the range .80 through .98 usually identify census tracts that either were revised or were created during the 1990 census data collection activities. Some of these revisions may have resulted in census tracts that have extremely small land area and may have little or no population or housing. For data analysis, such a census tract can be summarized with an adjacent census tract.

CONGRESSIONAL DISTRICT (CD)

Congressional districts (CD's) are the 435 areas from which persons are elected to the U.S. House of Representatives. After the apportionment of congressional seats among the States, based on census population counts, each State is responsible for establishing CD's for the purpose of electing representatives. Each CD is to be as equal in population to all other CD's in the State as practicable, based on the decennial census counts.

The CD's that were in effect on January 1, 1990 were those of the 101st Congress. Data on the 101st Congress appear in an early 1990 census data product (Summary Tape File 1A). The CD's of the 101st Congress are the same as those in effect for the 102nd Congress. CD's of the 103rd Congress, reflecting redistricting based on the 1990 census, are summarized in later 1990 data products (STF's 1D and 3D, and 1990 CPH-4, *Population and Housing Characteristics for Congressional Districts of the 103rd Congress* printed reports).

COUNTY

The primary political divisions of most States are termed "counties." In Louisiana, these divisions are known as "parishes." In Alaska, which has no counties, the county equivalents are the organized "boroughs" and the "census areas" that are delineated for statistical purposes by the State of Alaska and the Census Bureau. In four States (Maryland, Missouri, Nevada, and Virginia), there are one or more cities that are independent of any county organization and thus constitute primary divisions of their States. These cities are known as "independent cities" and are treated as equivalent to counties for statistical purposes. That part of Yellowstone National Park in Montana is treated as a county equivalent. The District of Columbia has no primary divisions, and the entire area is considered equivalent to a county for statistical purposes.

Each county and county equivalent is assigned a three-digit FIPS code that is unique within State. These codes are assigned in alphabetical order of county or county equivalent within State, except for the independent cities, which follow the listing of counties.

COUNTY SUBDIVISION

County subdivisions are the primary subdivisions of counties and their equivalents for the reporting of decennial census data. They include census county divisions, census subareas, minor civil divisions, and unorganized territories.

Each county subdivision is assigned a three-digit census code in alphabetical order within county and a five-digit FIPS code in alphabetical order within State.

Census County Division (CCD)

Census county divisions (CCD's) are subdivisions of a county that were delineated by the Census Bureau, in cooperation with State officials and local census statistical

areas committees, for statistical purposes. CCD's were established in 21 States where there are no legally established minor civil divisions (MCD's), where the MCD's do not have governmental or administrative purposes, where the boundaries of the MCD's change frequently, and/ or where the MCD's are not generally known to the public. CCD's have no legal functions, and are not governmental units.

The boundaries of CCD's usually are delineated to follow visible features, and in most cases coincide with census tract or block numbering area boundaries. The name of each CCD is based on a place, county, or well-known local name that identifies its location. CCD's have been established in the following 21 States: Alabama, Arizona, California, Colorado, Delaware, Florida, Georgia, Hawaii, Idaho, Kentucky, Montana, Nevada, New Mexico, Oklahoma, Oregon, South Carolina, Tennessee, Texas, Utah, Washington, and Wyoming. For the 1980 census, the county subdivisions recognized for Nevada were MCD's.

Census Subarea (Alaska)

Census subareas are statistical subdivisions of boroughs and census areas (county equivalents) in Alaska. Census subareas were delineated cooperatively by the State of Alaska and the Census Bureau. The census subareas, identified first in 1980, replaced the various types of subdivisions used in the 1970 census.

Minor Civil Division (MCD)

Minor civil divisions (MCD's) are the primary political or administrative divisions of a county. MCD's represent many different kinds of legal entities with a wide variety of governmental and/ or administrative functions. MCD's are variously designated as American Indian reservations, assessment districts, boroughs, election districts, gores, grants, magisterial districts, parish governing authority districts, plantations, precincts, purchases, supervisors' districts, towns, and townships. In some States, all or some incorporated places are not located in any MCD and thus serve as MCD's in their own right. In other States, incorporated places are subordinate to (part of) the MCD's in which they are located, or the pattern is mixed—some incorporated places are independent of MCD's and others are subordinate to one or more MCD's.

The Census Bureau recognizes MCD's in the following 28 States: Arkansas, Connecticut, Illinois, Indiana, Iowa, Kansas, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Nebraska, New Hampshire, New Jersey, New York, North Carolina, North Dakota, Ohio, Pennsylvania, Rhode Island, South Dakota, Vermont, Virginia, West Virginia, and Wisconsin. The District of Columbia has no primary divisions, and the entire area is considered equivalent to an MCD for statistical purposes.

The MCD's in 12 selected States (Connecticut, Maine, Massachusetts, Michigan, Minnesota, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont, and Wisconsin) also serve as general-purpose local governments. The Census Bureau presents data for these MCD's in all data products in which it provides data for places.

Unorganized Territory (unorg.)

In nine States (Arkansas, Iowa, Kansas, Louisiana, Maine, Minnesota, North Carolina, North Dakota, and South Dakota), some counties contain territory that is not included in an MCD recognized by the Census Bureau. Each separate area of unorganized territory in these States is recognized as one or more separate county subdivisions for census purposes. Each unorganized territory is given a descriptive name, followed by the designation "unorg."

GEOGRAPHIC CODE

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

Census Code

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

Federal Information Processing Standards (FIPS) Code

Federal Information Processing Standards (FIPS) codes are assigned for a variety of geographic entities, including American Indian and Alaska Native area, congressional district, county, county subdivision, metropolitan area, place, and State. The structure, format, and meaning of FIPS

codes used in the census are shown in the 1990 census *Geographic Identification Code Scheme*; in the data dictionary portion of the technical documentation for summary tape files, CD-ROM's, and microfiche.

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

United States Postal Service (USPS) Code

United States Postal Service (USPS) codes for States are used in all 1990 data products. The codes are two-character alphabetic abbreviations. These codes are the same as the FIPS two-character alphabetic abbreviations.

GEOGRAPHIC PRESENTATION

Hierarchical Presentation

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

United States
 Region
 Division
 State
 County
 County subdivision
 Place (or part)
 Census tract/ block numbering area
 (or part)
 Block group (or part)
 Block

Inventory Presentation

An inventory presentation of geographic entities is one in which all entities of the same type are shown in alphabetical or code sequence, without reference to their hierarchical relationships. Generally, an inventory presentation shows totals for entities that may be split in a hierarchical presentation, such as place, census tract/

block numbering area, or block group. An example of a series of inventory presentations is: State, followed by all the counties in that State, followed by all the places in that State. Graphically, this is shown as:

State
County "A"
County "B"
County "C"

Place "X"
Place "Y"
Place "Z"

HISTORICAL COUNTS

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

In cases where an entity was formed since a preceding census, such as a newly incorporated place or a newly organized township, the symbol three dots "..." is shown for earlier censuses. The three-dot symbol also is shown for those parts of a place that have extended into an additional county or county subdivision through annexation or other revision of boundaries since the preceding census.

In a few cases, changes in the boundaries of county subdivisions caused a place to be split into two or more parts, or to be split differently than in the preceding census. If historical counts for the parts of the place as currently split did not appear in a preceding census, "(NA)" is shown for the place in each county subdivision; however, the historical population and housing unit counts of the place appear in tables that show the entire place. For counties, county subdivisions, and places formed since January 1, 1980, 1980 census population and housing unit counts in the 1990 territory are reported in the geographic change notes included in the "User Notes" text section of 1990 CPH-2, *Population and Housing Unit Counts*, and in the technical documentation of Summary Tape Files 1 and 3.

In some cases, population and housing unit counts for individual areas were revised since publication of the 1980 reports (indicated by the prefix "r"). In a number of tables of 1990 CPH-2, *Population and Housing Unit Counts*, 1980 counts are shown for aggregations of individual areas,

such as the number, population, and housing unit counts of places in size groups, or urban and rural distributions. Revisions of population and housing unit counts for individual areas were not applied to the various aggregations. Therefore, it may not be possible to determine the individual areas in a given aggregation using the historical counts; conversely, the sum of the counts shown for individual areas may not agree with the aggregation.

INTERNAL POINT

An internal point is a set of geographic coordinates (latitude and longitude) that is located within a specified geographic entity. A single point is identified for each entity; for many entities, this point represents the approximate geographic center of that entity. If the shape of the entity caused this point to be located outside the boundaries of the entity, it is relocated from the center so that it is within the entity. If the internal point for a block falls in a water area, it is relocated to a land area within the block. On machine-readable products, internal points are shown to six decimal places; the decimal point is implied.

METROPOLITAN AREA (MA)

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

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

Each MA must contain either a place with a minimum population of 50,000 or a Census Bureau-defined urbanized area and a total MA population of at least 100,000 (75,000 in New England). An MA comprises one or more central counties. An MA also may include one or more outlying counties that have close economic and social relationships with the central county. An outlying county must have a specified level of commuting to the central counties and also must meet certain standards regarding metropolitan character, such as population density, urban population, and population growth. In New England, MA's are composed of cities and towns rather than whole counties.

The territory, population, and housing units in MA's are referred to as "metropolitan." The metropolitan category is subdivided into "inside central city" and "outside central city." The territory, population, and housing units located outside MA's are referred to as "nonmetropolitan." The

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

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

Central City

In each MSA and CMSA, the largest place and, in some cases, additional places are designated as "central cities" under the official standards. A few PMSA's do not have central cities. The largest central city and, in some cases, up to two additional central cities are included in the title of the MA; there also are central cities that are not included in an MA title. An MA central city does not include any part of that city that extends outside the MA boundary.

Consolidated and Primary Metropolitan Statistical Area (CMSA and PMSA)

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

Metropolitan Statistical Area (MSA)

Metropolitan statistical areas (MSA's) are relatively free-standing MA's and are not closely associated with other MA's. These areas typically are surrounded by nonmetropolitan counties.

Metropolitan Area Title and Code

The title of an MSA contains the name of its largest central city and up to two additional city names, provided that the additional places meet specified levels of population, employment, and commuting. Generally, a city with a population of 250,000 or more is in the title, regardless of other criteria.

The title of a PMSA may contain up to three place names, as determined above, or up to three county names, sequenced in order of population. A CMSA title also may include up to three names, the first of which generally is

the most populous central city in the area. The second name may be the first city or county name in the most populous remaining PMSA; the third name may be the first city or county name in the next most populous PMSA. A regional designation may be substituted for the second and/ or third names in a CMSA title if such a designation is supported by local opinion and is deemed to be unambiguous and suitable by the Office of Management and Budget.

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

OUTLYING AREAS OF THE UNITED STATES

The Census Bureau treats the outlying areas as the statistical equivalents of States for the 1990 census. The outlying areas are American Samoa, Guam, the Commonwealth of the Northern Mariana Islands (Northern Mariana Islands), Republic of Palau (Palau), Puerto Rico, and the Virgin Islands of the United States (Virgin Islands). Geographic definitions specific to each outlying area are shown in appendix A of the text in the data products for each area.

PLACE

Places, for the reporting of decennial census data, include census designated places and incorporated places. Each place is assigned a four-digit census code that is unique within State. Each place is also assigned a five-digit FIPS code that is unique within State. Both the census and FIPS codes are assigned based on alphabetical order within State. Consolidated cities (see below) are assigned a one-character alphabetical census code that is unique nationwide and a five-digit FIPS code that is unique within State.

Census Designated Place (CDP)

Census designated places (CDP's) are delineated for the decennial census as the statistical counterparts of incorporated places. CDP's comprise densely settled concentrations of population that are identifiable by name, but are not legally incorporated places. Their boundaries, which usually coincide with visible features or the boundary of an adjacent incorporated place, have no legal status, nor do these places have officials elected to serve traditional municipal functions. CDP boundaries may change with changes in the settlement pattern; a CDP with the same name as in previous censuses does not necessarily have the same boundaries.

Beginning with the 1950 census, the Census Bureau, in cooperation with State agencies and local census statistical areas committees, has identified and delineated boundaries for CDP's. In the 1990 census, the name of each such place is followed by "CDP." In the 1980 census, "(CDP)" was used; in 1970, 1960, and 1950 censuses, these places were identified by "(U)," meaning "unincorporated place."

To qualify as a CDP for the 1990 census, an unincorporated community must have met the following criteria:

1. In all States except Alaska and Hawaii, the Census Bureau uses three population size criteria to designate a CDP. These criteria are:
 - a. 1,000 or more persons if outside the boundaries of an urbanized area (UA) delineated for the 1980 census or a subsequent special census.
 - b. 2,500 or more persons if inside the boundaries of a UA delineated for the 1980 census or a subsequent special census.
 - c. 250 or more persons if outside the boundaries of a UA delineated for the 1980 census or a subsequent special census, and within the official boundaries of an American Indian reservation recognized for the 1990 census.
2. In Alaska, 25 or more persons if outside a UA, and 2,500 or more persons if inside a UA delineated for the 1980 census or a subsequent special census.
3. In Hawaii, 300 or more persons, regardless of whether the community is inside or outside a UA.

For the 1990 census, CDP's qualified on the basis of the population counts prepared for the 1990 Postcensus Local Review Program. Because these counts were subject to change, a few CDP's may have final population counts lower than the minimums shown above.

Hawaii is the only State with no incorporated places recognized by the Bureau of the Census. All places shown for Hawaii in the data products are CDP's. By agreement with the State of Hawaii, the Census Bureau does not show data separately for the city of Honolulu, which is coextensive with Honolulu County.

Consolidated City

A consolidated government is a unit of local government for which the functions of an incorporated place and its county or minor civil division (MCD) have merged. The legal aspects of this action may result in both the primary incorporated place and the county or MCD continuing to exist as legal entities, even though the county or MCD performs few or no governmental functions and has few or no elected officials. Where this occurs, and where one or more other incorporated places in the county or MCD

continue to function as separate governments, even though they have been included in the consolidated government, the primary incorporated place is referred to as a "consolidated city."

The data presentation for consolidated cities varies depending upon the geographic presentation. In hierarchical presentations, consolidated cities are not shown. These presentations include the semi-independent places and the "consolidated city (remainder)." Where the consolidated city is coextensive with a county or county subdivision, the data shown for those areas in hierarchical presentations are equivalent to those for the consolidated government.

For inventory geographic presentations, the consolidated city appears at the end of the listing of places. The data for the consolidated city include places that are part of the consolidated city. The "consolidated city (remainder)" is the portion of the consolidated government minus the semi-independent places, and is shown in alphabetical sequence with other places.

In summary presentations by size of place, the consolidated city is not included. The places semi-independent of consolidated cities are categorized by their size, as is the "consolidated city (remainder)."

Each consolidated city is assigned a one-character alphabetic census code. Each consolidated city also is assigned a five-digit FIPS code that is unique within State. The semi-independent places and the "consolidated city (remainder)" are assigned a four-digit census code and a five-digit FIPS place code that are unique within State. Both the census and FIPS codes are assigned based on alphabetical order within State.

Incorporated Place

Incorporated places recognized in 1990 census data products are those reported to the Census Bureau as legally in existence on January 1, 1990 under the laws of their respective States as cities, boroughs, towns, and villages, with the following exceptions: the towns in the New England States, New York, and Wisconsin, and the boroughs in New York are recognized as minor civil divisions for census purposes; the boroughs in Alaska are county equivalents.

POPULATION OR HOUSING UNIT DENSITY

Population or housing unit density is computed by dividing the total population or housing units of a geographic unit (for example, United States, State, county, place) by its land area measured in square kilometers or square miles. Density is expressed as both "persons (or housing units) per square kilometer" and "persons (or housing units) per square mile" of land area in 1990 census printed reports.

STATE

States are the primary governmental divisions of the United States. The District of Columbia is treated as a statistical equivalent of a State for census purposes. The four census regions, nine census divisions, and their component States are shown under "CENSUS REGION AND CENSUS DIVISION" in this appendix.

The Census Bureau treats the outlying areas as State equivalents for the 1990 census. The outlying areas are American Samoa, Guam, the Northern Mariana Islands, Palau, Puerto Rico, and the Virgin Islands of the United States. Geographic definitions specific to each outlying area are shown in appendix A in the data products for each area.

Each State and equivalent is assigned a two-digit numeric Federal Information Processing Standards (FIPS) code in alphabetical order by State name, followed by the outlying area names. Each State and equivalent area also is assigned a two-digit census code. This code is assigned on the basis of the geographic sequence of each State within each census division; the first digit of the code is the code for the respective division. Puerto Rico, the Virgin Islands, and the outlying areas of the Pacific are assigned "0" as the division code. Each State and equivalent area also is assigned the two-letter FIPS/ United States Postal Service (USPS) code.

In 12 selected States (Connecticut, Maine, Massachusetts, Michigan, Minnesota, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont, and Wisconsin), the minor civil divisions also serve as general-purpose local governments. The Census Bureau presents data for these minor civil divisions in all data products in which it provides data for places.

TIGER

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

UNITED STATES

The United States comprises the 50 States and the District of Columbia. In addition, the Census Bureau treats

the outlying areas as statistical equivalents of States for the 1990 census. The outlying areas include American Samoa, Guam, the Northern Mariana Islands, Palau, Puerto Rico, and the Virgin Islands.

URBAN AND RURAL

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

1. Places of 2,500 or more persons incorporated as cities, villages, boroughs (except in Alaska and New York), and towns (except in the six New England States, New York, and Wisconsin), but excluding the rural portions of "extended cities."
2. Census designated places of 2,500 or more persons.
3. Other territory, incorporated or unincorporated, included in urbanized areas.

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

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

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

In censuses prior to 1950, "urban" comprised all territory, persons, and housing units in incorporated places of 2,500 or more persons, and in areas (usually minor civil divisions) classified as urban under special rules relating to population size and density. The definition of urban that restricted itself to incorporated places having 2,500 or more persons excluded many large, densely settled areas merely because they were not incorporated. Prior to the 1950 census, the Census Bureau attempted to avoid some of the more obvious omissions by classifying selected areas as "urban under special rules." Even with these rules, however, many large, closely built-up areas were excluded from the urban category.

To improve its measure of urban territory, population, and housing units, the Census Bureau adopted the concept of the urbanized area and delineated boundaries for

unincorporated places (now, census designated places) for the 1950 census. Urban was defined as territory, persons, and housing units in urbanized areas and, outside urbanized areas, in all places, incorporated or unincorporated, that had 2,500 or more persons. With the following three exceptions, the 1950 census definition of urban has continued substantially unchanged. First, in the 1960 census (but not in the 1970, 1980, or 1990 censuses), certain towns in the New England States, townships in New Jersey and Pennsylvania, and Arlington County, Virginia, were designated as urban. However, most of these "special rule" areas would have been classified as urban anyway because they were included in an urbanized area or in an unincorporated place of 2,500 or more persons. Second, "extended cities" were identified for the 1970, 1980, and 1990 censuses. Extended cities primarily affect the figures for urban and rural territory (area), but have very little effect on the urban and rural population and housing units at the national and State levels— although for some individual counties and urbanized areas, the effects have been more evident. Third, changes since the 1970 census in the criteria for defining urbanized areas have permitted these areas to be defined around smaller centers.

Documentation of the urbanized area and extended city criteria is available from the Chief, Geography Division, U.S. Bureau of the Census, Washington, DC 20233.

Extended City

Since the 1960 census, there has been a trend in some States toward the extension of city boundaries to include territory that is essentially rural in character. The classification of all the population and living quarters of such places as urban would include in the urban designation territory, persons, and housing units whose environment is primarily rural. For the 1970, 1980, and 1990 censuses, the Census Bureau identified as rural such territory and its population and housing units for each extended city whose closely settled area was located in an urbanized area. For the 1990 census, this classification also has been applied to certain places outside urbanized areas.

In summary presentations by size of place, the urban portion of an extended city is classified by the population of the entire place; the rural portion is included in "other rural."

URBANIZED AREA (UA)

The Census Bureau delineates urbanized areas (UA's) to provide a better separation of urban and rural territory, population, and housing in the vicinity of large places. A UA comprises one or more places ("central place") and the adjacent densely settled surrounding territory ("urban fringe") that together have a minimum of 50,000 persons. The urban fringe generally consists of contiguous territory having a density of least 1,000 persons per square mile. The urban fringe also includes outlying territory of such

density if it was connected to the core of the contiguous area by road and is within 1 1/2 road miles of that core, or within 5 road miles of the core but separated by water or other undevelopable territory. Other territory with a population density of fewer than 1,000 people per square mile is included in the urban fringe if it eliminates an enclave or closes an indentation in the boundary of the urbanized area. The population density is determined by (1) outside of a place, one or more contiguous census blocks with a population density of at least 1,000 persons per square mile or (2) inclusion of a place containing census blocks that have at least 50 percent of the population of the place and a density of at least 1,000 persons per square mile. The complete criteria are available from the Chief, Geography Division, U.S. Bureau of the Census, Washington, DC 20233.

Urbanized Area Central Place

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

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

Urbanized Area Title and Code

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

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

VOTING DISTRICT (VTD)

A voting district (VTD) is any of a variety of types of areas (for example, election districts, precincts, wards, legislative districts) established by State and local governments for purposes of elections. For census purposes,

each State participating in Phase 2 of the 1990 Census Redistricting Data Program outlined the boundaries of VTD's around groups of whole census blocks on census maps. The entities identified as VTD's are not necessarily those legally or currently established. Also, to meet the "whole block" criterion, a State may have had to adjust VTD boundaries to nearby block boundaries. Therefore, the VTD's shown on the 1990 census tapes, listings, and maps may not represent the actual VTD's in effect at the time of the census. In the 1980 census, VTD's were referred to as "election precincts."

Each VTD is assigned a four-character alphanumeric code that is unique within each county. The code "ZZZZ" is assigned to nonparticipating areas; the Census Bureau reports data for areas coded "ZZZZ."

ZIP CODE®

ZIP Codes are administrative units established by the United States Postal Service (USPS) for the distribution of mail. ZIP Codes serve addresses for the most efficient delivery of mail, and therefore generally do not respect political or census statistical area boundaries. ZIP Codes usually do not have clearly identifiable boundaries, often serve a continually changing area, are changed periodically to meet postal requirements, and do not cover all the land area of the United States. ZIP Codes are identified by five-digit codes assigned by the USPS. The first three digits identify a major city or sectional distribution center, and the last two digits generally signify a specific post office's delivery area or point. For the 1990 census, ZIP Code data are tabulated for the five-digit codes in STF 3B.

APPENDIX B.

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POPULATION CHARACTERISTICS

AGE

The data on age were derived from answers to questionnaire item 5, which was asked of all persons. The age classification is based on the age of the person in complete years as of April 1, 1990. The age response in question 5a was used normally to represent a person's age. However, when the age response was unacceptable or unavailable, a person's age was derived from an acceptable year-of-birth response in question 5b.

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

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

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

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

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

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

Comparability—Age data have been collected in every census. For the first time since 1950, the 1990 data are not available by quarter year of age. This change was made so that coded information could be obtained for both age and year of birth. In each census since 1940, the age of a person was assigned when it was not reported. In censuses before 1940, with the exception of 1880, persons of unknown age were shown as a separate category. Since 1960, assignment of unknown age has been performed by a general procedure described as "imputation." The specific procedures for imputing age have been different in each census. (For more information on imputation, see Appendix C, Accuracy of the Data.)

ANCESTRY

The data on ancestry were derived from answers to questionnaire item 13, which was asked of a sample of persons. The question was based on self-identification; the data on ancestry represent self-classification by people according to the ancestry group(s) with which they most closely identify. Ancestry refers to a person's ethnic origin or descent, "roots," or heritage or the place of birth of the person or the person's parents or ancestors before their arrival in the United States. Some ethnic identities, such as "Egyptian" or "Polish" can be traced to geographic areas outside the United States, while other ethnicities such as "Pennsylvania Dutch" or "Cajun" evolved in the United States.

The intent of the ancestry question was not to measure the degree of attachment the respondent had to a particular ethnicity. For example, a response of "Irish" might reflect total involvement in an "Irish" community or only a memory of ancestors several generations removed from the individual.

The Census Bureau coded the responses through an automated review, edit, and coding operation. The open-ended write-in ancestry item was coded by subject-matter specialists into a numeric representation using a code list containing over 1,000 categories. The 1990 code list reflects the results of the Census Bureau's own research and consultations with many ethnic experts. Many decisions were made to determine the classification of responses. These decisions affected the grouping of the tabulated data. For example, the "Assyrian" category includes both responses of "Assyrian" and "Chaldean."

The ancestry question allowed respondents to report one or more ancestry groups. While a large number of respondents listed a single ancestry, the majority of answers included more than one ethnic entry. Generally, only the first two responses reported were coded in 1990. If a response was in terms of a dual ancestry, for example, Irish-English, the person was assigned two codes, in this case one for Irish and another for English.

However, in certain cases, multiple responses such as "French Canadian," "Scotch-Irish," "Greek Cypriote," and "Black Dutch" were assigned a single code reflecting their status as unique groups. If a person reported one of these unique groups in addition to another group, for example, "Scotch-Irish English," resulting in three terms, that person received one code for the unique group ("Scotch-Irish") and another one for the remaining group ("English"). If a person reported "English Irish French," only English and Irish were coded. Certain combinations of ancestries where the ancestry group is a part of another, such as "German-Bavarian," the responses were coded as a single ancestry using the smaller group ("Bavarian"). Also, responses such as "Polish-American" or "Italian-American" were coded and tabulated as a single entry ("Polish" or "Italian").

The Census Bureau accepted "American" as a unique ethnicity if it was given alone, with an ambiguous response, or with State names. If the respondent listed any other ethnic identity such as "Italian American," generally the "American" portion of the response was not coded. However, distinct groups such as "American Indian," "Mexican American," and "African American" were coded and identified separately because they represented groups who considered themselves different from those who reported as "Indian," "Mexican," or "African," respectively.

In all tabulations, when respondents provided an unacceptable ethnic identity (for example, an uncodeable or unintelligible response such as "multi-national," "adopted," or "I have no idea"), the answer was included in "Ancestry not reported."

The tabulations on ancestry are presented using two types of data presentations—one used total persons as the base, and the other used total responses as the base. The following are categories shown in the two data presentations:

Presentation Based on Persons:

Single Ancestries Reported—Includes all persons who reported only one ethnic group. Included in this

category are persons with multiple-term responses such as "Scotch-Irish" who are assigned a single code.

Multiple Ancestries Reported—Includes all persons who reported more than one group and were assigned two ancestry codes.

Ancestry Unclassified—Includes all persons who provided a response that could not be assigned an ancestry code because they provided nonsensical entries or religious responses.

Presentations Based on Responses:

Total Ancestries Reported—Includes the total number of ancestries reported and coded. If a person reported a multiple ancestry such as "French Danish," that response was counted twice in the tabulations—once in the "French" category and again in the "Danish" category. Thus, the sum of the counts in this type of presentation is not the total population but the total of all responses.

First Ancestry Reported—Includes the first response of all persons who reported at least one codeable entry. For example, in this category, the count for "Danish" would include all those who reported only Danish and those who reported Danish first and then some other group.

Second Ancestry Reported—Includes the second response of all persons who reported a multiple ancestry. Thus, the count for "Danish" in this category includes all persons who reported Danish as the second response, regardless of the first response provided.

The Census Bureau identified hundreds of ethnic groups in the 1990 census. However, it was impossible to show information for every group in all census tabulations because of space constraints. Publications such as the 1990 CP-2, *Social and Economic Characteristics* and the 1990 CPH-3, *Population and Housing Characteristics for Census Tracts and Block Numbering Areas* reports show a limited number of groups based on the number reported and the advice received from experts. A more complete distribution of groups is presented in the 1990 Summary Tape File 4, supplementary reports, and a special subject report on ancestry. In addition, groups identified specifically in the questions on race and Hispanic origin (for example, Japanese, Laotian, Mexican, Cuban, and Spaniard), in general, are not shown separately in ancestry tabulations.

Limitation of the Data—Although some experts consider religious affiliation a component of ethnic identity, the ancestry question was not designed to collect any information concerning religion. The Bureau of the Census is prohibited from collecting information on religion. Thus, if a religion was given as an answer to the ancestry question, it was coded as an "Other" response.

Comparability—A question on ancestry was first asked in the 1980 census. Although there were no comparable data prior to the 1980 census, related information on ethnicity was collected through questions on parental birthplace, own birthplace, and language which were included in previous censuses. Unlike other census questions, there was no imputation for nonresponse to the ancestry question.

In 1990, respondents were allowed to report more than one ancestry group; however, only the first two ancestry groups identified were coded. In 1980, the Census Bureau attempted to code a third ancestry for selected triple-ancestry responses.

New categories such as “Arab” and “West Indian” were added to the 1990 question to meet important data needs. The “West Indian” category excluded “Hispanic” groups such as “Puerto Rican” and “Cuban” that were identified primarily through the question on Hispanic origin. In 1990, the ancestry group, “American” is recognized and tabulated as a unique ethnicity. In 1980, “American” was tabulated but included under the category “Ancestry not specified.”

A major improvement in the 1990 census was the use of an automated coding system for ancestry responses. The automated coding system used in the 1990 census greatly reduced the potential for error associated with a clerical review. Specialists with a thorough knowledge of the subject matter reviewed, edited, coded, and resolved inconsistent or incomplete responses.

CITIZENSHIP

The data on citizenship were derived from answers to questionnaire item 9, which was asked of a sample of persons.

Citizen—Persons who indicated that they were native-born and foreign-born persons who indicated that they have become naturalized. (For more information on native and foreign born, see the discussion under “Place of Birth.”)

There are four categories of citizenship: (1) born in the United States, (2) born in Puerto Rico, Guam, the Virgin Islands of the United States, or the Commonwealth of the Northern Mariana Islands, (3) born abroad of American parents, and (4) citizen by naturalization.

Naturalized Citizen—Foreign-born persons who had completed the naturalization process at the time of the census and upon whom the rights of citizenship had been conferred.

Not a Citizen—Foreign-born persons who were not citizens, including persons who had begun but not completed the naturalization process at the time of the census.

Limitation of the Data—Evaluation studies completed after previous censuses indicated that some persons may have reported themselves as citizens although they had not yet attained the status.

Comparability—Similar questions on citizenship were asked in the censuses of 1820, 1830, 1870, 1890 through 1950, 1970, and 1980. The 1980 question was asked of a sample of the foreign-born population. In 1990, both native and foreign-born persons who received the long-form questionnaire were asked to respond to the citizenship question.

EDUCATIONAL ATTAINMENT

Data on educational attainment were derived from answers to questionnaire item 12, which was asked of a sample of persons. Data are tabulated as attainment for persons 15 years old and over. Persons are classified according to the highest level of school completed or the highest degree received. The question included instructions to report the level of the previous grade attended or the highest degree received for persons currently enrolled in school. The question included response categories which allowed persons to report completing the 12th grade without receiving a high school diploma, and which instructed respondents to report as “high school graduate(s)” — persons who received either a high school diploma or the equivalent, for example, passed the Test of General Educational Development (G.E.D.), and did not attend college. (On the Military Census Report questionnaire, the lowest response category was “Less than 9th grade.”)

Instructions included in the 1990 respondent instruction guide, which was mailed with the census questionnaire, further specified that schooling completed in foreign or ungraded school systems should be reported as the equivalent level of schooling in the regular American system; that vocational certificates or diplomas from vocational, trade, or business schools or colleges were not to be reported unless they were college level degrees; and that honorary degrees were not to be reported. The instructions gave “medicine, dentistry, chiropractic, optometry, osteopathic medicine, pharmacy, podiatry, veterinary medicine, law, and theology” as examples of professional school degrees, and specifically excluded “barber school, cosmetology, or other training for a specific trade” from the professional school category. The order in which they were listed suggested that doctorate degrees were “higher” than professional school degrees, which were “higher” than master’s degrees.

Persons who did not report educational attainment were assigned the attainment of a person of the same age, race or Spanish origin, and sex who resided in the same or a nearby area. Persons who filled more than one circle were edited to the highest level or degree reported.

High School Graduate or Higher—Includes persons whose highest degree was a high school diploma or

its equivalent, persons who attended college or professional school, and persons who received a college, university, or professional degree. Persons who reported completing the 12th grade but not receiving a diploma are not included.

Not Enrolled, Not High School Graduate—Includes persons of compulsory school attendance age or above who were not enrolled in school and were not high school graduates; these persons may be taken to be “high school dropouts.” There is no restriction on when they “dropped out” of school, and they may have never attended high school.

In prior censuses, “Median school years completed” was used as a summary measure of educational attainment. In 1990, the median can only be calculated for groups of which less than half the members have attended college. “Percent high school graduate or higher” and “Percent bachelor’s degree or higher” are summary measures which can be calculated from the present data and offer quite readily interpretable measures of differences between population subgroups. To make comparisons over time, “Percent high school graduate or higher” can be calculated and “Percent bachelor’s degree or higher” can be approximated with data from previous censuses.

Comparability—From 1840 to 1930, the census measured educational attainment by means of a basic literacy question. In 1940, a single question was asked on highest grade of school completed. In the censuses of 1950 through 1980, a two-part question asking highest grade of school attended and whether that grade was finished was used to construct highest grade or year of school completed. For persons who have not attended college, the response categories in the 1990 educational attainment question should produce data which are comparable to data on highest grade completed from earlier censuses.

The response categories for persons who have attended college were modified from earlier censuses because there was some ambiguity in interpreting responses in terms of the number of years of college completed. For instance, it was not clear whether “completed the fourth year of college,” “completed the senior year of college,” and “college graduate” were synonymous. Research conducted shortly before the census suggests that these terms were more distinct in 1990 than in earlier decades, and this change may have threatened the ability to estimate the number of “college graduates” from the number of persons reported as having completed the fourth or a higher year of college. It was even more difficult to make inferences about post-baccalaureate degrees and “Associate” degrees from highest year of college completed. Thus, comparisons of post-secondary educational attainment in this and earlier censuses should be made with great caution.

In the 1960 and subsequent censuses, persons for whom educational attainment was not reported were assigned the same attainment level as a similar person whose

residence was in the same or a nearby area. In the 1940 and 1950 censuses, persons for whom educational attainment was not reported were not allocated.

EMPLOYMENT STATUS

The data on employment status were derived from answers to questionnaire items 21, 25, and 26, which were asked of a sample of persons. The series of questions on employment status was asked of all persons 15 years old and over and was designed to identify, in this sequence: (1) persons who worked at any time during the reference week; (2) persons who did not work during the reference week but who had jobs or businesses from which they were temporarily absent (excluding layoff); (3) persons on layoff; and (4) persons who did not work during the reference week, but who were looking for work during the last four weeks and were available for work during the reference week. (For more information, see the discussion under “Reference Week.”)

The employment status data shown in this and other 1990 census tabulations relate to persons 16 years old and over. Some tabulations showing employment status, however, include persons 15 years old. By definition, these persons are classified as “Not in Labor Force.” In the 1940, 1950, and 1960 censuses, employment status data were presented for persons 14 years old and over. The change in the universe was made in 1970 to agree with the official measurement of the labor force as revised in January 1967 by the U.S. Department of Labor. The 1970 census was the last to show employment data for persons 14 and 15 years old.

Employed—All civilians 16 years old and over who were either (1) “at work”—those who did any work at all during the reference week as paid employees, worked in their own business or profession, worked on their own farm, or worked 15 hours or more as unpaid workers on a family farm or in a family business; or (2) were “with a job but not at work”—those who did not work during the reference week but had jobs or businesses from which they were temporarily absent due to illness, bad weather, industrial dispute, vacation, or other personal reasons. Excluded from the employed are persons whose only activity consisted of work around the house or unpaid volunteer work for religious, charitable, and similar organizations; also excluded are persons on active duty in the United States Armed Forces.

Unemployed—All civilians 16 years old and over are classified as unemployed if they (1) were neither “at work” nor “with a job but not at work” during the reference week, and (2) were looking for work during the last 4 weeks, and (3) were available to accept a job. Also included as unemployed are civilians who did not work at all during the reference week and were waiting to be called back to a job from which they had been laid off. Examples of job seeking activities are:

- Registering at a public or private employment office
- Meeting with prospective employers
- Investigating possibilities for starting a professional practice or opening a business
- Placing or answering advertisements
- Writing letters of application
- Being on a union or professional register

Civilian Labor Force—Consists of persons classified as employed or unemployed in accordance with the criteria described above.

Experienced Unemployed—These are unemployed persons who have worked at any time in the past.

Experienced Civilian Labor Force—Consists of the employed and the experienced unemployed.

Labor Force—All persons classified in the civilian labor force plus members of the U.S. Armed Forces (persons on active duty with the United States Army, Air Force, Navy, Marine Corps, or Coast Guard).

Not in Labor Force—All persons 16 years old and over who are not classified as members of the labor force. This category consists mainly of students, housewives, retired workers, seasonal workers enumerated in an *off* season who were not looking for work, institutionalized persons, and persons doing only incidental unpaid family work (less than 15 hours during the reference week).

Worker—This term appears in connection with several subjects: journey-to-work items, class of worker, weeks worked in 1989, and number of workers in family in 1989. Its meaning varies and, therefore, should be determined in each case by referring to the definition of the subject in which it appears.

Actual Hours Worked Last Week—All persons who reported working during the reference week were asked to report in questionnaire item 21b the number of hours that they worked. The statistics on hours worked pertain to the number of hours actually worked at all jobs, and do not necessarily reflect the number of hours typically or usually worked or the scheduled number of hours. The concept of “actual hours” differs from that of “usual hours” described below. The number of persons who worked only a small number of hours is probably understated since such persons sometimes consider themselves as not working. Respondents were asked to include overtime or extra hours worked, but to exclude lunch hours, sick leave, and vacation leave.

Limitation of the Data—The census may understate the number of employed persons because persons who have irregular, casual, or unstructured jobs sometimes report themselves as not working. The number of employed persons “at work” is probably overstated in the census (and conversely, the number of employed “with a job, but not at work” is understated) since some persons on vacation or sick leave erroneously reported themselves as working. This problem has no effect on the total number of employed persons. The reference week for the employment data is not the same for all persons. Since persons can change their employment status from one week to another, the lack of a uniform reference week may mean that the employment data do not reflect the reality of the employment situation of any given week. (For more information, see the discussion under “Reference Week.”)

Comparability—The questionnaire items and employment status concepts for the 1990 census are essentially the same as those used in the 1980 and 1970 censuses. However, these concepts differ in many respects from those associated with the 1950 and 1960 censuses.

Since employment data from the census are obtained from respondents in households, they differ from statistics based on reports from individual business establishments, farm enterprises, and certain government programs. Persons employed at more than one job are counted only once in the census and are classified according to the job at which they worked the greatest number of hours during the reference week. In statistics based on reports from business and farm establishments, persons who work for more than one establishment may be counted more than once. Moreover, some tabulations may exclude private household workers, unpaid family workers, and self-employed persons, but may include workers less than 16 years of age.

An additional difference in the data arises from the fact that persons who had a job but were not at work are included with the employed in the census statistics, whereas many of these persons are likely to be excluded from employment figures based on establishment payroll reports. Furthermore, the employment status data in census tabulations include persons on the basis of place of residence regardless of where they work, whereas establishment data report persons at their place of work regardless of where they live. This latter consideration is particularly significant when comparing data for workers who commute between areas.

Census data on actual hours worked during the reference week may differ from data from other sources. The census measures hours actually worked, whereas some surveys measure hours paid for by employers. Comparability of census actual hours worked data may also be affected by the nature of the reference week (see “Reference Week”).

For several reasons, the unemployment figures of the Census Bureau are not comparable with published figures on unemployment compensation claims. For example,

figures on unemployment compensation claims exclude persons who have exhausted their benefit rights, new workers who have not earned rights to unemployment insurance, and persons losing jobs not covered by unemployment insurance systems (including some workers in agriculture, domestic services, and religious organizations, and self-employed and unpaid family workers). In addition, the qualifications for drawing unemployment compensation differ from the definition of unemployment used by the Census Bureau. Persons working only a few hours during the week and persons with a job but not at work are sometimes eligible for unemployment compensation but are classified as "Employed" in the census. Differences in the geographical distribution of unemployment data arise because the place where claims are filed may not necessarily be the same as the place of residence of the unemployed worker.

The figures on employment status from the decennial census are generally comparable with similar data collected in the Current Population Survey. However, some difference may exist because of variations in enumeration and processing techniques.

FERTILITY

The data on fertility (also referred to as "children ever born") were derived from answers to questionnaire item 20, which was asked of a sample of women 15 years old and over regardless of marital status. Stillbirths, stepchildren, and adopted children were excluded from the number of children ever born. Ever-married women were instructed to include all children born to them before and during their most recent marriage, children no longer living, and children away from home, as well as children who were still living in the home. Never-married women were instructed to include all children born to them.

Data are most frequently presented in terms of the aggregate number of children ever born to women in the specified category and in terms of the rate per 1,000 women. For purposes of calculating the aggregate, the open-ended response category, "12 or more" is assigned a value of 13.

Limitation of the Data—Although the data are assumed to be less complete for out-of-wedlock births than for births occurring within marriage, comparisons of 1980 census data on the fertility of single women with other census sources and administrative records indicate that no significant differences were found between different data sources; that is, 1980 census data on children ever born to single women were complete with no significant understatements of childbearing.

Comparability—The wording of the question on children ever born was the same in 1990 as in 1980. In 1970, however, the question on children ever born was asked of all ever-married women but only of never-married women

who received self-administered questionnaires. Therefore, rates and numbers of children ever born to single women in 1970 may be understated. Data presented for children ever born to ever-married women are comparable for the 1990 census and all previous censuses containing this question.

GROUP QUARTERS

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

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

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

Correctional Institutions—Includes prisons, Federal detention centers, military stockades and jails, police lockups, halfway houses, local jails, and other confinement facilities, including work farms.

Prisons—Where persons convicted of crimes serve their sentences. In some census products, the prisons are classified by two types of control: (1) "Federal" (operated by the Bureau of Prisons of the Department of Justice) and (2) "State." Residents who are criminally insane were classified on the basis of where they resided at the time of enumeration: (1) in institutions (or hospital wards)

operated by departments of correction or similar agencies; or (2) in institutions operated by departments of mental health or similar agencies.

Federal Detention Centers—Operated by the Immigration and Naturalization Service (INS) and the Bureau of Prisons. These facilities include detention centers used by the Park Police; Bureau of Indian Affairs Detention Centers; INS Centers, such as the INS Federal Alien Detention Facility; INS Processing Centers; and INS Contract Detention Centers used to detain aliens under exclusion or deportation proceedings, as well as those aliens who have not been placed into proceedings, such as custodial required departures; and INS Detention Centers operated within local jails, and State and Federal prisons.

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

Local Jails and Other Confinement Facilities—Includes facilities operated by counties and cities that primarily hold persons beyond arraignment, usually for more than 48 hours. Also included in this category are work farms used to hold persons awaiting trial or serving time on relatively short sentences and jails run by private businesses under contract for local governments (but *not* by State governments).

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

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

Other Types of Correctional Institutions—Privately operated correctional facilities and correctional facilities specifically for alcohol/ drug abuse.

Nursing Homes—Comprises a heterogeneous group of places. The majority of patients are elderly, although persons who require nursing care because of chronic physical conditions may be found in these homes regardless of their age. Included in this category are skilled-nursing facilities, intermediate-care facilities, long-term care rooms in wards or buildings on the grounds of hospitals, or long-term care rooms/nursing wings in congregate housing facilities. Also included are nursing, convalescent, and rest homes, such as soldiers', sailors', veterans', and fraternal or religious homes for the aged, with or without nursing care. In some census products, nursing homes are classified by type of ownership as "Federal," "State," "Private not-for-profit," and "Private for profit."

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

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

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

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

Hospitals, and Wards for Drug/ Alcohol Abuse—Includes hospitals, and hospital wards in psychiatric and general hospitals. These facilities are equipped medically and designed for the diagnosis and treatment of medical or psychiatric illnesses associated with alcohol or drug abuse. Patients receive supervised medical care from formally-trained staff.

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

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

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

Residential Treatment Centers—Includes those institutions which primarily serve children who, by clinical diagnosis, are moderately or seriously disturbed emotionally. Also, these institutions provide long-term treatment services, usually supervised or directed by a psychiatrist.

Training Schools for Juvenile Delinquents—Includes residential training schools or homes, and industrial schools, camps, or farms for juvenile delinquents.

Public Training Schools for Juvenile Delinquents—Usually operated by a State agency (for example, department of welfare, corrections, or a youth authority). Some are operated by county and city governments. These public training schools are specialized institutions serving delinquent children, generally between the ages of 10 and 17 years old, all of whom are committed by the courts.

Private Training Schools—Operated under private auspices. Some of the children they serve are committed by the courts as delinquents. Others are referred by parents or social agencies because of delinquent behavior. One difference between private and public training schools is that, by their administrative policy, private schools have control over their selection and intake.

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

Other Persons in Group Quarters (also referred to as “noninstitutional group quarters”)—Includes all persons who live in group quarters other than institutions. Persons who live in the following living quarters are

classified as “other persons in group quarters” when there are 10 or more unrelated persons living in the unit; otherwise, these living quarters are classified as housing units.

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

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

Homes for the Mentally Ill—Includes community-based homes that provide care primarily for the mentally ill. In some data products, this category is classified by type of ownership as “Federal,” “State,” “Private,” and “Ownership not known.” Homes which combine treatment of the physically handicapped with treatment of the mentally ill are counted as homes for the mentally ill.

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

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

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

Maternity Homes for Unwed Mothers—Includes persons with no usual home elsewhere in places that provide domestic care for unwed mothers and their

children. These homes may provide social services and post-natal care within the facility, or may make arrangements for women to receive such services in the community. Nursing services are usually available in the facility.

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

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

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

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

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

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

Agriculture Workers' Dormitories—Includes persons in migratory farm workers' camps on farms, bunkhouses for ranch hands, and other dormitories on farms, such as those on “tree farms.”

Other Workers' Dormitories—Includes persons in logging camps, construction workers' camps, firehouse dormitories, job-training camps, energy enclaves (Alaska only), and nonfarm migratory workers' camps (for example, workers in mineral and mining camps).

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

Emergency Shelters for Homeless Persons (with sleeping facilities)—Includes persons who stayed overnight on March 20, 1990, in permanent and temporary emergency housing, missions, hotels/ motels, and flophouses charging \$12 or less (excluding taxes) per night; Salvation Army shelters, hotels, and motels used *entirely* for homeless persons regardless of the nightly rate charged; rooms in hotels and motels used *partially* for the homeless; and similar places known to have persons who have no usual home elsewhere staying overnight. If not shown separately, shelters and group homes that provide *temporary* sleeping facilities for runaway, neglected, and homeless children are included in this category in data products.

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

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

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

Predesignated street sites include street corners, parks, bridges, persons emerging from abandoned and boarded-up buildings, noncommercial campsites (tent cities), all-night movie theaters, all-night restaurants, emergency hospital waiting rooms, train stations, airports, bus depots, and subway stations.

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

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

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

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

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

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

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

1. *Misclassification of Group Quarters*—During the 1990 Special Place Prelist operation, the enumerator determined the type of group quarters associated with each special place in their assignment. The enumerator used the Alphabetical Group Quarters Code List and Index to the Alphabetical Group Quarters Code List to assign a two-digit code number followed by either an “I,” for institutional, or an “N,” for noninstitutional to each group quarters. In 1990, unacceptable group quarter codes were edited. (For more information on editing of unacceptable data, see Appendix C, Accuracy of the Data.)

2. *No Classification (unknowns)*—The imputation rate for type of institution was higher in 1980 (23.5 percent) than in 1970 (3.3 percent). Improvements were made to the 1990 Alphabetical Group Quarters Code List; that is, the inclusion of more group quarters categories and an “Index to the Alphabetical Group Quarters Code List.” (For more information on the allocation rates for Type of Institution, see the allocation rates in 1990 CP-1, *General Population Characteristics*.)

In previous censuses, allocation rates for demographic characteristics (such as age, sex, race, and marital status) of the institutional population were similar to those for the total population. The allocation rates for sample characteristics such as school enrollment, highest grade completed, income, and veteran status for the institutional and noninstitutional group quarters population have been substantially higher than the population in households at least as far back as the 1960 census. The data, however, have historically presented a reasonable picture of the institutional and noninstitutional group quarters population.

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

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

1. How well enumerators were trained and how well they followed procedures.
2. How well the list of shelter and street locations given to the Census Bureau by the local government reflected the actual places that homeless persons stay at night.
3. Cities were encouraged to open temporary shelters for census night, and many did that and actively encouraged people to enter the shelters. Thus, people who may have been on the street otherwise were in shelters the night of March 20, so that the ratio of shelter-to-street population could be different than usual.
4. The weather, which was unusually cold in some parts of the country, could affect how likely people were to seek emergency shelter or to be more hidden than usual if they stayed outdoors.
5. The media occasionally interfered with the ability to do the count.
6. How homeless people perceived the census and whether they wanted to be counted or feared the census and hid from it.

The Census Bureau conducted two assessments of Shelter and Street Night: (1) the quality of the lists of shelters used for the Shelter-and-Street-Night operation, and (2) how well procedures were followed by census-takers for the street count in parts of five cities (Chicago, Los Angeles, New Orleans, New York, and Phoenix). Information about these two assessments is available from the Chief, Center for Survey Methods Research, Bureau of the Census, Washington, DC 20233.

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

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

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

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

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

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

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

HISPANIC ORIGIN

The data on Spanish/ Hispanic origin were derived from answers to questionnaire item 7, which was asked of all persons. Persons of Hispanic origin are those who classified themselves in one of the specific Hispanic origin categories listed on the questionnaire—“Mexican,” “Puerto Rican,” or “Cuban”—as well as those who indicated that they were of “other Spanish/ Hispanic” origin. Persons of “Other Spanish/ Hispanic” origin are those whose origins are from Spain, the Spanish-speaking countries of Central or South America, or the Dominican Republic, or they are persons of Hispanic origin identifying themselves generally as Spanish, Spanish-American, Hispanic, Hispano, Latino, and so on. Write-in responses to the “other Spanish/ Hispanic” category were coded only for sample data.

Origin can be viewed as the ancestry, nationality group, lineage, or country of birth of the person or the person’s parents or ancestors before their arrival in the United States. Persons of Hispanic origin may be of any race.

Some tabulations are shown by the Hispanic origin of the householder. In all cases where households, families, or occupied housing units are classified by Hispanic origin, the Hispanic origin of the householder is used. (See the discussion of householder under “Household Type and Relationship.”)

During direct interviews conducted by enumerators, if a person could not provide a single origin response, he or she was asked to select, based on self-identification, the group which best described his or her origin or descent. If a person could not provide a single group, the origin of the person’s mother was used. If a single group could not be provided for the person’s mother, the first origin reported by the person was used.

If any household member failed to respond to the Spanish/ Hispanic origin question, a response was assigned by the computer according to the reported entries of other household members by using specific rules of precedence of household relationship. In the processing of sample

questionnaires, responses to other questions on the questionnaire, such as ancestry and place of birth, were used to assign an origin before any reference was made to the origin reported by other household members. If an origin was not entered for any household member, an origin was assigned from another household according to the race of the householder. This procedure is a variation of the general imputation process described in Appendix C, Accuracy of the Data.

Comparability—There may be differences between the total Hispanic origin population based on 100-percent tabulations and sample tabulations. Such differences are the result of sampling variability, nonsampling error, and more extensive edit procedures for the Spanish/ Hispanic origin item on the sample questionnaires. (For more information on sampling variability and nonsampling error, see Appendix C, Accuracy of the Data.)

The 1990 data on Hispanic origin are generally comparable with those for the 1980 census. However, there are some differences in the format of the Hispanic origin question between the two censuses. For 1990, the word “descent” was deleted from the 1980 wording. In addition, the term “Mexican-Amer.” used in 1980 was shortened further to “Mexican-Am.” to reduce misreporting (of “American”) in this category detected in the 1980 census. Finally, the 1990 question allowed those who reported as “other Spanish/ Hispanic” to write in their specific Hispanic origin group.

Misreporting in the “Mexican-Amer.” category of the 1980 census item on Spanish/ Hispanic origin may affect the comparability of 1980 and 1990 census data for persons of Hispanic origin for certain areas of the country. An evaluation of the 1980 census item on Spanish/ Hispanic origin indicated that there was misreporting in the Mexican origin category by White and Black persons in certain areas. The study results showed evidence that the misreporting occurred in the South (excluding Texas), the Northeast (excluding the New York City area), and a few States in the Midwest Region. Also, results based on available data suggest that the impact of possible misreporting of Mexican origin in the 1980 census was severe in those portions of the above-mentioned regions where the Hispanic origin population was generally sparse. However, national 1980 census data on the Mexican origin population or total Hispanic origin population at the national level was not seriously affected by the reporting problem. (For a more detailed discussion of the evaluation of the 1980 census Spanish/ Hispanic origin item, see the 1980 census Supplementary Reports.)

The 1990 and 1980 census data on the Hispanic population are not directly comparable with 1970 Spanish origin data because of a number of factors: (1) overall improvements in the 1980 and 1990 censuses, (2) better coverage of the population, (3) improved question designs, and (4) an effective public relations campaign by the Census Bureau with the assistance of national and community ethnic groups.

Specific changes in question design between the 1980 and 1970 censuses included the placement of the category “No, not Spanish/ Hispanic” as the first category in that question. (The corresponding category appeared last in the 1970 question.) Also, the 1970 category “Central or South American” was deleted because in 1970 some respondents misinterpreted the category; furthermore, the designations “Mexican-American” and “Chicano” were added to the Spanish/ Hispanic origin question in 1980. In the 1970 census, the question on Spanish origin was asked of only a 5-percent sample of the population.

HOUSEHOLD TYPE AND RELATIONSHIP

Household

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

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

Persons Per Household—A measure obtained by dividing the number of persons in households by the number of households (or householders). In cases where persons in households are cross-classified by race or Hispanic origin, persons in the household are classified by the race or Hispanic origin of the householder rather than the race or Hispanic origin of each individual.

Relationship to Householder

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

Households are classified by type according to the sex of the householder and the presence of relatives. Two types of householders are distinguished: a family householder and a nonfamily householder. A family householder

is a householder living with one or more persons related to him or her by birth, marriage, or adoption. The householder and all persons in the household related to him or her are family members. A nonfamily householder is a householder living alone or with nonrelatives only.

Spouse—Includes a person married to and living with a householder. This category includes persons in formal marriages, as well as persons in common-law marriages.

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

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

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

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

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

In a subfamily, an “own child” is a never-married child under 18 years of age who is a son, daughter, stepchild, or an adopted child of a mother in a mother-child subfamily, a father in a father-child subfamily, or either spouse in a married-couple subfamily.

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

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

Grandchild—The grandson or granddaughter of the householder.

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

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

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

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

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

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

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

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

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

Unrelated Individual

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

Family Type

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

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

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

Other Family:

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

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

Persons Per Family—A measure obtained by dividing the number of persons in families by the total number of families (or family householders). In cases where the measure, "persons in family" or "persons per family" are cross-tabulated by race or Hispanic origin, the race or Hispanic origin refers to the householder rather than the race or Hispanic origin of each individual.

Subfamily

A subfamily is a married couple (husband and wife enumerated as members of the same household) with or without never-married children under 18 years old, or one parent with one or more never-married children under 18 years old, living in a household and related to, but not including, either the householder or the householder's spouse. The number of subfamilies is not included in the count of families, since subfamily members are counted as part of the householder's family.

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

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

Unmarried-Partner Household

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

Unmarried-Couple Household

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

Foster Children

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

Stepfamily

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

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

INCOME IN 1989

The data on income in 1989 were derived from answers to questionnaire items 32 and 33. Information on money income received in the calendar year 1989 was requested from persons 15 years old and over. "Total income" is the algebraic sum of the amounts reported separately for wage or salary income; net nonfarm self-employment income; net farm self-employment income; interest, dividend, or net rental or royalty income; Social Security or railroad retirement income; public assistance or welfare income; retirement or disability income; and all other income. "Earnings" is defined as the algebraic sum of

wage or salary income and net income from farm and nonfarm self-employment. "Earnings" represent the amount of income received regularly before deductions for personal income taxes, Social Security, bond purchases, union dues, medicare deductions, etc.

Receipts from the following sources are not included as income: money received from the sale of property (unless the recipient was engaged in the business of selling such property); the value of income "in kind" from food stamps, public housing subsidies, medical care, employer contributions for persons, etc.; withdrawal of bank deposits; money borrowed; tax refunds; exchange of money between relatives living in the same household; gifts and lump-sum inheritances, insurance payments, and other types of lump-sum receipts.

Income Type in 1989

The eight types of income reported in the census are defined as follows:

1. *Wage or Salary Income*—Includes total money earnings received for work performed as an employee during the calendar year 1989. It includes wages, salary, Armed Forces pay, commissions, tips, piece-rate payments, and cash bonuses earned before deductions were made for taxes, bonds, pensions, union dues, etc.
2. *Nonfarm Self-Employment Income*—Includes net money income (gross receipts minus expenses) from one's own business, professional enterprise, or partnership. Gross receipts include the value of all goods sold and services rendered. Expenses includes costs of goods purchased, rent, heat, light, power, depreciation charges, wages and salaries paid, business taxes (not personal income taxes), etc.
3. *Farm Self-Employment Income*—Includes net money income (gross receipts minus operating expenses) from the operation of a farm by a person on his or her own account, as an owner, renter, or sharecropper. Gross receipts include the value of all products sold, government farm programs, money received from the rental of farm equipment to others, and incidental receipts from the sale of wood, sand, gravel, etc. Operating expenses include cost of feed, fertilizer, seed, and other farming supplies, cash wages paid to farmhands, depreciation charges, cash rent, interest on farm mortgages, farm building repairs, farm taxes (not State and Federal personal income taxes), etc. The value of fuel, food, or other farm products used for family living is not included as part of net income.
4. *Interest, Dividend, or Net Rental Income*—Includes interest on savings or bonds, dividends from stockholdings or membership in associations, net income from rental of property to others and receipts from boarders or lodgers, net royalties, and periodic payments from an estate or trust fund.

5. *Social Security Income*—Includes Social Security pensions and survivors benefits and permanent disability insurance payments made by the Social Security Administration prior to deductions for medical insurance, and railroad retirement insurance checks from the U.S. Government. Medicare reimbursements are not included.

6. *Public Assistance Income*—Includes: (1) supplementary security income payments made by Federal or State welfare agencies to low income persons who are aged (65 years old or over), blind, or disabled; (2) aid to families with dependent children, and (3) general assistance. Separate payments received for hospital or other medical care (vendor payments) are excluded from this item.

7. *Retirement or Disability Income*—Includes: (1) retirement pensions and survivor benefits from a former employer, labor union, or Federal, State, county, or other governmental agency; (2) disability income from sources such as worker's compensation; companies or unions; Federal, State, or local government; and the U.S. military; (3) periodic receipts from annuities and insurance; and (4) regular income from IRA and KEOGH plans.

8. *All Other Income*—Includes unemployment compensation, Veterans Administration (VA) payments, alimony and child support, contributions received periodically from persons not living in the household, military family allotments, net gambling winnings, and other kinds of periodic income other than earnings.

Income of Households—Includes the income of the householder and all other persons 15 years old and over in the household, whether related to the householder or not. Because many households consist of only one person, average household income is usually less than average family income.

Income of Families and Persons—In compiling statistics on family income, the incomes of all members 15 years old and over in each family are summed and treated as a single amount. However, for persons 15 years old and over, the total amounts of their own incomes are used. Although the income statistics covered the calendar year 1989, the characteristics of persons and the composition of families refer to the time of enumeration (April 1990). Thus, the income of the family does not include amounts received by persons who were members of the family during all or part of the calendar year 1989 if these persons no longer resided with the family at the time of enumeration. Yet, family income amounts reported by related persons who did not reside with the family during 1989 but who were members of the family at the time of enumeration are included. However, the composition of most families was the same during 1989 as in April 1990.

Median Income—The median divides the income distribution into two equal parts, one having incomes above the median and the other having incomes below the median.

For households and families, the median income is based on the distribution of the total number of units including those with no income. The median for persons is based on persons with income. The median income values for all households, families, and persons are computed on the basis of more detailed income intervals than shown in most tabulations. Median household or family income figures of \$50,000 or less are calculated using linear interpolation. For persons, corresponding median values of \$40,000 or less are also computed using linear interpolation. All other median income amounts are derived through Pareto interpolation. (For more information on medians and interpolation, see the discussion under "Derived Measures.")

Mean Income—This is the amount obtained by dividing the total income of a particular statistical universe by the number of units in that universe. Thus, mean household income is obtained by dividing total household income by the total number of households. For the various types of income the means are based on households having those types of income. "Per capita income" is the mean income computed for every man, woman, and child in a particular group. It is derived by dividing the total income of a particular group by the total population in that group.

Care should be exercised in using and interpreting mean income values for small subgroups of the population. Because the mean is influenced strongly by extreme values in the distribution, it is especially susceptible to the effects of sampling variability, misreporting, and processing errors. The median, which is not affected by extreme values, is, therefore, a better measure than the mean when the population base is small. The mean, nevertheless, is shown in some data products for most small subgroups because, when weighted according to the number of cases, the means can be added to obtained summary measures for areas and groups other than those shown in census tabulations.

Limitation of the Data—Since questionnaire entries for income frequently are based on memory and not on records, many persons tended to forget minor or irregular sources of income and, therefore, underreport their income. Underreporting tends to be more pronounced for income sources that are not derived from earnings, such as Social Security, public assistance, or from interest, dividends, and net rental income.

There are errors of reporting due to the misunderstanding of the income questions such as reporting gross rather than net dollar amounts for the two questions on net self-employment income, which resulted in an overstatement of these items. Another common error is the reporting of identical dollar amounts in two of the eight type of income items where a respondent with only one source of income assumed that the second amount should be entered to represent total income. Such instances of

overreporting had an impact on the level of mean nonfarm or farm self-employment income and mean total income published for the various geographical subdivisions of the State.

Extensive computer editing procedures were instituted in the data processing operation to reduce some of these reporting errors and to improve the accuracy of the income data. These procedures corrected various reporting deficiencies and improved the consistency of reported income items associated with work experience and information on occupation and class of worker. For example, if persons reported they were self-employed on their own farm, not incorporated, but had reported wage and salary earnings only, the latter amount was shifted to net farm self-employment income. Also, if any respondent reported total income only, the amount was generally assigned to one of the type of income items according to responses to the work experience and class-of-worker questions. Another type of problem involved nonreporting of income data. Where income information was not reported, procedures were devised to impute appropriate values with either no income or positive or negative dollar amounts for the missing entries. (For more information on imputation, see Appendix C, Accuracy of the Data.)

In income tabulations for households and families, the lowest income group (e.g., less than \$5,000) includes units that were classified as having no 1989 income. Many of these were living on income "in kind," savings, or gifts, were newly created families, or families in which the sole breadwinner had recently died or left the household. However, many of the households and families who reported no income probably had some money income which was not recorded in the census.

The income data presented in the tabulations covers money income only. The fact that many farm families receive an important part of their income in the form of "free" housing and goods produced and consumed on the farm rather than in money should be taken into consideration in comparing the income of farm and nonfarm residents. Nonmoney income such as business expense accounts, use of business transportation and facilities, or partial compensation by business for medical and educational expenses was also received by some nonfarm residents. Many low income families also receive income "in kind" from public welfare programs. In comparing income data for 1989 with earlier years, it should be noted that an increase or decrease in money income does not necessarily represent a comparable change in real income, unless adjustments for changes in prices are made.

Comparability—The income data collected in the 1980 and 1970 censuses are similar to the 1990 census data, but there are variations in the detail of the questions. In 1980, income information for 1979 was collected from persons in approximately 19 percent of all housing units and group quarters. Each person was required to report:

- Wage or salary income

- Net nonfarm self-employment income
- Net farm self-employment income
- Interest, dividend, or net rental or royalty income
- Social Security income
- Public assistance income
- Income from all other sources

Between the 1980 and 1990 censuses, there were minor differences in the processing of the data. In both censuses, all persons with missing values in one or more of the detailed type of income items *and* total income were designated as allocated. Each missing entry was imputed either as a "no" or as a dollar amount. If total income was reported *and* one or more of the type of income fields was not answered, then the entry in total income generally was assigned to one of the income types according to the socioeconomic characteristics of the income recipient. This person was designated as unallocated.

In 1980 and 1990, all nonrespondents with income not reported (whether heads of households or other persons) were assigned the reported income of persons with similar characteristics. (For more information on imputation, see Appendix C, "Accuracy of the Data.")

There was a difference in the method of computer derivation of aggregate income from individual amounts between the two census processing operations. In the 1980 census, income amounts less than \$100,000 were coded in tens of dollars, and amounts of \$100,000 or more were coded in thousands of dollars; \$5 was added to each amount coded in tens of dollars and \$500 to each amount coded in thousands of dollars. Entries of \$999,000 or more were treated as \$999,500 and losses of \$9,999 or more were treated as minus \$9,999. In the 1990 census, income amounts less than \$999,999 were keyed in dollars. Amounts of \$999,999 or more were treated as \$999,999 and losses of \$9,999 or more were treated as minus \$9,999 in all of the computer derivations of aggregate income.

In 1970, information on income in 1969 was obtained from all members in every fifth housing unit and small group quarters (less than 15 persons) and every fifth person in all other group quarters. Each person was required to report:

- Wage or salary income
- Net nonfarm self-employment income
- Net farm self-employment income
- Social Security or Railroad Retirement
- Public assistance or welfare payments
- Income from all other sources

If a person reported a dollar amount in wage or salary, net nonfarm self-employment income, or net farm self-employment income, the person was considered as unallocated only if no further dollar amounts were imputed for any additional missing entries.

In 1960, data on income were obtained from all members in every fourth housing unit and from every fourth person 14 years old and over living in group quarters. Each person was required to report wage or salary income, net self-employment income, and income other than earnings received in 1959. An assumption was made in the editing process that no other type of income was received by a person who reported the receipt of either wage and salary income or self-employment but who had failed to report the receipt of other money income.

For several reasons, the income data shown in census tabulations are not directly comparable with those that may be obtained from statistical summaries of income tax returns. Income, as defined for Federal tax purposes, differs somewhat from the Census Bureau concept. Moreover, the coverage of income tax statistics is different because of the exemptions of persons having small amounts of income and the inclusion of net capital gains in tax returns. Furthermore, members of some families file separate returns and others file joint returns; consequently, the income reporting unit is not consistently either a family or a person.

The earnings data shown in census tabulations are not directly comparable with earnings records of the Social Security Administration. The earnings record data for 1989 excluded the earnings of most civilian government employees, some employees of nonprofit organizations, workers covered by the Railroad Retirement Act, and persons not covered by the program because of insufficient earnings. Furthermore, earnings received from any one employer in excess of \$48,000 in 1989 are not covered by earnings records. Finally, because census data are obtained from household questionnaires, they may differ from Social Security Administration earnings record data, which are based upon employers' reports and the Federal income tax returns of self-employed persons.

The Bureau of Economic Analysis (BEA) of the Department of Commerce publishes annual data on aggregate and per-capita personal income received by the population for States, metropolitan areas, and selected counties. Aggregate income estimates based on the income statistics shown in census products usually would be less than those shown in the BEA income series for several reasons. The Census Bureau data are obtained directly from households, whereas the BEA income series is estimated largely on the basis of data from administrative records of business and governmental sources. Moreover, the definitions of income are different. The BEA income series includes some items not included in the income data shown in census publications, such as income "in kind," income received by nonprofit institutions, the value of services of

banks and other financial intermediaries rendered to persons without the assessment of specific charges, Medicare payments, and the income of persons who died or emigrated prior to April 1, 1990. On the other hand, the census income data include contributions for support received from persons not residing in the same household and employer contributions for social insurance.

INDUSTRY, OCCUPATION, AND CLASS OF WORKER

The data on industry, occupation, and class of worker were derived from answers to questionnaire items 28, 29, and 30 respectively. These questions were asked of a sample of persons. Information on industry relates to the kind of business conducted by a person's employing organization; occupation describes the kind of work the person does on the job.

For employed persons, the data refer to the person's job during the reference week. For those who worked at two or more jobs, the data refer to the job at which the person worked the greatest number of hours. For unemployed persons, the data refer to their last job. The industry and occupation statistics are derived from the detailed classification systems developed for the 1990 census as described below. The *Classified Index of Industries and Occupations* provided additional information on the industry and occupation classification systems.

Respondents provided the data for the tabulations by writing on the questionnaires descriptions of their industry and occupation. These descriptions were keyed and passed through automated coding software which assigned a portion of the written entries to categories in the classification system. The automated system assigned codes to 59 percent of the industry entries and 38 percent of the occupation entries.

Those cases not coded by the computer were referred to clerical staff in the Census Bureau's Kansas City processing office for coding. The clerical staff converted the written questionnaire descriptions to codes by comparing these descriptions to entries in the *Alphabetical Index of Industries and Occupations*. For the industry code, these coders also referred to an Employer Name List (formerly called Company Name List). This list, prepared from the Standard Statistical Establishment List developed by the Census Bureau for the economic censuses and surveys, contained the names of business establishments and their Standard Industrial Classification (SIC) codes converted to population census equivalents. This list facilitated coding and maintained industrial classification comparability.

Industry

The industry classification system developed for the 1990 census consists of 235 categories for employed persons, classified into 13 major industry groups. Since

1940, the industrial classification has been based on the Standard Industrial Classification Manual (SIC). The 1990 census classification was developed from the 1987 SIC published by the Office of Management and Budget Executive Office of the President.

The SIC was designed primarily to classify establishments by the type of industrial activity in which they were engaged. However, census data, which were collected from households, differ in detail and nature from those obtained from establishment surveys. Therefore, the census classification systems, while defined in SIC terms, cannot reflect the full detail in all categories. There are several levels of industrial classification found in census products. For example, the 1990 CP-2, *Social and Economic Characteristics* report includes 41 unique industrial categories, while the 1990 Summary Tape File 4 (STF 4) presents 72 categories.

Occupation

The occupational classification system developed for the 1990 census consists of 500 specific occupational categories for employed persons arranged into 6 summary and 13 major occupational groups. This classification was developed to be consistent with the Standard Occupational Classification (SOC) Manual: 1980, published by the Office of Federal Statistical Policy and Standards, U.S. Department of Commerce. Tabulations with occupation as the primary characteristic present several levels of occupational detail. The most detailed tabulations are shown in a special 1990 subject report and tape files on occupation. These products contain all 500 occupational categories plus industry or class of worker subgroupings of occupational categories.

Some occupation groups are related closely to certain industries. Operators of transportation equipment, farm operators and workers, and private household workers account for major portions of their respective industries of transportation, agriculture, and private households. However, the industry categories include persons in other occupations. For example, persons employed in agriculture include truck drivers and bookkeepers; persons employed in the transportation industry include mechanics, freight handlers, and payroll clerks; and persons employed in the private household industry include occupations such as chauffeur, gardener, and secretary.

Class of Worker

The data on class of worker were derived from answers to questionnaire item 30. The information on class of worker refers to the same job as a respondent's industry and occupation and categorizes persons according to the type of ownership of the employing organization. The class of worker categories are defined as follows:

Private Wage and Salary Workers—Includes persons who worked for wages, salary, commission, tips, pay-in-kind, or piece rates for a private for profit employer or a

private not-for-profit, tax-exempt or charitable organization. Self-employed persons whose business was incorporated are included with private wage and salary workers because they are paid employees of their own companies. Some tabulations present data separately for these sub-categories: "For profit," "Not for profit," and "Own business incorporated."

Employees of foreign governments, the United Nations, or other formal international organizations were classified as "Private-not-for-profit."

Government Workers—Includes persons who were employees of any local, State, or Federal governmental unit, regardless of the activity of the particular agency. For some tabulations, the data were presented separately for the three levels of government.

Self-Employed Workers—Includes persons who worked for profit or fees in their own unincorporated business, profession, or trade, or who operated a farm.

Unpaid Family Workers—Includes persons who worked 15 hours or more without pay in a business or on a farm operated by a relative.

Salaried/ Self-Employed—In tabulations that categorize persons as either salaried or self-employed, the salaried category includes private and government wage and salary workers; self-employed includes self-employed persons and unpaid family workers.

The industry category, "Public administration," is limited to regular government functions such as legislative, judicial, administrative, and regulatory activities of governments. Other government organizations such as schools, hospitals, liquor stores, and bus lines are classified by industry according to the activity in which they are engaged. On the other hand, the class of worker government categories include all government workers.

Occasionally respondents supplied industry, occupation, or class of worker descriptions which were not sufficiently specific for precise classification or did not report on these items at all. Some of these cases were corrected through the field editing process and during the coding and tabulation operations. In the coding operation, certain types of incomplete entries were corrected using the *Alphabetical Index of Industries and Occupations*. For example, it was possible in certain situations to assign an industry code based on the occupation reported.

Following the coding operations, there was a computer edit and an allocation process. The edit first determined whether a respondent was in the universe which required an industry and occupation code. The codes for the three items (industry, occupation, and class of worker) were checked to ensure they were valid and were edited for their relation to each other. Invalid and inconsistent codes were either blanked or changed to a consistent code.

If one or more of the three codes were blank after the edit, a code was assigned from a "similar" person based on other items such as age, sex, education, farm or nonfarm residence, and weeks worked. If all the labor force and income data also were blank, all these economic items were assigned from one other person who provided all the necessary data.

Comparability—Comparability of industry and occupation data was affected by a number of factors, primarily the systems used to classify the questionnaire responses. For both the industry and occupation classification systems, the basic structures were generally the same from 1940 to 1970, but changes in the individual categories limited comparability of the data from one census to another. These changes were needed to recognize the "birth" of new industries and occupations, the "death" of others, and the growth and decline in existing industries and occupations, as well as, the desire of analysts and other users for more detail in the presentation of the data. Probably the greatest cause of incomparability is the movement of a segment of a category to a different category in the next census. Changes in the nature of jobs and respondent terminology, and refinement of category composition made these movements necessary.

In the 1990 census, the industry classification had minor revisions to reflect recent changes to the SIC. The 1990 occupational classification system is essentially the same as that for the 1980 census. However, the conversion of the census classification to the SOC in 1980 meant that the 1990 classification system was less comparable to the classifications used prior to the 1980 census.

Other factors that affected data comparability included the universe to which the data referred (in 1970, the age cutoff for labor force was changed from 14 years to 16 years); how the industry and occupation questions were worded on the questionnaire (for example, important changes were made in 1970); improvements in the coding procedures (the Employer Name List technique was introduced in 1960); and how the "not reported" cases are handled. Prior to 1970, they were placed in the residual categories, "Industry not reported" and "Occupation not reported." In 1970, an allocation process was introduced that assigned these cases to major groups. In 1990, as in 1980, the "Not reported" cases were assigned to individual categories. Therefore, the 1980 and 1990 data for individual categories included some numbers of persons who were tabulated in a "Not reported" category in previous censuses.

The following publications contain information on the various factors affecting comparability and are particularly useful for understanding differences in the occupation and industry information from earlier censuses: U.S. Bureau of the Census, *Changes Between the 1950 and 1960 Occupation and Industry Classifications With Detailed Adjustments of 1950 Data to the 1960 Classifications*, Technical Paper No. 18, 1968; U.S. Bureau of the Census, *1970 Occupation and Industry Classification Systems in Terms of their 1960 Occupation and Industry Elements*, Technical

Paper No. 26, 1972; and U.S. Bureau of the Census, *The Relationship Between the 1970 and 1980 Industry and Occupation Classification Systems*, Technical Paper No. 59, 1988. For citations for earlier census years, see the 1980 Census of Population report, PC80-1-D, *Detailed Population Characteristics*.

The 1990 census introduced an additional class of worker category for "private not-for-profit" employers. This category is a subset of the 1980 category "employee of private employer" so there is no comparable data before 1990. Also in 1990, employees of foreign governments, the United Nations, etc., are classified as "private not-for-profit," rather than Federal Government as in 1970 and 1980. While in theory, there was a change in comparability, in practice, the small number of U.S. residents working for foreign governments made this change negligible.

Comparability between the statistics on industry and occupation from the 1990 census and statistics from other sources is affected by many of the factors described in the section on "Employment Status." These factors are primarily geographic differences between residence and place of work, different dates of reference, and differences in counts because of dual job holding. Industry data from population censuses cover all industries and all kinds of workers, whereas, data from establishments often excluded private household workers, government workers, and the self-employed. Also, the replies from household respondents may have differed in detail and nature from those obtained from establishments.

Occupation data from the census and data from government licensing agencies, professional associations, trade unions, etc., may not be as comparable as expected. Organizational listings often include persons not in the labor force or persons devoting all or most of their time to another occupation; or the same person may be included in two or more different listings. In addition, relatively few organizations, except for those requiring licensing, attained complete coverage of membership in a particular occupational field.

JOURNEY TO WORK

Place of Work

The data on place of work were derived from answers to questionnaire item 22, which was asked of persons who indicated in question 21 that they worked at some time during the reference week. (For more information, see discussion under "Reference Week.")

Data were tabulated for workers 16 years and over; that is, members of the Armed Forces and civilians who were at work during the reference week. Data on place of work refer to the geographic location at which workers carried out their occupational activities during the reference week. The exact address (number and street) of the place of work was asked, as well as the place (city, town, or post office); whether or not the place of work was inside or

outside the limits of that city or town; and the county, State, and ZIP Code. If the person's employer operated in more than one location, the exact address of the location or branch where the respondent worked was requested. When the number and street name were unknown, a description of the location, such as the building name or nearest street or intersection, was to be entered.

Persons who worked at more than one location during the reference week were asked to report the one at which they worked the greatest number of hours. Persons who regularly worked in several locations each day during the reference week were requested to give the address at which they began work each day. For cases in which daily work did not begin at a central place each day, the person was asked to provide as much information as possible to describe the area in which he or she worked most during the reference week.

In some tabulations, place-of-work locations may be defined as "in area of residence" and "outside area of residence." The area of residence may vary from table to table or even within a table, and refers to the particular area or areas shown. For example, in a table that provides data for counties, "in area of residence" refers to persons who worked in the same county in which they lived, while "outside area of residence" refers to persons whose workplace was located in a county different from the one in which they lived. Similarly, in a table that provides data for several types of areas, such as the State and its individual metropolitan areas (MA's), counties, and places, the place-of-work data will be variable and is determined by the geographic level (State, MA, county, or place) shown in each section of the tabulation.

In tabulations that present data for States, workplaces for the residents of the State may include, in addition to the State itself, each contiguous State. The category, "in noncontiguous State or abroad," includes persons who worked in a State that did not border their State of residence as well as persons who worked outside the United States.

In tabulations that present data for an MSA/PMSA, place-of-work locations are specified to show the main destinations of workers living in the MSA/PMSA. (For more information on metropolitan areas (MA's), see Appendix A, Area Classifications.) All place-of-work locations are identified with respect to the boundaries of the MSA/PMSA as "inside MSA/PMSA" or "outside MSA/PMSA." Locations within the MSA/PMSA are further divided into each central city, and each county or county balance. Selected large incorporated places also may be specified as places of work.

Within New England MSA/PMSA's, the places of work presented generally are cities and towns. Locations outside the MSA/PMSA are specified if they are important commuting destinations for residents of the MSA/PMSA, and may include adjoining MSA/PMSA's and their central cities, their component counties, large incorporated places, or counties, cities, or other geographic areas outside any MA. In tabulations for MSA/PMSA's in New England;

Honolulu, Hawaii; and certain other MA's, some place-of-work locations are identified as "areas" (e.g., Area 1, Area 5, Area 12, etc.). Such areas consist of groups of towns, cities, census designated places (Honolulu MSA only), or counties that have been identified as unique place-of-work destinations. When an adjoining MSA/ PMSA or MSA/ PMSA remainder is specified as a place-of-work location, its components are not defined. However, the components are presented in the 1990 CP-1, *General Population Characteristics for Metropolitan Areas* and the 1990 CH-1, *General Housing Characteristics for Metropolitan Areas* reports. In tabulations that present data for census tracts outside MA's, place-of-work locations are defined as "in county of residence" and "outside county of residence."

In areas where the workplace address was coded to the block level, persons were tabulated as working inside or outside a specific place based on the location of that address, regardless of the response to question 22c concerning city/ town limits. In areas where it was impossible to code the workplace address to the block level, persons were tabulated as working in a place if a place name was reported in question 22b and the response to question 22c was either "Yes" or the item was left blank. In selected areas, census designated places (CDP's) may appear in the tabulations as places of work. The accuracy of place-of-work data for CDP's may be affected by the extent to which their census names were familiar to respondents, and by coding problems caused by similarities between the CDP name and the names of other geographic jurisdictions in the same vicinity.

Place-of-work data are given for selected minor civil divisions (generally, cities, towns, and townships) in the nine Northeastern States, based on the responses to the place-of-work question. Many towns and townships are regarded locally as equivalent to a place and therefore, were reported as the place of work. When a respondent reported a locality or incorporated place that formed a part of a township or town, the coding and tabulating procedure was designed to include the response in the total for the township or town. The accuracy of the place-of-work data for minor civil divisions is greatest for the New England States. However, the data for some New England towns, for towns in New York, and for townships in New Jersey and Pennsylvania may be affected by coding problems that resulted from the unfamiliarity of the respondent with the minor civil division in which the workplace was located or when a township and a city or borough of the same or similar name are located close together.

Place-of-work data may show a few workers who made unlikely daily work trips (e.g., workers who lived in New York and worked in California). This result is attributable to persons who worked during the reference week at a location that was different from their usual place of work, such as persons away from home on business.

Comparability—The wording of the question on place of work was substantially the same in the 1990 census as it was in 1980. However, data on place of work from the

1990 census are based on the full census sample, while data from the 1980 census were based on only about one-half of the full sample.

For the 1980 census, nonresponse or incomplete responses to the place-of-work question were not allocated, resulting in the use of "not reported" categories in the 1980 publications. However, for the 1990 census, when place of work was not reported or the response was incomplete, a work location was allocated to the person based on their means of transportation to work, travel time to work, industry, and location of residence and workplace of others. The 1990 publications, therefore, do not contain a "not reported" category for the place-of-work data.

Comparisons between 1980 and 1990 census data on the gross number of workers in particular commuting flows, or the total number of persons working in an area, should be made with extreme caution. Any apparent increase in the magnitude of the gross numbers may be due solely to the fact that for 1990 the "not reported" cases have been distributed among specific place-of-work destinations, instead of tallied in a separate category as in 1980.

Limitation of the Data—The data on place of work relate to a reference week; that is, the calendar week preceding the date on which the respondents completed their questionnaires or were interviewed by enumerators. This week is not the same for all respondents because the enumeration was not completed in 1 week. However, for the majority of persons, the reference week for the 1990 census is the last week in March 1990. The lack of a uniform reference week means that the place-of-work data reported in the census will not exactly match the distribution of workplace locations observed or measured during an actual workweek.

The place-of-work data are estimates of persons 16 years old and over who were both employed and at work during the reference week (including persons in the Armed Forces). Persons who did not work during the reference week but had jobs or businesses from which they were temporarily absent due to illness, bad weather, industrial dispute, vacation, or other personal reasons are not included in the place-of-work data. Therefore, the data on place of work understate the total number of jobs or total employment in a geographic area during the reference week. It also should be noted that persons who had irregular, casual, or unstructured jobs during the reference week may have erroneously reported themselves as not working.

The address where the individual worked most often during the reference week was recorded on the census questionnaire. If a worker held two jobs, only data about the primary job (the one worked the greatest number of hours during the preceding week) was requested. Persons who regularly worked in several locations during the reference week were requested to give the address at which they began work each day. For cases in which daily work was not begun at a central place each day, the person was

asked to provide as much information as possible to describe the area in which he or she worked most during the reference week.

Means of Transportation to Work

The data on means of transportation to work were derived from answers to questionnaire item 23a, which was asked of persons who indicated in question 21 that they worked at some time during the reference week. (For more information, see discussion under "Reference Week.") Means of transportation to work refers to the principal mode of travel or type of conveyance that the person usually used to get from home to work during the reference week.

Persons who used different means of transportation on different days of the week were asked to specify the one they used most often, that is, the greatest number of days. Persons who used more than one means of transportation to get to work each day were asked to report the one used for the longest distance during the work trip. The category, "Car, truck, or van," includes workers using a car (including company cars but excluding taxicabs), a truck of one-ton capacity or less, or a van. The category, "Public transportation," includes workers who used a bus or trolley bus, streetcar or trolley car, subway or elevated, railroad, ferryboat, or taxicab even if each mode is not shown separately in the tabulation. The category, "Other means," includes workers who used a mode of travel which is not identified separately within the data distribution. The category, "Other means," may vary from table to table, depending on the amount of detail shown in a particular distribution.

The means of transportation data for some areas may show workers using modes of public transportation that are not available in those areas (e.g., subway or elevated riders in an MA where there actually is no subway or elevated service). This result is largely due to persons who worked during the reference week at a location that was different from their usual place of work (such as persons away from home on business in an area where subway service was available) and persons who used more than one means of transportation each day but whose principal means was unavailable where they lived (for example, residents of nonmetropolitan areas who drove to the fringe of an MA and took the commuter railroad most of the distance to work).

Private Vehicle Occupancy

The data on private vehicle occupancy were derived from answers to questionnaire item 23b. This question was asked of persons who indicated in question 21 that they worked at some time during the reference week and who reported in question 23a that their means of transportation to work was "Car, truck, or van." (For more information, see discussion under "Reference Week.")

Private vehicle occupancy refers to the number of persons who usually rode to work in the vehicle during the reference week. The category, "Drove alone," includes persons who usually drove alone to work as well as persons who were driven to work by someone who then drove back home or to a nonwork destination. The category, "Carpooled," includes workers who reported that two or more persons usually rode to work in the vehicle during the reference week.

Persons Per Car, Truck, or Van—This is obtained by dividing the number of persons who reported using a car, truck, or van to get to work by the number of such vehicles that they used. The number of vehicles used is derived by counting each person who drove alone as one vehicle, each person who reported being in a two-person carpool as one-half vehicle, each person who reported being in a three-person carpool as one-third vehicle, and so on, and then summing all the vehicles.

Time Leaving Home to Go to Work

The data on time leaving home to go to work were derived from answers to questionnaire item 24a. This question was asked of persons who indicated in question 21 that they worked at some time during the reference week and who reported in question 23a that they worked outside their home. The departure time refers to the time of day that the person usually left home to go to work during the reference week. (For more information, see discussion under "Reference Week.")

Travel Time to Work

The data on travel time to work were derived from answers to questionnaire item 24b. This question was asked of persons who indicated in question 21 that they worked at some time during the reference week and who reported in question 23a that they worked outside their home. Travel time to work refers to the total number of minutes that it usually took the person to get from home to work during the reference week. The elapsed time includes time spent waiting for public transportation, picking up passengers in carpools, and time spent in other activities related to getting to work. (For more information, see discussion under "Reference Week.")

LANGUAGE SPOKEN AT HOME AND ABILITY TO SPEAK ENGLISH

Language Spoken at Home

Data on language spoken at home were derived from the answers to questionnaire items 15a and 15b, which were asked of a sample of persons born before April 1, 1985. Instructions mailed with the 1990 census questionnaire stated that a respondent should mark "Yes" in

question 15a if the person sometimes or always spoke a language other than English at home and should not mark "Yes" if a language was spoken only at school or if speaking was limited to a few expressions or slang. For question 15b, respondents were instructed to print the name of the non-English language spoken at home. If the person spoke more than one language other than English, the person was to report the language spoken more often or the language learned first.

The cover of the census questionnaire included information in Spanish which provided a telephone number for respondents to call to request a census questionnaire and instructions in Spanish. Instruction guides were also available in 32 other languages to assist enumerators who encountered households or respondents who spoke no English.

Questions 15a and 15b referred to languages spoken at home in an effort to measure the current use of languages other than English. Persons who knew languages other than English but did not use them at home or who only used them elsewhere were excluded. Persons who reported speaking a language other than English at home may also speak English; however, the questions did not permit determination of the main or dominant language of persons who spoke both English and another language. (For more information, see discussion below on "Ability to Speak English.")

For persons who indicated that they spoke a language other than English at home in question 15a, but failed to specify the name of the language in question 15b, the language was assigned based on the language of other speakers in the household; on the language of a person of the same Spanish origin or detailed race group living in the same or a nearby area; or on a person of the same ancestry or place of birth. In all cases where a person was assigned a non-English language, it was assumed that the language was spoken at home. Persons for whom the name of a language other than English was entered in question 15b, and for whom question 15a was blank were assumed to speak that language at home.

The write-in responses listed in question 15b (specific language spoken) were transcribed onto computer files and coded into more than 380 detailed language categories using an automated coding system. The automated procedure compared write-in responses reported by respondents with entries in a computer dictionary, which initially contained approximately 2,000 language names. The dictionary was updated with a large number of new names, variations in spelling, and a small number of residual categories. Each write-in response was given a numeric code that was associated with one of the detailed categories in the dictionary. If the respondent listed more than one non-English language, only the first was coded.

The write-in responses represented the names people used for languages they speak. They may not match the names or categories used by linguists. The sets of categories used are sometimes geographic and sometimes linguistic. Figure 1 provides an illustration of the content of

the classification schemes used to present language data. For more information, write to the Chief, Population Division, U.S. Bureau of the Census, Washington, DC 20233.

Household Language—In households where one or more persons (age 5 years old or over) speak a language other than English, the household language assigned to all household members is the non-English language spoken by the first person with a non-English language in the following order: householder, spouse, parent, sibling, child, grandchild, other relative, stepchild, unmarried partner, housemate or roommate, roomer, boarder, or foster child, or other nonrelative. Thus, persons who speak only English may have a non-English household language assigned to them in tabulations of persons by household language.

Figure 1. **Four- and Twenty-Five-Group Classifications of 1990 Census Languages Spoken at Home with Illustrative Examples**

Four-Group Classification	Twenty-Five-Group Classification	Examples
Spanish Other Indo-European	Spanish	Spanish, Ladino
	French	French, Cajun, French Creole
	Italian	
	Portuguese	
	German	
	Yiddish	
	Other West Germanic	Afrikaans, Dutch, Pennsylvania Dutch
	Scandinavian	Danish, Norwegian, Swedish
	Polish	
	Russian	
Languages of Asia and the Pacific	South Slavic	Serbocroatian, Bulgarian, Macedonian, Slovene
	Other Slavic	Czech, Slovak, Ukrainian
	Greek	
	Indic	Hindi, Bengali, Gujarathi, Punjabi, Romany, Sinhalese
	Other Indo-European, not elsewhere classified	Armenian, Gaelic, Lithuanian, Persian
All other languages	Chinese	
	Japanese	
	Mon-Khmer	Cambodian
	Tagalog	
	Korean	
All other languages	Vietnamese	
	Other languages (part)	Chamorro, Dravidian Languages, Hawaiian, Ilocano, Thai, Turkish
	Arabic	
	Hungarian	
All other languages	Native North American languages	
	Other languages (part)	Amharic, Syriac, Finnish, Hebrew, Languages of Central and South America, Other Languages of Africa

Ability to Speak English

Persons 5 years old and over who reported that they spoke a language other than English in question 15a were also asked in question 15c to indicate their ability to speak English based on one of the following categories: "Very well," "Well," "Not well," or "Not at all."

The data on ability to speak English represent the person's own perception about his or her own ability or, because census questionnaires are usually completed by one household member, the responses may represent the perception of another household member. The instruction guides and questionnaires that were mailed to households did not include any information on how to interpret the response categories in question 15c.

Persons who reported that they spoke a language other than English at home but whose ability to speak English was not reported, were assigned the English-language ability of a randomly selected person of the same age, Spanish origin, nativity and year of entry, and language group.

Linguistic Isolation—A household in which no person age 14 years or over speaks only English and no person age 14 years or over who speaks a language other than English speaks English "Very well" is classified as "linguistically isolated." All the members of a linguistically isolated household are tabulated as linguistically isolated, including members under age 14 years who may speak only English.

Limitation of the Data—Persons who speak a language other than English at home may have first learned that language at school. However, these persons would be expected to indicate that they spoke English "Very well." Persons who speak a language other than English, but do not do so *at home*, should have been reported as not speaking a language other than English at home.

The extreme detail in which language names were coded may give a false impression of the linguistic precision of these data. The names used by speakers of a language to identify it may reflect ethnic, geographic, or political affiliations and do not necessarily respect linguistic distinctions. The categories shown in the tabulations were chosen on a number of criteria, such as information about the number of speakers of each language that might be expected in a sample of the United States population.

Comparability—Information on language has been collected in every census since 1890. The comparability of data among censuses is limited by changes in question wording, by the subpopulations to whom the question was addressed, and by the detail that was published.

The same question on language was asked in the 1980 and 1990 censuses. This question on the current language spoken at home replaced the questions asked in prior

censuses on mother tongue; that is, the language other than English spoken in the person's home when he or she was a child; one's first language; or the language spoken before immigrating to the United States. The censuses of 1910-1940, 1960 and 1970 included questions on mother tongue. A change in coding procedure from 1980 to 1990 should have improved accuracy of coding and may affect the number of persons reported in some of the 380 plus categories. It should not greatly affect the 4-group or 25-group lists. In 1980, coding clerks supplied numeric codes for the written entries on each questionnaire using a 2,000 name reference list. In 1990 written entries were transcribed to a computer file and matched to a computer dictionary which began with the 2,000 name list, but expanded as unmatched names were referred to headquarters specialists for resolution.

The question on ability to speak English was asked for the first time in 1980. In tabulations from 1980, the categories "Very well" and "Well" were combined. Data from other surveys suggested a major difference between the category "Very well" and the remaining categories. In tabulations showing ability to speak English, persons who reported that they spoke English "Very well" are presented separately from persons who reported their ability to speak English as less than "Very well."

MARITAL STATUS

The data on marital status were derived from answers to questionnaire item 6, which was asked of all persons. The marital status classification refers to the status at the time of enumeration. Data on marital status are tabulated only for persons 15 years old and over.

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

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

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

Now Married, Except Separated—Includes persons whose current marriage has not ended through widowhood, divorce, or separation (regardless of previous marital history). The category may also include couples who live together or persons in common-law marriages if they consider this category the most appropriate. In certain tabulations, currently married persons are further classified as "spouse present" or "spouse absent."

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

Widowed—Includes widows and widowers who have not remarried.

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

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

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

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

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

Separated—Defined above.

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

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

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

Comparability—The 1990 marital status definitions are the same as those used in 1980 with the exception of the term “never married” which replaces the term “single” in tabulations. A general marital status question has been asked in every census since 1880.

MOBILITY LIMITATION STATUS

The data on mobility limitation status were derived from answers to questionnaire item 19a, which was asked of a sample of persons 15 years old and over. Persons were

identified as having a mobility limitation if they had a health condition that had lasted for 6 or more months and which made it difficult to go outside the home alone. Examples of outside activities on the questionnaire included shopping and visiting the doctor's office.

The term “health condition” referred to both physical and mental conditions. A temporary health problem, such as a broken bone that was expected to heal normally, was not considered a health condition.

Comparability—This was the first time that a question on mobility limitation was included in the census.

PLACE OF BIRTH

The data on place of birth were derived from answers to questionnaire item 8, which was asked on a sample basis. The place-of-birth question asked respondents to report the U.S. State, commonwealth or territory, or the foreign country where they were born. Persons born outside the United States were asked to report their place of birth according to current international boundaries. Since numerous changes in boundaries of foreign countries have occurred in the last century, some persons may have reported their place of birth in terms of boundaries that existed at the time of their birth or emigration, or in accordance with their own national preference.

Persons not reporting place of birth were assigned the birthplace of another family member or were allocated the response of another person with similar characteristics. Persons allocated as foreign born were not assigned a specific country of birth but were classified as “Born abroad, country not specified.”

Nativity—Information on place of birth and citizenship were used to classify the population into two major categories: native and foreign born. When information on place of birth was not reported, nativity was assigned on the basis of answers to citizenship, if reported, and other characteristics.

Native—Includes persons born in the United States, Puerto Rico, or an outlying area of the United States. The small number of persons who were born in a foreign country but have at least one American parent also are included in this category.

The native population is classified in the following groups: persons born in the State in which they resided at the time of the census; persons born in a different State, by region; persons born in Puerto Rico or an outlying area of the U.S.; and persons born abroad with at least one American parent.

Foreign Born—Includes persons not classified as “Native.” Prior to the 1970 census, persons not reporting place of birth were generally classified as native.

The foreign-born population is shown by selected area, country, or region of birth: the places of birth shown in data products were selected based on the number of respondents who reported that area or country of birth.

Comparability—Data on the State of birth of the native population have been collected in each census beginning with that of 1850. Similar data were shown in tabulations for the 1980 census and other recent censuses. Nonresponse was allocated in a similar manner in 1980; however, prior to 1980, nonresponse to the place of birth question was not allocated. Prior to the 1970 census, persons not reporting place of birth were generally classified as native.

The questionnaire instruction to report mother's State of residence instead of the person's actual State of birth (if born in a hospital in a different State) was dropped in 1990. Evaluation studies of 1970 and 1980 census data demonstrated that this instruction was generally either ignored or misunderstood. Since the hospital and the mother's residence is in the same State for most births, this change may have a slight effect on State of birth data for States with large metropolitan areas that straddle State lines.

POVERTY STATUS IN 1989

The data on poverty status were derived from answers to the same questions as the income data, questionnaire items 32 and 33. (For more information, see the discussion under "Income in 1989.") Poverty statistics presented in census publications were based on a definition originated by the Social Security Administration in 1964 and subsequently modified by Federal interagency committees in 1969 and 1980 and prescribed by the Office of Management and Budget in Directive 14 as the standard to be used by Federal agencies for statistical purposes.

At the core of this definition was the 1961 economy food plan, the least costly of four nutritionally adequate food plans designed by the Department of Agriculture. It was determined from the Agriculture Department's 1955 survey of food consumption that families of three or more persons spend approximately one-third of their income on food; hence, the poverty level for these families was set at three times the cost of the economy food plan. For smaller families and persons living alone, the cost of the economy food plan was multiplied by factors that were slightly higher to compensate for the relatively larger fixed expenses for these smaller households.

The income cutoffs used by the Census Bureau to determine the poverty status of families and unrelated individuals included a set of 48 thresholds arranged in a two-dimensional matrix consisting of family size (from one person to nine or more persons) cross-classified by presence and number of family members under 18 years old (from no children present to eight or more children present). Unrelated individuals and two-person families were further differentiated by age of the householder (under 65 years old and 65 years old and over).

The total income of each family or unrelated individual in the sample was tested against the appropriate poverty threshold to determine the poverty status of that family or unrelated individual. If the total income was less than the corresponding cutoff, the family or unrelated individual was classified as "below the poverty level." The number of persons below the poverty level was the sum of the number of persons in families with incomes below the poverty level and the number of unrelated individuals with incomes below the poverty level.

The poverty thresholds are revised annually to allow for changes in the cost of living as reflected in the Consumer Price Index. The average poverty threshold for a family of four persons was \$12,674 in 1989. (For more information, see table A below.) Poverty thresholds were applied on a national basis and were not adjusted for regional, State or local variations in the cost of living. For a detailed discussion of the poverty definition, see U.S. Bureau of the Census, Current Population Reports, Series P-60, No. 171, *Poverty in the United States: 1988 and 1989*.

Persons for Whom Poverty Status is Determined—Poverty status was determined for all persons except institutionalized persons, persons in military group quarters and in college dormitories, and unrelated individuals under 15 years old. These groups also were excluded from the denominator when calculating poverty rates.

Specified Poverty Levels—Since the poverty levels currently in use by the Federal Government do not meet all the needs of data users, some of the data are presented for alternate levels. These specified poverty levels are obtained by multiplying the income cutoffs at the poverty level by the appropriate factor. For example, the average income cutoff at 125 percent of poverty level was \$15,843 (\$12,674 x 1.25) in 1989 for a family of four persons.

Weighted Average Thresholds at the Poverty Level—The average thresholds shown in the first column of table A are weighted by the presence and number of children. For example, the weighted average threshold for a given family size is obtained by multiplying the threshold for each presence and number of children category within the given family size by the number of families in that category. These products are then aggregated across the entire range of presence and number of children categories, and the aggregate is divided by the total number of families in the group to yield the weighted average threshold at the poverty level for that family size.

Since the basic thresholds used to determine the poverty status of families and unrelated individuals are applied to all families and unrelated individuals, the weighted average poverty thresholds are derived using all families and unrelated individuals rather than just those classified as being below the poverty level. To obtain the weighted poverty thresholds for families and unrelated individuals below alternate poverty levels, the weighted thresholds

shown in table A may be multiplied directly by the appropriate factor. The weighted average thresholds presented in the table are based on the March 1990 Current Population Survey. However, these thresholds would not differ significantly from those based on the 1990 census.

Income Deficit—Represents the difference between the total income of families and unrelated individuals below the poverty level and their respective poverty thresholds. In computing the income deficit, families reporting a net income loss are assigned zero dollars and for such cases the deficit is equal to the poverty threshold.

This measure provided an estimate of the amount which would be required to raise the incomes of all poor families and unrelated individuals to their respective poverty thresholds. The income deficit is thus a measure of the degree of impoverishment of a family or unrelated individual. However, caution must be used in comparing the average deficits of families with different characteristics. Apparent differences in average income deficits may, to some extent, be a function of differences in family size.

Mean Income Deficit—Represents the amount obtained by dividing the total income deficit of a group below the poverty level by the number of families (or unrelated individuals) in that group.

Comparability—The poverty definition used in the 1990 and 1980 censuses differed slightly from the one used in the 1970 census. Three technical modifications were made to the definition used in the 1970 census as described below:

1. The separate thresholds for families with a female householder with no husband present and all other families were eliminated. For the 1980 and 1990 censuses, the weighted average of the poverty thresholds for these two types of families was applied to all types of families, regardless of the sex of the householder.

2. Farm families and farm unrelated individuals no longer had a set of poverty thresholds that were lower than the thresholds applied to nonfarm families and unrelated individuals. The farm thresholds were 85 percent of the corresponding levels for nonfarm families in the 1970 census. The same thresholds were applied to all families and unrelated individuals regardless of residence in 1980 and 1990.
3. The thresholds by size of family were extended from seven or more persons in 1970 to nine or more persons in 1980 and 1990.

These changes resulted in a minimal increase in the number of poor at the national level. For a complete discussion of these modifications and their impact, see the Current Population Reports, Series P-60, No. 133.

The population covered in the poverty statistics derived from the 1980 and 1990 censuses was essentially the same as in the 1970 census. The only difference was that in 1980 and 1990, unrelated individuals under 15 years old were excluded from the poverty universe, while in 1970, only those under 14 years old were excluded. The poverty data from the 1960 census excluded all persons in group quarters and included all unrelated individuals regardless of age. It was unlikely that these differences in population coverage would have had significant impact when comparing the poverty data for persons since the 1960 censuses.

Current Population Survey—Because of differences in the questionnaires and data collection procedures, estimates of the number of persons below the poverty level by various characteristics from the 1990 census may differ from those reported in the March 1990 Current Population Survey.

RACE

The data on race were derived from answers to questionnaire item 4, which was asked of all persons. The concept of race as used by the Census Bureau reflects

Table A. Poverty Thresholds in 1989 by Size of Family and Number of Related Children Under 18 Years

Size of Family Unit	Weighted average thresholds	Related children under 18 years									
		None	One	Two	Three	Four	Five	Six	Seven	Eight or more	
One person (unrelated individual).	\$6,310										
Under 65 years.....	6,451	\$6,451									
65 years and over	5,947	5,947									
Two persons.....	8,076										
Householder under 65 years...	8,343	8,303	\$8,547								
Householder 65 years and over	7,501	7,495	8,515								
Three persons	9,885	9,699	9,981	\$9,990							
Four persons	12,674	12,790	12,999	12,575	\$12,619						
Five persons.....	14,990	15,424	15,648	15,169	14,798	\$14,572					
Six persons.....	16,921	17,740	17,811	17,444	17,092	16,569	\$16,259				
Seven persons.....	19,162	20,412	20,540	20,101	19,794	19,224	18,558	\$17,828			
Eight persons.....	21,328	22,830	23,031	22,617	22,253	21,738	21,084	20,403	\$20,230		
Nine or more persons	25,480	27,463	27,596	27,229	26,921	26,415	25,719	25,089	24,933	\$23,973	

self-identification; it does not denote any clear-cut scientific definition of biological stock. The data for race represent self-classification by people according to the race with which they most closely identify. Furthermore, it is recognized that the categories of the race item include both racial and national origin or socio-cultural groups.

During direct interviews conducted by enumerators, if a person could not provide a single response to the race question, he or she was asked to select, based on self-identification, the group which best described his or her racial identity. If a person could not provide a single race response, the race of the mother was used. If a single race response could not be provided for the person's mother, the first race reported by the person was used. In all cases where occupied housing units, households, or families are classified by race, the race of the householder was used.

The racial classification used by the Census Bureau generally adheres to the guidelines in Federal Statistical Directive No. 15, issued by the Office of Management and Budget, which provides standards on ethnic and racial categories for statistical reporting to be used by all Federal agencies. The racial categories used in the 1990 census data products are provided below.

White—Includes persons who indicated their race as "White" or reported entries such as Canadian, German, Italian, Lebanese, Near Easterner, Arab, or Polish.

Black—Includes persons who indicated their race as "Black or Negro" or reported entries such as African American, Afro-American, Black Puerto Rican, Jamaican, Nigerian, West Indian, or Haitian.

American Indian, Eskimo, or Aleut—Includes persons who classified themselves as such in one of the specific race categories identified below.

American Indian—Includes persons who indicated their race as "American Indian," entered the name of an Indian tribe, or reported such entries as Canadian Indian, French-American Indian, or Spanish-American Indian.

American Indian Tribe—Persons who identified themselves as American Indian were asked to report their enrolled or principal tribe. Therefore, tribal data in tabulations reflect the written tribal entries reported on the questionnaires. Some of the entries (for example, Iroquois, Sioux, Colorado River, and Flathead) represent nations or reservations.

The information on tribe is based on self-identification and therefore does not reflect any designation of Federally- or State-recognized tribe. Information on American Indian tribes is presented in summary tape files and special data products. The information is derived from the American Indian Detailed Tribal

Classification List for the 1990 census. The classification list represents all tribes, bands, and clans that had a specified number of American Indians reported on the census questionnaire.

Eskimo—Includes persons who indicated their race as "Eskimo" or reported entries such as Arctic Slope, Inupiat, and Yupik.

Aleut—Includes persons who indicated their race as "Aleut" or reported entries such as Alutiiq, Egegik, and Pribilovian.

Asian or Pacific Islander—Includes persons who reported in one of the Asian or Pacific Islander groups listed on the questionnaire or who provided write-in responses such as Thai, Nepali, or Tongan. A more detailed listing of the groups comprising the Asian or Pacific Islander population is presented in figure 2 below. In some data products, information is presented separately for the Asian population and the Pacific Islander population.

Asian—Includes "Chinese," "Filipino," "Japanese," "Asian Indian," "Korean," "Vietnamese," and "Other Asian." In some tables, "Other Asian" may not be shown separately, but is included in the total Asian population.

Chinese—Includes persons who indicated their race as "Chinese" or who identified themselves as Cantonese, Tibetan, or Chinese American. In standard census reports, persons who reported as "Taiwanese" or "Formosan" are included here with Chinese. In special reports on the Asian or Pacific Islander population, information on persons who identified themselves as Taiwanese are shown separately.

Filipino—Includes persons who indicated their race as "Filipino" or reported entries such as Filipino, Philippine, or Filipino American.

Japanese—Includes persons who indicated their race as "Japanese" and persons who identified themselves as Nipponese or Japanese American.

Asian Indian—Includes persons who indicated their race as "Asian Indian" and persons who identified themselves as Bengalese, Bharat, Dravidian, East Indian, or Goanese.

Korean—Includes persons who indicated their race as "Korean" and persons who identified themselves as Korean American.

Vietnamese—Includes persons who indicated their race as "Vietnamese" and persons who identified themselves as Vietnamese American.

Cambodian—Includes persons who provided a write-in response such as Cambodian or Cambodia.

Hmong—Includes persons who provided a write-in response such as Hmong, Laohmong, or Mong.

Laotian—Includes persons who provided a write-in response such as Laotian, Laos, or Lao.

Thai—Includes persons who provided a write-in response such as Thai, Thailand, or Siamese.

Other Asian—Includes persons who provided a write-in response of Bangladeshi, Burmese, Indonesian, Pakistani, Sri Lankan, Amerasian, or Eurasian. See figure 2 for other groups comprising "Other Asian."

Pacific Islander—Includes persons who indicated their race as "Pacific Islander" by classifying themselves into one of the following groups or identifying themselves as one of the Pacific Islander cultural groups of Polynesian, Micronesian, or Melanesian.

Hawaiian—Includes persons who indicated their race as "Hawaiian" as well as persons who identified themselves as Part Hawaiian or Native Hawaiian.

Samoan—Includes persons who indicated their race as "Samoan" or persons who identified themselves as American Samoan or Western Samoan.

Guamanian—Includes persons who indicated their race as "Guamanian" or persons who identified themselves as Chamorro or Guam.

Other Pacific Islander—Includes persons who provided a write-in response of a Pacific Islander group such as Tahitian, Northern Mariana Islander, Palauan, Fijian, or a cultural group such as Polynesian, Micronesian, or Melanesian. See figure 2 for other groups comprising "Other Pacific Islander."

Other Race—Includes all other persons not included in the "White," "Black," "American Indian, Eskimo, or Aleut," and the "Asian or Pacific Islander" race categories described above. Persons reporting in the "Other race" category and providing write-in entries such as multiracial, multiethnic, mixed, interracial, Wesort, or a Spanish/Hispanic origin group (such as Mexican, Cuban, or Puerto Rican) are included here.

Written entries to three categories on the race item—"Indian (Amer.)," "Other Asian or Pacific Islander (API)," and "Other race"—were reviewed, edited, and coded by subject matter specialists. (For more information on the coding operation, see the section below that discusses "Comparability.")

The written entries under "Indian (Amer.)," and "Other Asian or Pacific Islander (API)" were reviewed and coded during 100-percent processing of the 1990 census questionnaires. A substantial portion of the entries for the "Other race" category also were reviewed, edited, and coded during the 100-percent processing. The remaining entries under "Other race" underwent review and coding during sample processing. Most of the written entries reviewed and coded during sample processing were those indicating Hispanic origin such as Mexican, Cuban, or Puerto Rican.

If the race entry for a member of a household was missing on the questionnaire, race was assigned based upon the reported entries of race by other household members using specific rules of precedence of household relationship. For example, if race was missing for the daughter of the householder, then the race of her mother (as female householder or female spouse) would be assigned. If there was no female householder or spouse in the household, the daughter would be assigned her father's (male householder) race. If race was not reported for anyone in the household, the race of a householder in a previously processed household was assigned. This procedure is a variation of the general imputation procedures described in Appendix C, Accuracy of the Data.

Limitation of the Data—In the 1980 census, a relatively high proportion (20 percent) of American Indians did not report any tribal entry in the race item. Evaluation of the pre-census tests indicated that changes made for the 1990 race item should improve the reporting of tribes in the rural areas (especially on reservations) for the 1990 census. The results for urban areas were inconclusive. Also, the precensus tests indicated that there may be overreporting of the Cherokee tribe. An evaluation of 1980 census data showed overreporting of Cherokee in urban areas or areas where the number of American Indians was sparse.

In the 1990 census, respondents sometimes did not fill in a circle or filled the "Other race" circle and wrote in a response, such as Arab, Polish, or African American in the shared write-in box for "Other race" and "Other API" responses. During the automated coding process, these responses were edited and assigned to the appropriate racial designation. Also, some Hispanic origin persons did not fill in a circle, but provided entries such as Mexican or Puerto Rican. These persons were classified in the "Other race" category during the coding and editing process. There may be some minor differences between sample data and 100-percent data because sample processing included additional edits not included in the 100-percent processing.

Figure 2. Asian or Pacific Islander Groups Reported in the 1990 Census

Asian	Pacific Islander
Chinese	Hawaiian
Filipino	Samoan
Japanese	Guamanian
Asian Indian	Other Pacific Islander ¹
Korean	Carolinian
Vietnamese	Fijian
Cambodian	Kosraean
Hmong	Melanesian ³
Laotian	Micronesia ³
Thai	Northern Mariana Islander
Other Asian ¹	Palauan
Bangladeshi	Papua New Guinean
Bhutanese	Ponapean (Pohnpeian)
Borneo	Polynesian ³
Burmese	Solomon Islander
Celebesian	Tahitian
Ceram	Tarawa Islander
Indochinese	Tokelauan
Indonesian	Tongan
Iwo-Jiman	Trukese (Chuukese)
Javanese	Yapese
Malayan	Pacific Islander, not specified
Maldivian	
Nepali	
Okinawan	
Pakistani	
Sikkim	
Singaporean	
Sri Lankan	
Sumatran	
Asian, not specified ²	

¹In some data products, specific groups listed under "Other Asian" or "Other Pacific Islander" are shown separately. Groups not shown are tabulated as "All other Asian" or "All other Pacific Islander," respectively.

²Includes entries such as Asian American, Asian, Asiatic, Amerasian, and Eurasian.

³Polynesian, Micronesia, and Melanesian are Pacific Islander cultural groups.

Comparability—Differences between the 1990 census and earlier censuses affect the comparability of data for certain racial groups and American Indian tribes. The 1990 census was the first census to undertake, on a 100-percent basis, an automated review, edit, and coding operation for written responses to the race item. The automated coding system used in the 1990 census greatly reduced the potential for error associated with a clerical review. Specialists with a thorough knowledge of the race subject matter reviewed, edited, coded, and resolved inconsistent or incomplete responses. In the 1980 census, there was only a limited clerical review of the race responses on the 100-percent forms with a full clerical review conducted only on the sample questionnaires.

Another major difference between the 1990 and preceding censuses is the handling of the write-in responses for the Asian or Pacific Islander populations. In addition to the nine Asian or Pacific Islander categories shown on the questionnaire under the spanner "Asian or Pacific Islander (API)," the 1990 census race item provided a new residual category, "Other API," for Asian or Pacific Islander persons who did not report in one of the listed Asian or Pacific

Islander groups. During the coding operation, write-in responses for "Other API" were reviewed, coded, and assigned to the appropriate classification. For example, in 1990, a write-in entry of Laotian, Thai, or Javanese is classified as "Other Asian," while a write-in entry of Tongan or Fijian is classified as "Other Pacific Islander." In the 1990 census, these persons were able to identify as "Other API" in both the 100-percent and sample operations.

In the 1980 census, the nine Asian or Pacific Islander groups were also listed separately. However, persons not belonging to these nine groups wrote in their specific racial group under the "Other" race category. Persons with a written entry such as Laotian, Thai, or Tongan, were tabulated and published as "Other race" in the 100-percent processing operation in 1980, but were reclassified as "Other Asian and Pacific Islander" in 1980 sample tabulations. In 1980 special reports on the Asian or Pacific Islander populations, data were shown separately for "Other Asian" and "Other Pacific Islander."

The 1970 questionnaire did not have separate race categories for Asian Indian, Vietnamese, Samoan, and Guamanian. These persons indicated their race in the "Other" category and later, through the editing process, were assigned to a specific group. For example, in 1970, Asian Indians were reclassified as "White," while Vietnamese, Guamanians, and Samoans were included in the "Other" category.

Another difference between 1990 and preceding censuses is the approach taken when persons of Spanish/Hispanic origin did not report in a specific race category but reported as "Other race" or "Other." These persons commonly provided a write-in entry such as Mexican, Venezuelan, or Latino. In the 1990 and 1980 censuses, these entries remained in the "Other race" or "Other" category, respectively. In the 1970 census, most of these persons were included in the "White" category.

REFERENCE WEEK

The data on labor force status and journey to work were related to the reference week; that is, the calendar week preceding the date on which the respondents completed their questionnaires or were interviewed by enumerators. This week is not the same for all respondents since the enumeration was not completed in one week. The occurrence of holidays during the enumeration period could affect the data on actual hours worked during the reference week, but probably had no effect on overall measurement of employment status (see the discussion below on "Comparability").

Comparability—The reference weeks for the 1990 and 1980 censuses differ in that Passover and Good Friday occurred in the first week of April 1980, but in the second week of April 1990. Many workers presumably took time off for those observances. The differing occurrence of

these holidays could affect the comparability of the 1990 and 1980 data on actual hours worked for some areas if the respective weeks were the reference weeks for a significant number of persons. The holidays probably did not affect the overall measurement of employment status since this information was based on work activity during the entire reference week.

RESIDENCE IN 1985

The data on residence in 1985 were derived from answers to question 14b, which asked for the State (or foreign country), county, and place of residence on April 1, 1985, for those persons reporting in question 14a that on that date they lived in a different house than their current residence. Residence in 1985 is used in conjunction with location of current residence to determine the extent of residential mobility of the population and the resulting redistribution of the population across the various States, metropolitan areas, and regions of the country.

When no information on residence in 1985 was reported for a person, information for other family members, if available, was used to assign a location of residence in 1985. All cases of nonresponse or incomplete response that were not assigned a previous residence based on information from other family members were allocated the previous residence of another person with similar characteristics who provided complete information.

The tabulation category, "Same house," includes all persons 5 years old and over who did not move during the 5 years as well as those who had moved but by 1990 had returned to their 1985 residence. The category, "Different house in the United States," includes persons who lived in the United States in 1985 but in a different house or apartment from the one they occupied on April 1, 1990. These movers are then further subdivided according to the type of move.

In most tabulations, movers are divided into three groups according to their 1985 residence: "Different house, same county," "Different county, same State," and "Different State." The last group may be further subdivided into region of residence in 1985. The category, "Abroad," includes those persons who were residing in a foreign country, Puerto Rico, or an outlying area of the U.S. in 1985, including members of the Armed Forces and their dependents. Some tabulations show movers who were residing in Puerto Rico or an outlying area in 1985 separately from those residing in other countries.

In tabulations for metropolitan areas, movers are categorized according to the metropolitan status of their current and previous residences, resulting in such groups as movers within an MSA/PMSA, movers between MSA/PMSA's, movers from nonmetropolitan areas to MSA/PMSA, and movers from central cities to the remainder of an MSA/PMSA. In some tabulations, these categories are further subdivided by size of MSA/PMSA, region of current or previous residence, or movers within or between central cities and the remainder of the same or a different MSA/PMSA.

The size categories used in some tabulations for both 1985 and 1990 residence refer to the populations of the MSA/PMSA on April 1, 1990; that is, at the end of the migration interval.

Some tabulations present data on immigrants, outmigrants, and net migration. "Immigrants" are generally defined as those persons who entered a specified area by crossing its boundary from some point outside the area. In some tabulations, movers from abroad are included in the number of immigrants; in others, only movers within the United States are included.

"Outmigrants" are persons who depart from a specific area by crossing its boundary to a point outside it, but without leaving the United States. "Net migration" is calculated by subtracting the number of outmigrants from the number of immigrants and, depending upon the particular tabulation, may or may not include movers from abroad. The net migration for the area is net immigration if the result was positive and net outmigration if the result was negative. In the tabulations, net outmigration is indicated by a minus sign (-).

Immigrants and outmigrants for States include only those persons who did not live in the same State in 1985 and 1990; that is, they exclude persons who moved between counties within the same State. Thus, the sum of the immigrants to (or outmigrants from) all counties in any State is greater than the number of immigrants to (or outmigrants from) that State. However, in the case of net migration, the sum of the nets for all the counties within a State equal the net for the State. In the same fashion, the net migration for a division or region equals the sum of the nets for the States comprising that division or region, while the number of immigrants and outmigrants for that division or region is less than the sum of the immigrants or outmigrants for the individual States.

The number of persons who were living in a different house in 1985 is somewhat less than the total number of moves during the 5-year period. Some persons in the same house at the two dates had moved during the 5-year period but by the time of the census had returned to their 1985 residence. Other persons who were living in a different house had made one or more intermediate moves. For similar reasons, the number of persons living in a different county, MSA/PMSA, or State or moving between nonmetropolitan areas may be understated.

Comparability—Similar questions were asked on all previous censuses beginning in 1940, except the questions in 1950 referred to residence 1 year earlier rather than 5 years earlier. Although the questions in the 1940 census covered a 5-year period, comparability with that census was reduced somewhat because of different definitions and categories of tabulation. Comparability with the 1960 and 1970 census is also somewhat reduced because nonresponse was not allocated in those earlier censuses. For the 1980 census, nonresponse was allocated in a manner similar to the 1990 allocation scheme.

SCHOOL ENROLLMENT AND LABOR FORCE STATUS

Tabulation of data on enrollment, educational attainment, and labor force status for the population 16 to 19 years old allows for calculation of the proportion of the age group who are not enrolled in school and not high school graduates or "dropouts" and an unemployment rate for the "dropout" population. Definitions of the three topics and descriptions of the census items from which they were derived are presented in "Educational Attainment," "Employment Status," and "School Enrollment and Type of School." The published tabulations include both the civilian and Armed Forces populations, but labor force status is provided for the civilian population only. Therefore, the component labor force statuses may not add to the total lines *enrolled in school, high school graduate, and not high school graduate*. The difference is Armed Forces.

Comparability—The tabulation of school enrollment by labor force status is similar to that published in 1980 census reports. The 1980 census tabulation included a single data line for Armed Forces; however, enrollment, attainment, and labor force status data were shown for the civilian population only. In 1970, a tabulation was included for 16 to 21 year old males not attending school.

SCHOOL ENROLLMENT AND TYPE OF SCHOOL

Data on school enrollment were derived from answers to questionnaire item 11, which was asked of a sample of persons. Persons were classified as enrolled in school if they reported attending a "regular" public or private school or college at any time between February 1, 1990, and the time of enumeration. The question included instructions to "include only nursery school, kindergarten, elementary school, and schooling which would lead to a high school diploma or a college degree" as regular school. Instructions included in the 1990 respondent instruction guide, which was mailed with the census questionnaire, further specified that enrollment in a trade or business school, company training, or tutoring were not to be included unless the course would be accepted for credit at a regular elementary school, high school, or college. Persons who did not answer the enrollment question were assigned the enrollment status and type of school of a person with the same age, race or Hispanic origin, and, at older ages, sex, whose residence was in the same or a nearby area.

Public and Private School—Includes persons who attended school in the reference period and indicated they were enrolled by marking one of the questionnaire categories for either "public school, public college" or "private school, private college." The instruction guide defines a public school as "any school or college controlled and supported by a local, county, State, or Federal Government." "Schools supported and controlled primarily by religious organizations or other private groups" are defined as private. Persons who filled both the "public" and "private" circles are edited to the first entry, "public."

Level of School in Which Enrolled—Persons who were enrolled in school were classified as enrolled in "preprimary school," "elementary or high school," or "college" according to their response to question 12 (years of school completed or highest degree received). Persons who were enrolled and reported completing nursery school or less were classified as enrolled in "preprimary school," which includes kindergarten. Similarly, enrolled persons who had completed at least kindergarten, but not high school, were classified as enrolled in elementary or high school. Enrolled persons who reported completing high school or some college or having received a post-secondary degree were classified as enrolled in "college." Enrolled persons who reported completing the twelfth grade but receiving "NO DIPLOMA" were classified as enrolled in high school. (For more information on level of school, see the discussion under "Educational Attainment.")

Comparability—School enrollment questions have been included in the census since 1840; grade attended was first asked in 1940; type of school was first asked in 1960. Before 1940, the enrollment question in various censuses referred to attendance in the preceding six months or the preceding year. In 1940, the reference was to attendance in the month preceding the census, and in the 1950 and subsequent censuses, the question referred to attendance in the two months preceding the census date.

Until the 1910 census, there were no instructions limiting the kinds of schools in which enrollment was to be counted. Starting in 1910, the instructions indicated that attendance at "school, college, or any educational institution" was to be counted. In 1930 an instruction to include "night school" was added. In the 1940 instructions, night school, extension school, or vocational school were included only if the school was part of the regular school system. Correspondence school work of any kind was excluded. In the 1950 instructions, the term "regular school" was introduced, and it was defined as schooling which "advances a person towards an elementary or high school diploma or a college, university, or professional school degree." Vocational, trade, or business schools were excluded unless they were graded and considered part of a regular school system. On-the-job training was excluded, as was nursery school. Instruction by correspondence was excluded unless it was given by a regular school and counted towards promotion.

In 1960, the question used the term "regular school or college" and a similar, though expanded, definition of "regular" was included in the instructions, which continued to exclude nursery school. Because of the census' use of mailed questionnaires, the 1960 census was the first in which instructions were written for the respondent as well as enumerators. In the 1970 census, the questionnaire used the phrase "regular school or college" and included instructions to "count nursery school, kindergarten, and schooling which leads to an elementary school certificate, high school diploma, or college degree." Instructions in a separate document specified that to be counted as regular

school, nursery school must include instruction as an important and integral phase of its program, and continued the exclusion of vocational, trade, and business schools. The 1980 census question was very similar to the 1970 question, but the separate instruction booklet did not require that nursery school include substantial instructional content in order to be counted.

The age range for which enrollment data have been obtained and published has varied over the censuses. Information on enrollment was recorded for persons of all ages in the 1930 and 1940 and 1970 through 1990; for persons under age 30, in 1950; and for persons age 5 to 34, in 1960. Most of the published enrollment figures referred to persons age 5 to 20 in the 1930 census, 5 to 24 in 1940, 5 to 29 in 1950, 5 to 34 in 1960, 3 to 34 in 1970, and 3 years old and over in 1980. This growth in the age group whose enrollment was reported reflects increased interest in the number of children in preprimary schools and in the number of older persons attending colleges and universities.

In the 1950 and subsequent censuses, college students were enumerated where they lived while attending college, whereas in earlier censuses, they generally were enumerated at their parental homes. This change should not affect the comparability of national figures on college enrollment since 1940; however, it may affect the comparability over time of enrollment figures at sub-national levels.

Type of school was first introduced in the 1960 census, where a separate question asked the enrolled persons whether they were in a "public" or "private" school. Since the 1970 census, the type of school was incorporated into the response categories for the enrollment question and the terms were changed to "public," "parochial," and "other private." In the 1980 census, "private, church related" and "private, not church related" replaced "parochial" and "other private."

Grade of enrollment was first available in the 1940 census, where it was obtained from responses to the question on highest grade of school completed. Enumerators were instructed that "for a person still in school, the last grade completed will be the grade preceding the one in which he or she was now enrolled." From 1950 to 1980, grade of enrollment was obtained from the highest grade attended in the two-part question used to measure educational attainment. (For more information, see the discussion under "Educational Attainment.") The form of the question from which level of enrollment was derived in the 1990 census most closely corresponds to the question used in 1940. While data from prior censuses can be aggregated to provide levels of enrollment comparable to the 1990 census, 1990 data cannot be disaggregated to show single grade of enrollment as in previous censuses.

Data on school enrollment were also collected and published by other Federal, State, and local government agencies. Where these data were obtained from administrative records of school systems and institutions of higher learning, they were only roughly comparable with data from population censuses and household surveys because of

differences in definitions and concepts, subject matter covered, time references, and enumeration methods. At the local level, the difference between the location of the institution and the residence of the student may affect the comparability of census and administrative data. Differences between the boundaries of school districts and census geographic units also may affect these comparisons.

SELF-CARE LIMITATION STATUS

The data on self-care limitation status were derived from answers to questionnaire item 19b, which was asked of a sample of persons 15 years old and over. Persons were identified as having a self-care limitation if they had a health condition that had lasted for 6 or more months and which made it difficult to take care of their own personal needs, such as dressing, bathing, or getting around inside the home.

The term "health condition" referred to both physical and mental conditions. A temporary health problem, such as a broken bone that was expected to heal normally was not considered a health condition.

Comparability—This was the first time that a question on self-care limitation was included in the census.

SEX

The data on sex were derived from answers to questionnaire item 3, which was asked of all persons. For most cases in which sex was not reported, it was determined by the appropriate entry from the person's given name and household relationship. Otherwise, sex was imputed according to the relationship to the householder and the age and marital status of the person. For more information on imputation, see Appendix C, Accuracy of the Data.

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

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

VETERAN STATUS

Data on veteran status, period of military service, and years of military service were derived from answers to questionnaire item 17, which was asked of a sample of persons.

Veteran Status—The data on veteran status were derived from responses to question 17a. For census data products, a "civilian veteran" is a person 16 years old or over who had served (even for a short time) but is not now

serving on active duty in the U.S. Army, Navy, Air Force, Marine Corps, or the Coast Guard, or who served as a Merchant Marine seaman during World War II. Persons who served in the National Guard or military Reserves are classified as veterans only if they were ever called or ordered to active duty not counting the 4-6 months for initial training or yearly summer camps. All other civilians 16 years old and over are classified as nonveterans.

Period of Military Service—Persons who indicated in question 17a that they had served on active duty (civilian veterans) or were now on active duty were asked to indicate in question 17b the period or periods in which they served. Persons serving in at least one wartime period are classified in their most recent wartime period. For example, persons who served both during the Korean conflict and the post-Korean peacetime era between February 1955 and July 1964 are classified in one of the two “Korean conflict” categories. If the same person had also served during the Vietnam era, he or she would instead be included in the “Vietnam era and Korean conflict” category. The responses were edited to eliminate inconsistencies between reported period(s) of service and the age of the person and to cancel out reported combinations of periods containing unreasonable gaps (for example, a person could not serve during World War I and the Korean conflict without serving during World War II). Note that the period of service categories shown in this report are mutually exclusive.

Years of Military Service—Persons who indicated in question 17a that they had served on active duty (civilian veterans) or were now on active duty were asked to report the total number of years of active-duty service in question 17c. The data were edited for consistency with responses to question 17b (Period of Military Service) and with the age of the person.

Limitation of the Data—There may be a tendency for the following kinds of persons to report erroneously that they served on active duty in the Armed Forces: (a) persons who served in the National Guard or military Reserves but were never called to active duty; (b) civilian employees or volunteers for the USO, Red Cross, or the Department of Defense (or its predecessor Departments, War and Navy); and (c) employees of the Merchant Marine or Public Health Service. There may also be a tendency for persons to erroneously round up months to the nearest year in question 17c (for example, persons with 1 year 8 months of active duty military service may mistakenly report “2 years”).

Comparability—Since census data on veterans were based on self-reported responses, they may differ from data from other sources such as administrative records of the Department of Defense. Census data may also differ from Veterans Administration data on the benefits-eligible population, since factors determining eligibility for veterans benefits differ from the rules for classifying veterans in the census.

The wording of the question on veteran status (17a) for 1990 was expanded from the veteran/ not veteran question in 1980 to include questions on current active duty status and service in the military Reserves and the National Guard. The expansion was intended to clarify the appropriate response for persons in the Armed Forces and for persons who served in the National Guard or military Reserve units only. For the first time in a census, service during World War II as a Merchant Marine Seaman was considered active-duty military service and persons with such service were counted as veterans. An additional period of military service, “September 1980 or later” was added in 1990. As in 1970 and 1980, persons reporting more than one period of service are shown in the most recent wartime period of service category. Question 17c (Years of Military Service) was new for 1990.

WORK DISABILITY STATUS

The data on work disability were derived from answers to questionnaire item 18, which was asked of a sample of persons 15 years old and over. Persons were identified as having a work disability if they had a health condition that had lasted for 6 or more months and which limited the kind or amount of work they could do at a job or business. A person was limited in the kind of work he or she could do if the person had a health condition which restricted his or her choice of jobs. A person was limited in the amount of work if he or she was not able to work full-time. Persons with a work disability were further classified as “Prevented from working” or “Not prevented from working.”

The term “health condition” referred to both physical and mental conditions. A temporary health problem, such as a broken bone that was expected to heal normally, was not considered a health condition.

Comparability—The wording of the question on work disability was the same in 1990 as in 1980. Information on work disability was first collected in 1970. In that census, the work disability question did not contain a clause restricting the definition of disability to limitations caused by a health condition that had lasted 6 or more months; however, it did contain a separate question about the duration of the disability.

WORK STATUS IN 1989

The data on work status in 1989 were derived from answers to questionnaire item 31, which was asked of a sample of persons. Persons 16 years old and over who worked 1 or more weeks according to the criteria described below are classified as “Worked in 1989.” All other persons 16 years old and over are classified as “Did not work in 1989.” Some tabulations showing work status in 1989 include 15 year olds; these persons, by definition, are classified as “Did not work in 1989.”

Weeks Worked in 1989

The data on weeks worked in 1989 were derived from responses to questionnaire item 31b. Question 31b (Weeks Worked in 1989) was asked of persons 16 years old and over who indicated in question 31a that they worked in 1989.

The data pertain to the number of weeks during 1989 in which a person did any work for pay or profit (including paid vacation and paid sick leave) or worked without pay on a family farm or in a family business. Weeks of active service in the Armed Forces are also included.

Usual Hours Worked Per Week Worked in 1989

The data on usual hours worked per week worked in 1989 were derived from answers to questionnaire item 31c. This question was asked of persons 16 years old and over who indicated that they worked in 1989.

The data pertain to the number of hours a person usually worked during the weeks worked in 1989. The respondent was to report the number of hours worked per week in the majority of the weeks he or she worked in 1989. If the hours worked per week varied considerably during 1989, the respondent was to report an approximate average of the hours worked per week. The statistics on usual hours worked per week in 1989 are not necessarily related to the data on actual hours worked during the census reference week (question 21b).

Persons 16 years old and over who reported that they usually worked 35 or more hours each week during the weeks they worked are classified as "Usually worked full time;" persons who reported that they usually worked 1 to 34 hours are classified as "Usually worked part time."

Year-Round Full-Time Workers—All persons 16 years old and over who usually worked 35 hours or more per week for 50 to 52 weeks in 1989.

Number of Workers in Family in 1989—The term "worker" as used for these data is defined based on the criteria for Work Status in 1989.

Limitation of the Data—It is probable that the number of persons who worked in 1989 and the number of weeks worked are understated since there was some tendency for respondents to forget intermittent or short periods of employment or to exclude weeks worked without pay. There may also be a tendency for persons not to include weeks of paid vacation among their weeks worked; one result may be that the census figures may understate the number of persons who worked "50 to 52 weeks."

Comparability—The data on weeks worked collected in the 1990 census were comparable with data from the 1980, 1970, and 1960 censuses, but may not be entirely comparable with data from the 1940 and 1950 censuses. Since the 1960 census, two separate questions have been

used to obtain this information. The first identified persons with any work experience during the year and, thus, indicated those persons for whom the questions on number of weeks worked applied. In 1940 and 1950, however, the questionnaires contained only a single question on number of weeks worked.

In 1970, persons responded to the question on weeks worked by indicating one of six weeks-worked intervals. In 1980 and 1990, persons were asked to enter the specific number of weeks they worked.

YEAR OF ENTRY

The data on year of entry were derived from answers to questionnaire item 10, which was asked of a sample of persons. The question, "When did this person come to the United States to stay?" was asked of persons who indicated in the question on citizenship that they were not born in the United States. (For more information, see the discussion under "Citizenship.")

The 1990 census questions, tabulations, and census data products about citizenship and year of entry include no reference to immigration. All persons who were born and resided outside the United States before becoming residents of the United States have a date of entry. Some of these persons are U.S. citizens by birth (e.g., persons born in Puerto Rico or born abroad of American parents). To avoid any possible confusion concerning the date of entry of persons who are U.S. citizens by birth, the term, "year of entry" is used in this report instead of the term "year of immigration."

Limitation of the Data—The census questions on nativity, citizenship, and year of entry were not designed to measure the degree of permanence of residence in the United States. The phrase, "to stay" was used to obtain the year in which the person became a resident of the United States. Although the respondent was directed to indicate the year he or she entered the country "to stay," it was difficult to ensure that respondents interpreted the phrase correctly.

Comparability—A question on year of entry, (alternately called "year of immigration") was asked in each decennial census from 1890 to 1930, 1970, and 1980. In 1980, the question on year of entry included six arrival time intervals. The number of arrival intervals was expanded to ten in 1990. In 1980, the question on year of entry was asked only of the foreign-born population. In 1990, all persons who responded to the long-form questionnaire and were not born in the United States were to complete the question on year of entry.

HOUSING CHARACTERISTICS

LIVING QUARTERS

Living quarters are classified as either housing units or group quarters. (For more information, see the discussion of "Group Quarters" under Population Characteristics.)

Usually, living quarters are in structures intended for residential use (for example, a one-family home, apartment house, hotel or motel, boarding house, or mobile home). Living quarters also may be in structures intended for nonresidential use (for example, the rooms in a warehouse where a guard lives), as well as in places such as tents, vans, shelters for the homeless, dormitories, barracks, and old railroad cars.

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

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

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

If the living quarters contains nine or more persons unrelated to the householder or person in charge (a total of at least 10 unrelated persons), it is classified as group quarters. If the living quarters contains eight or fewer persons unrelated to the householder or person in charge, it is classified as a housing unit.

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

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

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

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

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

Staff Living Quarters—The living quarters occupied by staff personnel within any group quarters are separate housing units if they satisfy the housing unit criteria of separateness and direct access; otherwise, they are considered group quarters.

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

ACREAGE

The data on acreage were obtained from questionnaire items H5a and H19a. Question H5a was asked at all occupied and vacant one-family houses and mobile homes. Question H19a was asked on a sample basis at occupied and vacant one-family houses and mobile homes.

Question H5a asks whether the house or mobile home is located on a place of 10 or more acres. The intent of this

item is to exclude owner-occupied and renter-occupied one-family houses on 10 or more acres from the specified owner- and renter-occupied universes for value and rent tabulations.

Question H19a provides data on whether the unit is located on less than 1 acre. The main purpose of this item, in conjunction with question H19b on agricultural sales, is to identify farm units. (For more information, see discussion under "Farm Residence.")

For both items, the land may consist of more than one tract or plot. These tracts or plots are usually adjoining; however, they may be separated by a road, creek, another piece of land, etc.

Comparability—Question H5a is similar to that asked in 1970 and 1980. This item was asked for the first time of mobile home occupants in 1990. Question H19a is an abbreviated form of a question asked on a sample basis in 1980. In previous censuses, information on city or suburban lot and number of acres was obtained also.

AGRICULTURAL SALES

Data on the sales of agricultural crops were obtained from questionnaire item H19b, which was asked on a sample basis at occupied one-family houses and mobile homes located on lots of 1 acre or more. Data for this item exclude units on lots of less than 1 acre, units located in structures containing 2 or more units, and all vacant units. This item refers to the total amount (before taxes and expenses) received in 1989 from the sale of crops, vegetables, fruits, nuts, livestock and livestock products, and nursery and forest products, produced on "this property." Respondents new to a unit were asked to estimate total agricultural sales in 1989 even if some portion of the sales had been made by other occupants of the unit.

This item is used mainly to classify housing units as farm or nonfarm residences, not to provide detailed information on the sale of agricultural products. Detailed information on the sale of agricultural products is provided by the Census Bureau's Census of Agriculture (*Factfinder for the Nation: Agricultural Statistics*, Bureau of the Census, 1989). (For more information, see the discussion under "Farm Residence.")

BEDROOMS

The data on bedrooms were obtained from questionnaire item H9, which was asked at both occupied and vacant housing units. This item was asked on a sample basis. The number of bedrooms is the count of rooms designed to be used as bedrooms; that is, the number of rooms that would be listed as bedrooms if the house or apartment were on the market for sale or for rent. Included are all rooms intended to be used as bedrooms even if

they currently are being used for some other purpose. A housing unit consisting of only one room, such as a one-room efficiency apartment, is classified, by definition, as having no bedroom.

Comparability—Data on bedrooms have been collected in every census since 1960. In 1970 and 1980, data for bedrooms were shown only for year-round units. In past censuses, a room was defined as a bedroom if it was used mainly for sleeping even if also used for other purposes. Rooms that were designed to be used as bedrooms but used mainly for other purposes were not considered to be bedrooms. A distribution of housing units by number of bedrooms calculated from data collected in a 1986 test showed virtually no differences in the two versions except in the two bedroom category, where the previous "use" definition showed a slightly lower proportion of units.

BOARDED-UP STATUS

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

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

BUSINESS ON PROPERTY

The data for business on property were obtained from questionnaire item H5b, which was asked at all occupied and vacant one-family houses and mobile homes. This question is used to exclude owner-occupied one-family houses with business or medical offices on the property from certain statistics on financial characteristics.

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

Comparability—Data on business on property have been collected since 1940.

CONDOMINIUM FEE

The data on condominium fee were obtained from questionnaire item H25, which was asked at owner-occupied condominiums. This item was asked on a sample basis. A condominium fee normally is charged monthly to the owners of the individual condominium units by the condominium owners association to cover operating, maintenance, administrative, and improvement costs of the common property (grounds, halls, lobby, parking areas, laundry rooms, swimming pool, etc.) The costs for utilities and/ or fuels may be included in the condominium fee if the units do not have separate meters.

Data on condominium fees may include real estate tax and/ or insurance payments for the common property, but do not include real estate taxes or fire, hazard, and flood insurance for the individual unit already reported in questions H21 and H22.

Amounts reported were the regular monthly payment, even if paid by someone outside the household or remain unpaid. Costs were estimated as closely as possible when exact costs were not known.

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

Comparability—This is a new item in 1990.

CONDOMINIUM STATUS

The data on condominium housing units were obtained from questionnaire item H18, which was asked on a sample basis at both occupied and vacant housing units. Condominium is a type of ownership that enables a person to own an apartment or house in a development of similarly owned units and to hold a common or joint ownership in some or all of the common areas and facilities such as land, roof, hallways, entrances, elevators, swimming pool, etc. Condominiums may be single-family houses as well as units in apartment buildings. A condominium unit need not be occupied by the owner to be counted as such. A unit classified as "mobile home or trailer" or "other" (see discussion under "Units in Structure") cannot be a condominium unit.

Limitation of the Data—Testing done prior to the 1980 and 1990 censuses indicated that the number of condominiums may be slightly overstated.

Comparability—In 1970, condominiums were grouped together with cooperative housing units, and the data were reported only for owner-occupied cooperatives and condominiums. Beginning in 1980, the census identified all

condominium units and the data were shown for renter-occupied and vacant year-round condominiums as well as owner occupied. In 1970 and 1980, the question on condominiums was asked on a 100-percent basis. In 1990, it was asked on a sample basis.

CONTRACT RENT

The data on contract rent (also referred to as "rent asked" for vacant units) were obtained from questionnaire item H7a, which was asked at all occupied housing units that were rented for cash rent and all vacant housing units that were for rent at the time of enumeration.

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

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

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

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

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

In some tabulations, contract rent is presented for all renter-occupied housing units, as well as specified renter-occupied and vacant-for-rent units. Specified renter-occupied and specified vacant-for-rent units exclude one-family houses on 10 or more acres. (For more information on rent, see the discussion under "Gross Rent.")

Median and Quartile Contract Rent—The median divides the rent distribution into two equal parts. Quartiles divide the rent distribution into four equal parts. In computing median and quartile contract rent, units reported as "No

cash rent" are excluded. Median and quartile rent calculations are rounded to the nearest whole dollar. (For more information on medians and quartiles, see the discussion under "Derived Measures.")

Aggregate Contract Rent—To calculate aggregate contract rent, the amount assigned for the category "Less than \$80" is \$50. The amount assigned to the category "\$1,000 or more" is \$1,250. Mean contract rent is rounded to the nearest whole dollar. (For more information on aggregates and means, see the discussion under "Derived Measures.")

Limitation of the Data—In the 1970 and 1980 censuses, contract rent for vacant units had high allocation rates, about 35 percent.

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

DURATION OF VACANCY

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

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

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

FARM RESIDENCE

The data on farm residence were obtained from questionnaire items H19a and H19b. An occupied one-family house or mobile home is classified as a farm residence if: (1) the housing unit is located on a property of 1 acre or more, and (2) at least \$1,000 worth of agricultural products were sold from the property in 1989. Group quarters and housing units that are in multi-unit buildings or vacant are not included as farm residences.

A one-family unit occupied by a tenant household paying cash rent for land and buildings is enumerated as a farm residence only if sales of agricultural products from its yard (as opposed to the general property on which it is located) amounted to at least \$1,000 in 1989. A one-family unit occupied by a tenant household that does not pay cash rent is enumerated as a farm residence if the remainder of the farm (including its yard) qualifies as a farm.

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

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

Comparability—These are the same criteria that were used to define a farm residence in 1980. In 1960 and 1970, a farm was defined as a place of 10 or more acres with at least \$50 worth of agricultural sales or a place of less than 10 acres with at least \$250 worth of agricultural sales. Earlier censuses used other definitions. Note that the definition of a farm residence differs from the definition of a farm in the Census of Agriculture (*Factfinder for the Nation: Agricultural Statistics*, Bureau of the Census, 1989).

GROSS RENT

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

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

GROSS RENT AS A PERCENTAGE OF HOUSEHOLD INCOME IN 1989

Gross rent as a percentage of household income in 1989 is a computed ratio of monthly gross rent to monthly household income (total household income in 1989 divided by 12). The ratio was computed separately for each unit and was rounded to the nearest whole percentage. Units for which no cash rent is paid and units occupied by households that reported no income or a net loss in 1989 comprise the category "Not computed." This item is calculated on a sample basis.

HOUSE HEATING FUEL

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

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

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

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

Wood—Includes purchased wood, wood cut by household members on their property or elsewhere, driftwood, saw-mill or construction scraps, or the like.

Solar Energy—Includes heat provided by sunlight which is collected, stored, and actively distributed to most of the rooms.

Other Fuel—Includes all other fuels not specified elsewhere.

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

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

INSURANCE FOR FIRE, HAZARD, AND FLOOD

The data on fire, hazard, and flood insurance were obtained from questionnaire item H22, which was asked at a sample of owner-occupied one-family houses, condominiums, and mobile homes. The statistics for this item refer to the annual premium for fire, hazard, and flood insurance on

the property (land and buildings); that is, policies that protect the property and its contents against loss due to damage by fire, lightning, winds, hail, flood, explosion, and so on.

Liability policies are included only if they are paid with the fire, hazard, and flood insurance premiums and the amounts for fire, hazard, and flood cannot be separated. Premiums are included even if paid by someone outside the household or remain unpaid. When premiums are paid on other than a yearly basis, the premiums are converted to a yearly basis.

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

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

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

KITCHEN FACILITIES

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

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

MEALS INCLUDED IN RENT

The data on meals included in the rent were obtained from questionnaire item H7b, which was asked of all

occupied housing units that were rented for cash and all vacant housing units that were for rent at the time of enumeration.

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

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

MOBILE HOME COSTS

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

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

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

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

Comparability—This item is new for 1990.

MORTGAGE PAYMENT

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

The amounts reported include everything paid to the lender including principal and interest payments, real estate taxes, fire, hazard, and flood insurance payments, and mortgage insurance premiums. Separate questions determine whether real estate taxes and fire, hazard, and flood

insurance payments are included in the mortgage payment to the lender. This makes it possible to avoid counting these components twice in the computation of "Selected Monthly Owner Costs."

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

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

MORTGAGE STATUS

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

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

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

Comparability—A question on mortgage status was included in the 1940 and 1950 censuses, but not in the 1960 and 1970 censuses. The item was reinstated in 1980 along with a separate question dealing with the existence of second or junior mortgages. In 1980, the mortgage status questions were asked at owner-occupied one-family houses on less than 10 acres. Excluded were mobile homes,

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

PERSONS IN UNIT

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

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

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

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

PERSONS PER ROOM

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

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

PLUMBING FACILITIES

The data on plumbing facilities were obtained from questionnaire item H10, which was asked at both occupied and vacant housing units. This item was asked on a

sample basis. Complete plumbing facilities include hot and cold piped water, a flush toilet, and a bathtub or shower. All three facilities must be located inside the house, apartment, or mobile home, but not necessarily in the same room. Housing units are classified as lacking complete plumbing facilities when any of the three facilities are not present.

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

POVERTY STATUS OF HOUSEHOLDS IN 1989

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

REAL ESTATE TAXES

The data on real estate taxes were obtained from questionnaire item H21, which was asked at owner-occupied one-family houses, condominiums, and mobile homes. The statistics from this question refer to the total amount of all real estate taxes on the entire property (land and buildings) payable in 1989 to all taxing jurisdictions, including special assessments, school taxes, county taxes, and so forth.

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

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

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

ROOMS

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

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

Median Rooms—This measure divides the room distribution into two equal parts, one-half of the cases falling below the median number of rooms and one-half above the median. In computing median rooms, the whole number is used as the midpoint of the interval; thus, the category "3 rooms" is treated as an interval ranging from 2.5 to 3.5 rooms. Median rooms is rounded to the nearest tenth. (For more information on medians, see the discussion under "Derived Measures.")

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

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

SECOND OR JUNIOR MORTGAGE PAYMENT

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

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

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

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

SELECTED MONTHLY OWNER COSTS

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

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

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

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

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

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

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

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

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

SEWAGE DISPOSAL

The data on sewage disposal were obtained from questionnaire item H16, which was asked at both occupied and vacant housing units. This item was asked on a sample basis. Housing units are either connected to a public sewer, to a septic tank or cesspool, or they dispose

of sewage by other means. A public sewer may be operated by a government body or by a private organization. A housing unit is considered to be connected to a septic tank or cesspool when the unit is provided with an underground pit or tank for sewage disposal. The category, "Other means" includes housing units which dispose of sewage in some other way.

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

SOURCE OF WATER

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

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

TELEPHONE IN HOUSING UNIT

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

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

TENURE

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

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

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

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

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

For 1990, the response categories were expanded to allow the respondent to report whether the unit was owned with a mortgage or free and clear (without a mortgage). The distinction between units owned with a mortgage and units owned free and clear was added in 1990 to improve

the count of owner-occupied units. Research after the 1980 census indicated some respondents did not consider their units owned if they had a mortgage.

UNITS IN STRUCTURE

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

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

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

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

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

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

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

Comparability—Data on units in structure have been collected since 1940 and on mobile homes and trailers since 1950. In 1970 and 1980, these data were shown only for year-round housing units. In 1990, these data are

shown for all housing units. In 1980, the data were collected on a sample basis. The category, "Boat, tent, van, etc." was replaced in 1990 by the category "Other." In some areas, the proportion of units classified as "Other" is far larger than the number of units that were classified as "Boat, tent, van, etc." in 1980.

USUAL HOME ELSEWHERE

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

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

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

UTILITIES

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

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

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

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

such as renter-occupied units with all utilities included in the rent and owner-occupied condominium units with utilities included in the condominium fee.

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

VACANCY STATUS

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

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

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

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

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

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

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

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

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

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

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

VALUE

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

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

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

Aggregate Value—To calculate aggregate value, the amount assigned for the category “Less than \$10,000” is \$9,000. The amount assigned to the category “\$500,000 or more”

is \$600,000. Mean value is rounded to the nearest hundred dollars. (For more information on aggregates and means, see the discussion under “Derived Measures.”)

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

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

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

VEHICLES AVAILABLE

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

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

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

Comparability—Data on automobiles available were collected from 1960 to 1980. In 1980, a separate question also was asked on the number of trucks and vans. The data on automobiles and trucks and vans were presented

separately and also as a combined vehicles available tabulation. The 1990 data are comparable to the 1980 vehicles available tabulations.

YEAR HOUSEHOLDER MOVED INTO UNIT

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

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

YEAR STRUCTURE BUILT

The data on year structure built were obtained from questionnaire item H17, which was asked at both occupied and vacant housing units. This item was asked on a sample basis. Data on year structure built refer to when the building was first constructed, not when it was remodeled, added to, or converted. For housing units under construction that met the housing unit definition—that is, all exterior windows, doors, and final usable floors were in place—the category “1989 or March 1990” was used. For a houseboat or a mobile home or trailer, the manufacturer’s model year was assumed to be the year built. The figures shown in census data products relate to the number of units built during the specified periods that were still in existence at the time of enumeration.

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

Limitation of the Data—Data on year structure built are more susceptible to errors of response and nonreporting than data on many other items because respondents must rely on their memory or on estimates by persons who have

lived in the neighborhood a long time. Available evidence indicates there is underreporting in the older-year-structure-built categories, especially “Built in 1939 or earlier.” The introduction of the “Don’t know” category (see the discussion on “Comparability”) may have resulted in relatively higher allocation rates. Data users should refer to the discussion in Appendix C, Accuracy of the Data, and to the allocation tables.

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

DERIVED MEASURES

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

Interpolation

Interpolation frequently is used in calculating medians or quartiles based on interval data and in approximating standard errors from tables. Linear interpolation is used to estimate values of a function between two known values. “Pareto interpolation” is an alternative to linear interpolation. It is used by the Census Bureau in calculating median income within intervals wider than \$2,500. In Pareto interpolation, the median is derived by interpolating between the logarithms of the upper and lower income limits of the median category.

Mean

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

Median

This measure represents the middle value in a distribution. The median divides the total frequency into two equal parts: one-half of the cases fall below the median and one-half of the cases exceed the median. The median is

computed on the basis of the distribution as tabulated, which is sometimes more detailed than the distribution shown in specific census publications and other data products.

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

Percentages, Rates, and Ratios

These measures are frequently presented in census products to compare two numbers or two sets of measurements. These comparisons are made in two ways: (1)

subtraction, which provides an absolute measure of the difference between two items, and (2) the quotient of two numbers, which provides a relative measure of difference.

Quartile

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

APPENDIX C.

Accuracy of the Data

CONTENTS

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INTRODUCTION

The data contained in this data product are based on the 1990 census 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 persons and housing units to be included in the sample. Nonsampling error affects both sample and 100-percent data, and is introduced as a result of errors that may occur during the collection and processing phases of the census. Provided below is a detailed discussion of both types of errors and a description of the estimation procedures.

SAMPLE DESIGN

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

The sample designation method depended on the data collection procedures. Approximately 95 percent of the population was enumerated by the mailback procedure. In these areas, the Bureau of the Census either purchased a commercial mailing list, which was updated by the United States Postal Service and Census Bureau field staff, or prepared a mailing list by canvassing and listing each address in the area prior to Census Day. These lists were computerized and the appropriate units were electronically designated as sample units. The questionnaires were either mailed or hand-delivered to the addresses with instructions to complete and mail back the form.

Housing units in governmental units with a precensus (1988) estimated population of fewer than 2,500 persons were sampled at 1-in-2. Governmental units were defined for sampling purposes as all incorporated places, all counties, all county equivalents such as parishes in Louisiana, and all minor civil divisions in Connecticut, Maine, Massachusetts, Michigan, Minnesota, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont, and Wisconsin. Housing units in census tracts and block numbering areas (BNA's) with a precensus housing unit count below 2,000 housing units were sampled at 1-in-6 for those portions not in small governmental units (governmental units with a population less than 2,500). Housing units within census tracts and BNA's with 2,000 or more housing units were sampled at 1-in-8 for those portions not in small governmental units.

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

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

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

CONFIDENTIALITY OF THE DATA

To maintain the confidentiality required by law (Title 13, United States Code), the Bureau of the Census applies a confidentiality edit to the 1990 census data to assure that

published data do not disclose information about specific individuals, households, or housing units. As a result, a small amount of uncertainty is introduced into the estimates of census characteristics. The sample itself provides adequate protection for most areas for which sample data are published since the resulting data are estimates of the actual counts; however, small areas require more protection. The edit is controlled so that the basic structure of the data is preserved.

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

ERRORS IN THE DATA

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

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

Nonsampling error may affect the data in two ways. Errors that are introduced randomly will increase the variability of the data and should therefore be reflected in the standard error. Errors that tend to be consistent in one

direction will make both sample and 100-percent data biased in that direction. For example, if respondents consistently tend to under-report their income, then the resulting counts of households or families by income category will tend to be understated for the higher income categories and overstated for the lower income categories. Such biases are not reflected in the standard error.

Calculation of Standard Errors

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

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

1. Obtain the standard error from table A or B (or use the formula given below the table) for the estimated total or percentage, respectively.
2. Find the geographic area to which the estimate applies in the appropriate percent-in-sample table or appropriate matrix, and obtain the person or housing unit "percent-in-sample" figure for this area. Use the person "percent-in-sample" figure for person and family characteristics. Use the housing unit "percent-in-sample" figure for housing unit characteristics.
3. Use table C to obtain the design factor for the characteristic (for example, employment status, school enrollment) and the range that contains the percent-in-sample with which you are working. Multiply the basic standard error by this factor.

The unadjusted standard errors of zero estimates or of very small estimated totals or percentages will approach zero. This is also the case for very large percentages or

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

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

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

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

$$SE_{\hat{X}} \text{ and } SE_{\hat{Y}} \text{ of estimates } \hat{X} \text{ and } \hat{Y}$$

$$SE_{\hat{X} \pm \hat{Y}} = SE_{\hat{X} \pm \hat{Y}} = \sqrt{SE_{\hat{X}}^2 + SE_{\hat{Y}}^2}$$

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 1990 census sample must be obtained from an appropriate source outside of this appendix.

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

Ratios—Frequently, the statistic of interest is the ratio of two variables, where the numerator is not a subset of the

denominator. For example, the ratio of teachers to students in public elementary schools. The standard error of the ratio between two sample estimates is estimated as follows:

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

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

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

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

Confidence Intervals

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

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

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

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

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

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

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

Use of Tables to Compute Standard Errors

The following is a hypothetical example of how to compute a standard error of a total and a percentage. Suppose a particular data table shows that for City A 9,948 persons out of all 15,888 persons age 16 years and over were in the civilian labor force. The percent-in-sample

table lists City A with a percent-in-sample of 16.0 percent (Persons column). The column in table C which includes 16.0 percent-in-sample shows the design factor to be 1.1 for "Employment status."

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

$$SE_{9,948} = \sqrt{\frac{9,948 \times 16.0}{21,220}} \\ = 163 \text{ persons.}$$

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

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

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

In the previous example, the standard error of the 9,948 persons 16 years and over in City A who were in the civilian labor force was found to be 179. Thus, a 90 percent confidence interval for this estimated total is found to be:

$$9,948 \pm 1.645 \times 179 \text{ to } 9,948 \pm 1.645 \times 179 \\ \text{or} \\ 9,654 \text{ to } 10,242$$

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.

The following is an illustration of the calculation of standard errors and confidence intervals when a difference between two sample estimates is obtained. For example, suppose the number of persons in City B age 16 years and over who were in the civilian labor force was 9,314 and the total number of persons 16 years and over was 16,666. Further suppose the population of City B was 25,225. Thus, the estimated percentage of persons 16 years and over who were in the civilian labor force is 55.9 percent. The unadjusted standard error determined using the formula provided at the bottom of table B is 0.86

percentage points. We find that City B had a percent-in-sample of 15.7. The range which includes 15.7 percent-in-sample in table C shows the design factor to be 1.1 for "Employment Status." Thus, the approximate standard error of the percentage (55.9 percent) is $0.86 \times 1.1 = 0.95$ percentage points.

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

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

Using the results of the previous example:

$$SE_{\$6.7} = \sqrt{SE_{\$62.6}^2 + SE_{\$55.9}^2} = \sqrt{0.94^2 + 0.95^2}$$

$$= 1.34 \text{ percentage points}$$

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

$$\$6.70 \pm 1.645(1.34) \text{ to } \$6.70 \pm 1.645(1.34)$$

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.

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

$$9948 / 9314 = 1.07$$

$$SE_{\$1.07} = \$ \frac{9948}{9314} \left[\$ \frac{179^2}{9948^2} + \$ \frac{188^2}{9314^2} \right]$$

$$= .029$$

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

$$\$1.07 \pm 1.645(.029) \text{ to } \$1.07 \pm 1.645(.029)$$

or

$$1.02 \text{ to } 1.12$$

ESTIMATION PROCEDURE

The estimates which appear in this publication were obtained from an iterative ratio estimation procedure (iterative proportional fitting) resulting in the assignment of a weight to each sample person or housing unit record. For

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

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

PERSONS

STAGE I: TYPE OF HOUSEHOLD

Group	Persons in Housing Units With a Family With Own Children Under 18
1	2 persons in housing unit
2	3 persons in housing unit
3	4 persons in housing unit
4	5 to 7 persons in housing unit
5	8 or more persons in housing unit
	Persons in Housing Units With a Family Without Own Children Under 18
6-10	2 through 8 or more persons in housing unit
	Persons in All Other Housing Units
11	1 person in housing unit
12-16	2 through 8 or more persons in housing unit
	Persons in Group Quarters
17	Persons in Group Quarters

STAGE II: SAMPLING RATES

1	Sampling rate of 1-in-2
2	Sampling rate less than 1-in-2

STAGE III: HOUSEHOLDER/ NONHOUSEHOLDER

- 1 Householder
- 2 Nonhouseholder

STAGE IV: AGE/ SEX/ RACE/ HISPANIC ORIGIN

Group	White
	Persons of Hispanic Origin
	Male
1	0 to 4 years
2	5 to 14 years
3	15 to 19 years
4	20 to 24 years
5	25 to 34 years
6	35 to 54 years
7	55 to 64 years
8	65 to 74 years
9	75 years and over
	Female
10-18	Same age categories as groups 1 through 9.
	Persons Not of Hispanic Origin
19-36	Same sex and age categories as groups 1 through 18.
	Black
37-72	Same age/ sex/ Hispanic origin categories as groups 1 through 36.
	Asian or Pacific Islander
73-108	Same age/ sex/ Hispanic origin categories as groups 1 through 36.
	American Indian, Eskimo, or Aleut
109-144	Same age/ sex/ Hispanic origin categories as groups 1 through 36.
	Other Race (includes those races not listed above)
145-180	Same age/ sex/ Hispanic origin categories as groups 1 through 36.

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

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

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

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

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

OCCUPIED HOUSING UNITS

STAGE I: TYPE OF HOUSEHOLD

Group	Housing Units With a Family With Own Children Under 18
1	2 persons in housing unit
2	3 persons in housing unit
3	4 persons in housing unit
4	5 to 7 persons in housing unit
5	8 or more persons in housing unit
	Housing Units With a Family Without Own Children Under 18
6-10	2 through 8 or more persons in housing unit

STAGE I: TYPE OF HOUSEHOLD—Con.

Renter

All Other Housing Units
 11 1 person in housing unit
 12-16 2 through 8 or more persons in housing unit

White Householder
 Householder of Hispanic origin
 Rent

101 Less than \$100
 102 \$100 to \$199
 103 \$200 to \$299
 104 \$300 to \$399
 105 \$400 to \$499
 106 \$500 to \$599
 107 \$600 to \$749
 108 \$750 to \$999
 109 \$1,000 or more
 110 No cash rent

STAGE II: SAMPLING RATE CATEGORY

1 Sampling rate of 1-in-2
 2 Sampling rate less than 1-in-2

STAGE III: UNITS IN STRUCTURE

1 Single unit structure
 2 Multi-unit structure consisting of fewer than 10 individual units
 3 Multi-unit structure consisting of 10 or more individual units

Householder Not of Hispanic Origin
 Same rent categories as groups 101 through 110

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

Group Owner
 White Householder
 Householder of Hispanic Origin
 Value
 1 Less than \$20,000
 2 \$20,000 to \$39,999
 3 \$40,000 to \$59,999
 4 \$60,000 to \$79,999
 5 \$80,000 to \$99,999
 6 \$100,000 to \$149,999
 7 \$150,000 to \$249,999
 8 \$250,000 to \$299,999
 9 \$300,000 or more
 10 Other¹
 Householder Not of Hispanic Origin
 11-20 Same value categories as groups 1 through 10
 Black Householder
 21-40 Same Hispanic origin/ value categories as groups 1 through 20
 Asian or Pacific Islander Householder
 41-60 Same Hispanic origin/ value categories as groups 1 through 20
 American Indian, Eskimo, or Aleut Householder
 61-80 Same Hispanic origin/ value categories as groups 1 through 20
 Householder of Other Race
 81-100 Same Hispanic origin/ value categories as groups 1 through 20

121-140 Black Householder
 Same Hispanic origin/ rent categories as groups 101 through 120
 Asian or Pacific Islander Householder
 141-160 Same Hispanic origin/ rent categories as groups 101 through 120
 American Indian, Eskimo, or Aleut Householder
 161-180 Same Hispanic origin/ rent categories as groups 101 through 120
 Householder of Other Race
 181-200 Same Hispanic origin/ rent categories as groups 101 through 120
 Vacant Housing Units
 1 Vacant for rent
 2 Vacant for sale
 3 Other vacant

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

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

Control of Nonsampling Error

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

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

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

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

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

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

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

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

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

Nonresponse—Nonresponse to particular questions on the census questionnaire allows for the introduction of bias into the data, since the characteristics of the nonrespondents have not been observed and may differ from those reported by respondents. As a result, any imputation procedure using respondent data may not completely

reflect this difference either at the elemental level (individual person or housing unit) or on the average. Some protection against the introduction of large biases is afforded by minimizing nonresponse. In the census, nonresponse was reduced substantially during the field operations by the various edit and followup operations aimed at obtaining a response for every question. Characteristics for the nonresponses remaining after this operation were imputed by the computer by using reported data for a person or housing unit with similar characteristics.

EDITING OF UNACCEPTABLE DATA

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

Subsequent to field operations, remaining incomplete or inconsistent information on the questionnaires was assigned

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

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

Table A. Unadjusted Standard Error for Estimated Totals

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

Estimated Total 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	16	16	16	16	16	16	16	16	16	16	16	16	16	16
100	20	21	22	22	22	22	22	22	22	22	22	22	22	22
250	25	30	35	35	35	35	35	35	35	35	35	35	35	35
500	-	35	45	45	50	50	50	50	50	50	50	50	50	50
1,000	-	-	55	65	65	70	70	70	70	70	70	70	70	70
2,500	-	-	-	80	95	110	110	110	110	110	110	110	110	110
5,000	-	-	-	-	110	140	150	150	160	160	160	160	160	160
10,000	-	-	-	-	-	170	200	210	220	220	220	220	220	220
15,000	-	-	-	-	-	-	170	230	250	270	270	270	270	270
25,000	-	-	-	-	-	-	-	250	310	340	350	350	350	350
75,000	-	-	-	-	-	-	-	-	310	510	570	590	610	610
100,000	-	-	-	-	-	-	-	-	-	550	630	670	700	710
250,000	-	-	-	-	-	-	-	-	-	-	790	970	1 090	1 100
500,000	-	-	-	-	-	-	-	-	-	-	-	1 120	1 500	1 540
1,000,000	-	-	-	-	-	-	-	-	-	-	-	-	2 000	2 190
5,000,000	-	-	-	-	-	-	-	-	-	-	-	-	-	3 540
10,000,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-
														5 480

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

$$SE_{\hat{Y}} = \frac{\hat{Y}}{N}$$

N = Size of area

\hat{Y} = Estimate of characteristic total

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

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

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

Estimated Percentage	Base of 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	0.1	0.1
5 or 95	2.2	1.8	1.5	1.3	1.0	0.7	0.6	0.5	0.3	0.2	0.2	0.1	0.1	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	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	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	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	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	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	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	0.2

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

$$SE_{\hat{p}} = \frac{5}{B} \sqrt{\hat{p}}$$

B = Base of estimated percentage

\hat{p} = Estimated percentage

Table C. Standard Error Design Factors—Hawaii

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age.....	1.2	1.0	0.6	0.5
Sex.....	1.2	1.0	0.6	0.5
Race.....	1.2	1.0	0.6	0.5
Hispanic origin (of any race).....	1.2	1.0	0.6	0.5
Marital status.....	1.1	1.0	0.6	0.5
Household type and relationship.....	1.3	1.1	0.6	0.5
Children ever born.....	2.7	2.5	1.3	1.1
Work disability and mobility limitation status.....	1.2	1.1	0.6	0.5
Ancestry.....	2.5	2.3	1.3	1.1
Place of birth.....	2.0	2.0	1.0	0.8
Citizenship.....	1.7	1.5	0.9	0.7
Residence in 1985.....	2.1	2.0	1.0	0.9
Year of entry.....	1.5	1.3	0.8	0.6
Language spoken at home and ability to speak English.....	1.6	1.4	0.8	0.7
Educational attainment.....	1.3	1.2	0.7	0.6
School enrollment.....	1.8	1.6	0.9	0.8
Type of residence (urban/rural).....	2.4	2.4	1.2	1.0
Household type.....	1.3	1.1	0.6	0.5
Family type.....	1.2	1.1	0.6	0.5
Group quarters.....	0.9	0.9	0.5	0.4
Subfamily type and presence of children.....	1.2	1.1	0.6	0.5
Employment status.....	1.3	1.1	0.6	0.5
Industry.....	1.3	1.1	0.7	0.5
Occupation.....	1.2	1.1	0.6	0.5
Class of worker.....	1.5	1.3	0.8	0.6
Hours per week and weeks worked in 1989.....	1.2	1.1	0.6	0.5
Number of workers in family.....	1.3	1.1	0.6	0.5
Place of work.....	1.6	1.4	0.8	0.7
Means of transportation to work.....	1.4	1.3	0.7	0.6
Travel time to work.....	1.3	1.2	0.7	0.6
Private vehicle occupancy.....	1.4	1.3	0.7	0.6
Time leaving home to go to work.....	1.3	1.2	0.7	0.5
Type of income in 1989.....	1.4	1.2	0.7	0.6
Household income in 1989.....	1.2	1.1	0.6	0.5
Family income in 1989.....	1.2	1.1	0.6	0.5
Poverty status in 1989 (persons).....	1.6	1.4	0.8	0.7
Poverty status in 1989 (families).....	1.2	1.0	0.6	0.5
Armed Forces and veteran status.....	1.5	1.3	0.8	0.6
HOUSING				
Age of householder.....	1.2	1.0	0.6	0.5
Race of householder.....	1.2	1.0	0.6	0.5
Hispanic origin of householder.....	1.2	1.0	0.6	0.5
Type of residence (urban/rural).....	1.1	1.1	0.5	0.4
Condominium status.....	1.2	1.1	0.6	0.5
Units in structure.....	1.2	1.1	0.6	0.5
Tenure.....	1.2	1.0	0.6	0.5
Occupancy status.....	1.2	1.0	0.6	0.5
Value.....	1.2	1.1	0.6	0.5
Gross rent.....	1.2	1.1	0.6	0.5
Household income in 1989.....	1.2	1.1	0.6	0.5
Year structure built.....	1.2	1.1	0.6	0.5
Rooms, bedrooms.....	1.2	1.1	0.6	0.5
Kitchen facilities.....	1.3	1.3	0.6	0.5
Source of water, plumbing facilities.....	1.3	1.2	0.6	0.5
Sewage disposal.....	1.2	1.1	0.6	0.5
House heating fuel.....	1.3	1.1	0.6	0.5
Telephone in housing unit.....	1.3	1.1	0.6	0.5
Vehicles available.....	1.2	1.1	0.6	0.5
Year householder moved into structure.....	1.2	1.1	0.6	0.5
Mortgage status and monthly mortgage costs.....	1.2	1.1	0.6	0.5
Mortgage status and selected monthly owner costs.....	1.2	1.0	0.6	0.5
Gross rent as a percentage of household income in 1989.....	1.2	1.1	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income.....	1.2	1.1	0.6	0.5

APPENDIX D.

Collection and Processing Procedures

CONTENTS

Data Collection Procedures	D-2
Enumeration and Residence Rules	D-1
Processing Procedures	D-4

ENUMERATION AND RESIDENCE RULES

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

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

Enumeration Rules

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

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

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

Residence Rules

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

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

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

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

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

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

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

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

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

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

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

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

DATA COLLECTION PROCEDURES

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

Enumeration of Housing Units

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

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

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

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

The update/ leave/ mail-back method was used mainly in densely populated rural areas where it was difficult to develop mailing lists because mailing addresses did *not* use house number and street name. The Census Bureau compiled lists of housing units in advance of the census. Enumerators delivered the questionnaires, asked respondents to return them by mail, and added housing units not on the mailing lists. This method was used mainly in the South and Midwest, and also included some high-rise, low-income urban areas. A variation of this method was used in urban areas having large numbers of boarded-up buildings. About 11 million housing units were enumerated using this method.

The list/ enumerate method (formerly called conventional or door-to-door enumeration) was used mainly in very remote and sparsely-settled areas. The United States

Postal Service delivered unaddressed short-form questionnaires before Census Day. Starting a week before Census Day, enumerators canvassed these areas, checked that all housing units received a questionnaire, created a list of all housing units, completed long-form questionnaires, and picked up the completed short-form questionnaires. This method was used mainly in the West and Northeast to enumerate an estimated 6.5 million housing units.

Followup

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

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

Special Enumeration Procedures

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

Shelter and Street Night (S-Night)

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

1. Emergency shelters for the homeless population (public and private; permanent and temporary).
2. Shelters with temporary lodging for runaway youths.
3. Shelters for abused women and their children.

4. Open locations in streets or other places not intended for habitation.

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

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

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

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

1. All shelters with sleeping facilities (permanent and temporary, such as church basements, armories, public buildings, and so forth, that could be open on March 20).
2. Hotels and motels used to house homeless persons and families.
3. A list of outdoor locations where homeless persons tend to be at night.
4. Places such as bus or train stations, subway stations, airports, hospital emergency rooms, and so forth, where homeless persons seek shelter at night.

5. The specific addresses of abandoned or boarded-up buildings where homeless persons were thought to stay at night.

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

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

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

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

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

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

The "street" count was restricted to persons who were visible when the enumerator came to the open, public locations that had been identified by local jurisdictions. Homeless persons who were well hidden, moving about, or in locations other than those identified by the local governments were likely missed. The number missed will never be known and there is no basis to make an estimate

of the number missed from census data. The count of persons in open, public places was affected by many factors, including the extra efforts made to encourage people to go to shelters for "Shelter and Street Night," the weather (which was unusually cold in many parts of the country), the presence of the media, and distrust of the census. Expectations of the number of homeless persons on the street cannot be based on the number seen during the day because the night-time situation is normally very different as more homeless persons are in shelters or very well hidden.

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

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

The Casual Count operation was conducted in May 1980 at additional nonshelter locations, such as street corners, pool halls, welfare and employment offices. This operation lasted for approximately 2 weeks. Casual Count was conducted during the day only in selected large central cities. Only persons who appeared to be at least 15 years of age were asked if they had been previously enumerated. Casual Count was actually a coverage-improvement operation. It was not specifically an operation to count homeless persons living in the streets. Persons were excluded if they said they had a usual home outside the city because it was not cost effective to check through individual questionnaires in another city to try to find the person.

PROCESSING PROCEDURES

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

In the processing offices, the household questionnaires were microfilmed and processed by the Film Optical Sensing Device for Input to Computers (FOSDIC). For most items on the questionnaire, the information supplied

by the respondent was indicated by filling circles in pre-designated positions. FOSDIC electronically "read" these filled circles from the microfilm copy of the questionnaire and transferred the information to computer tape. The computer tape did not include individual names, addresses, or handwritten responses.

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

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

APPENDIX E. Facsimiles of Respondent Instructions and Questionnaire Pages

Your Guide for the 1990 U.S. Census Form

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

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Instructions for the census questions	3 – 11
What the census is about	12
Why the census asks certain questions	12

CENSUS '90



U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS

D-4

How to Fill Out Your Census Form

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

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

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

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

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

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

Example

a. Age		b. Year of birth		a. Age		b. Year of birth	
<input type="checkbox"/> 0	<input type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 9	<input type="checkbox"/> 0	<input type="checkbox"/> 9	<input type="checkbox"/> 1	<input type="checkbox"/> 9
<input type="checkbox"/> 2	<input type="checkbox"/> 0	<input checked="" type="checkbox"/> 1	<input type="checkbox"/> 4	<input type="checkbox"/> 1	<input type="checkbox"/> 0	<input type="checkbox"/> 9	<input type="checkbox"/> 8
<input type="checkbox"/> 3	<input type="checkbox"/> 0	<input type="checkbox"/> 2	<input type="checkbox"/> 9	<input type="checkbox"/> 2	<input type="checkbox"/> 0	<input type="checkbox"/> 8	<input type="checkbox"/> 1
<input type="checkbox"/> 4	<input type="checkbox"/> 0	<input type="checkbox"/> 2	<input type="checkbox"/> 0	<input type="checkbox"/> 3	<input type="checkbox"/> 0	<input type="checkbox"/> 7	<input type="checkbox"/> 0
<input type="checkbox"/> 5	<input type="checkbox"/> 0	<input type="checkbox"/> 3	<input type="checkbox"/> 0	<input type="checkbox"/> 4	<input type="checkbox"/> 0	<input type="checkbox"/> 6	<input type="checkbox"/> 0
<input type="checkbox"/> 6	<input type="checkbox"/> 0	<input type="checkbox"/> 4	<input type="checkbox"/> 0	<input type="checkbox"/> 5	<input type="checkbox"/> 0	<input type="checkbox"/> 5	<input type="checkbox"/> 0
<input type="checkbox"/> 7	<input type="checkbox"/> 0	<input type="checkbox"/> 5	<input type="checkbox"/> 0	<input type="checkbox"/> 6	<input type="checkbox"/> 0	<input type="checkbox"/> 4	<input type="checkbox"/> 0
<input type="checkbox"/> 8	<input type="checkbox"/> 0	<input type="checkbox"/> 6	<input type="checkbox"/> 0	<input type="checkbox"/> 7	<input type="checkbox"/> 0	<input type="checkbox"/> 3	<input type="checkbox"/> 0
<input type="checkbox"/> 9	<input type="checkbox"/> 0	<input type="checkbox"/> 7	<input type="checkbox"/> 0	<input type="checkbox"/> 8	<input type="checkbox"/> 0	<input type="checkbox"/> 2	<input type="checkbox"/> 0
<input type="checkbox"/> 0	<input type="checkbox"/> 0	<input type="checkbox"/> 8	<input type="checkbox"/> 0	<input type="checkbox"/> 9	<input type="checkbox"/> 0	<input type="checkbox"/> 1	<input type="checkbox"/> 0
<input type="checkbox"/> 1	<input type="checkbox"/> 0	<input type="checkbox"/> 9	<input type="checkbox"/> 0	<input type="checkbox"/> 0	<input type="checkbox"/> 0	<input type="checkbox"/> 0	<input type="checkbox"/> 0
<input type="checkbox"/> 2	<input type="checkbox"/> 0	<input type="checkbox"/> 0	<input type="checkbox"/> 0	<input type="checkbox"/> 1	<input type="checkbox"/> 0	<input type="checkbox"/> 0	<input type="checkbox"/> 0
<input type="checkbox"/> 3	<input type="checkbox"/> 0	<input type="checkbox"/> 0	<input type="checkbox"/> 0	<input type="checkbox"/> 2	<input type="checkbox"/> 0	<input type="checkbox"/> 0	<input type="checkbox"/> 0
<input type="checkbox"/> 4	<input type="checkbox"/> 0	<input type="checkbox"/> 0	<input type="checkbox"/> 0	<input type="checkbox"/> 3	<input type="checkbox"/> 0	<input type="checkbox"/> 0	<input type="checkbox"/> 0
<input type="checkbox"/> 5	<input type="checkbox"/> 0	<input type="checkbox"/> 0	<input type="checkbox"/> 0	<input type="checkbox"/> 4	<input type="checkbox"/> 0	<input type="checkbox"/> 0	<input type="checkbox"/> 0
<input type="checkbox"/> 6	<input type="checkbox"/> 0	<input type="checkbox"/> 0	<input type="checkbox"/> 0	<input type="checkbox"/> 5	<input type="checkbox"/> 0	<input type="checkbox"/> 0	<input type="checkbox"/> 0
<input type="checkbox"/> 7	<input type="checkbox"/> 0	<input type="checkbox"/> 0	<input type="checkbox"/> 0	<input type="checkbox"/> 6	<input type="checkbox"/> 0	<input type="checkbox"/> 0	<input type="checkbox"/> 0
<input type="checkbox"/> 8	<input type="checkbox"/> 0	<input type="checkbox"/> 0	<input type="checkbox"/> 0	<input type="checkbox"/> 7	<input type="checkbox"/> 0	<input type="checkbox"/> 0	<input type="checkbox"/> 0
<input type="checkbox"/> 9	<input type="checkbox"/> 0	<input type="checkbox"/> 0	<input type="checkbox"/> 0	<input type="checkbox"/> 8	<input type="checkbox"/> 0	<input type="checkbox"/> 0	<input type="checkbox"/> 0
<input type="checkbox"/> 0	<input type="checkbox"/> 0	<input type="checkbox"/> 0	<input type="checkbox"/> 0	<input type="checkbox"/> 9	<input type="checkbox"/> 0	<input type="checkbox"/> 0	<input type="checkbox"/> 0

Your Answers Are Confidential

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

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

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

Instructions for Questions 1a through 7

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

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

- b.** If everyone listed in question 1a usually lives at another address(es), print the address(es) in 1b.

- 2.** Fill one circle to show how each person is related to the person in column 1.

If **Other relative** of the person in column 1, print the exact relationship such as son-in-law, daughter-in-law, grandparent, nephew, niece, mother-in-law, father-in-law, cousin, and so on.

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

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

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

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

If you fill the **Other race** circle, be sure to print the name of the race.

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

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

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

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

If you fill the **Yes, other Spanish/Hispanic** circle, print one group.

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

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

Instructions for Question H1a through H1b

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

- b.** If you included anyone on your list even though you were not sure that you should list the person(s), answer question H1b as **Yes**. Then enter the name(s) and reason(s) why you listed the person(s) on the lines provided. Otherwise, answer question H1b as **No**.

Instructions for Questions H2 through H7b

H2. Fill only one circle.

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

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

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

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

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

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

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

H5a. Answer H5a and H5b if you live in a one-family house or a mobile home; include only land that you own or rent.

b. A business is easily recognized from the outside; for example, a grocery store or barber shop. A medical office is a doctor's or dentist's office regularly visited by patients.

H6. If this is a house, include the value of the house, the land it is on, and any other structures on the same property. If the house is owned but the land is rented, estimate the combined value of the house and the land. If this is a condominium unit, estimate the value for your house or apartment including your share of the common elements. If this is a mobile home, include the value of the mobile home and the value of the land. If you rent the land, estimate the value of the rented land and add it to the value of the mobile home.

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

If rent is paid:	Multiply rent by:	If rent is paid:	Divide rent by:
By the day	30	4 times a year	3
By the week	4	2 times a year	6
Every other week	2	Once a year	12

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

Instructions for Questions H8 through H19b

H8. The *person listed in column 1* refers to the person listed in the first column on page 2. This person should be the household member (or one of the members) in whose name the house, apartment, or mobile home is owned, being bought, or rented. If there is no such person, any adult household member can be the person in column 1. Mark when this person last moved into this house, apartment, or mobile home.

H9. Include all rooms intended to be used as bedrooms in this house, apartment, or mobile home, even if they are currently being used for other purposes.

H10. Mark **Yes, have all three facilities** if you have all the facilities mentioned; all facilities must be in your house, apartment, or mobile home, but not necessarily in the same room. Consider that you have hot water even if you have it only part of the time. Mark **No** if any of the three facilities is not present.

H11. The kitchen sink, stove, and refrigerator must be located in the building but do not have to be in the same room. Portable cooking equipment is not considered as a range or cookstove.

H12. Answer **Yes** only if the telephone is located in your house, apartment, or mobile home.

H13. Count company cars (including police cars and taxicabs) and company trucks of one-ton capacity or less that are regularly kept at home and used by household members for nonbusiness purposes. Do **not** count cars or trucks permanently out of working order.

H14. Fill the circle for the fuel used most to heat your house, apartment, or mobile home. In buildings containing more than one apartment you may obtain this information from the owner, manager, or janitor.

Solar energy is provided by a system that collects, stores, and distributes heat from the sun. **Other fuel** includes any fuel not separately listed; for example, purchased steam, fuel briquettes, waste material, etc.

H15. If a well provides water for five or more houses, apartments, or mobile homes, mark **A public system**. If a well provides water for four or fewer houses, apartments, or mobile homes, fill one of the circles for **Individual well**.

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

H16. A **public sewer** may be operated by a government body or private organization. A **septic tank** or **cesspool** is an underground tank or pit used for disposal of sewage.

H17. Fill the circle corresponding to the period in which the original construction was completed, *not* the time of any later remodeling, additions, or conversions. In buildings containing more than one apartment, the owner, manager, or janitor may be of help in determining when the building was built.

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

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

H18. A *condominium* is a type of ownership in which the apartments, houses, or mobile homes in a building or development are individually owned, but the common areas, such as lobbies, halls, etc., are jointly owned. Cooperative occupants should mark **No**.

H19a. Answer H19a and H19b if you live in a one-family house or mobile home.

b. *This property* is the acreage on which the house is located; it includes adjoining land you rent for your use. Report sales made in 1989 from this property by you or previous occupants.

Instructions for Questions H20 through H26

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

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

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

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

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

H21. Report taxes for all taxing jurisdictions (city or town, county, state, school district, etc.) even if they are included in your mortgage payment, not yet paid or paid by someone else, or are delinquent. Do not include taxes past due from previous years.

H22. When premiums are paid on other than a yearly basis, convert to a yearly basis. Enter the yearly amount even if no payment was made during the past 12 months.

H23a. The word *mortgage* is used as a general term to indicate all types of loans that are secured by real estate.

b. Enter a monthly amount even if it is unpaid or paid by someone else. If the amount is paid on some other periodic basis, see the instructions for H7a to change it to a monthly amount.

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

H24a. A second or junior mortgage or home equity loan is secured by real estate.

b. Enter a monthly amount even if it is unpaid or paid by someone else. If the amount is paid on some other periodic basis, see instructions for H7a and change it to a monthly amount. Include payments on all second or junior mortgages or home equity loans.

H25. A *condominium fee* is normally assessed by the condominium owners' association for the purpose of improving and maintaining the common areas. Enter a monthly amount even if it is unpaid or paid by someone else. If the amount is paid on some other periodic basis, see the instructions for H7a on how to change it to a monthly amount.

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

Instructions for Question 8

8. For persons born in the United States:

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

For persons born outside the United States:

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

Instructions for Questions 9 through 13

9. A person should fill the **Yes, U.S. citizen by naturalization** circle only if he/she has completed the naturalization process and is now a United States citizen. If the person was born in Puerto Rico, Guam, the U.S. Virgin Islands, or Northern Marianas, he/she should fill the **Yes, born in Puerto Rico, Guam, the U.S. Virgin Islands, or Northern Marianas** circle. If the person was born outside the United States (or at sea) and has at least one American parent, he/she should fill the **Yes, born abroad of American parent or parents** circle.

10. If the person has entered the United States (that is, the 50 states and the District of Columbia) more than once, fill the circle for the latest year he/she came to stay.

11. Do not include enrollment in a trade or business school, company training, or tutoring unless the course would be accepted for credit at a regular elementary school, high school, or college.

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

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

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

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

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

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

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

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

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

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

Instructions for Questions 14a through 19

14a. Mark **Yes** if this person lived in this same house or apartment on April 1, 1985, even if he/she moved away and came back since then. Mark **No** if this person lived in the same building but in a different apartment (or in the same mobile home or trailer but on a different lot or trailer site).

b. If this person lived in a different house or apartment on April 1, 1985, give the location of this person's usual home at that time.

Part (1)

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

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

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

Part (2)

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

Part (3)

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

Part (4)

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

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

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

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

17a. For a person with service in the National Guard or a military reserve unit, fill one of the two **Yes, active duty** circles if and only if the person has ever been called up for active duty other than training; otherwise, mark **Yes, service in Reserves or National Guard only**. For a person whose only service was as a civilian employee or volunteer for the Red Cross, USO, Public Health Service, or War or Defense Department, mark **No**. Count **World War II Merchant Marine Seaman** service as active duty; do **not** count other Merchant Marine service as active duty.

18. Mark **Yes** to part (a) if a health condition substantially limits this person in his or her choice of occupation or if the condition limits the amount of work that can be accomplished in a given period of time. Mark **Yes** to part (b) if the health condition prevents this person from holding any significant employment.

19. Consider a person to have difficulty with these activities if any of the following situations apply: (1) it takes extra time or extra effort for the person to perform one or more of the activities, (2) there are times when the person cannot perform one or more of the activities, or (3) the person is completely unable to perform one or more of the activities.

Instructions for Questions 20 through 23b

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

21a. Count as work — Mark **Yes**:

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

Do not count as work — Mark **No**:

- Housework or yard work at home.
- Unpaid volunteer work.
- School work.
- Work done as a resident of an institution.

22a. Include the street type (for example, St., Road, Ave.) and the street direction (if a direction such as "North" is part of the address). For example, print 1239 N. Main St. or 1239 Main St., N.W. not just 1239 Main.

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

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

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

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

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

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

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

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

e. If the person worked in a foreign country or Puerto Rico, Guam, etc., print the name of the country in 22e and leave the other parts of question 22 blank.

23a. If the person usually used more than one type of transportation to get to work (for example, rode the bus and transferred to the subway), fill the circle of the one method of transportation that he/she used for most of the distance during the trip.

b. If the person was driven to work by someone who then drove back home or to a nonwork destination, fill the circle for **Drove alone**.

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

Instructions for Questions 24a through 30

- 24a.** Give the time of day the person usually *left home to go to work*. DO NOT give the time that the person usually began his or her work.
If the person usually left home to go to work sometime *between 12:00 o'clock midnight and 12:00 o'clock noon*, fill the **a.m.** circle.
If the person usually left home to go to work sometime *between 12:00 o'clock noon and 12:00 o'clock midnight*, fill the **p.m.** circle.
- b.** Travel time is from door to door. Include time taken waiting for public transportation or picking up passengers in a carpool.
- 25.** If the person works only during certain seasons or on a day-by-day basis when work is available, mark **No**.
- 26a.** Mark **Yes** if the person tried to get a job or to start a business or professional practice at any time in the last 4 weeks; for example, registered at an employment office, went to a job interview, placed or answered ads, or did anything toward starting a business or professional practice.
- b.** Mark **No, already has a job** if the person was on layoff or was expecting to report to a job within 30 days.
Mark **No, temporarily ill** if the person expects to be able to work within 30 days.
Mark **No, other reasons** if the person could not have taken a job because he or she was going to school, taking care of children, etc.
- 27.** Look at the instructions for question 21a to see what to count as work. Mark **Never worked** if the person: (1) never worked at any kind of job or business, either full or part time, (2) never did any work, with or without pay, in a family business or farm, and (3) never served in the Armed Forces.
- 28a.** If the person worked for a company, business, or government agency, print the name of the company, not the name of the person's supervisor. If the person worked for an individual or a business that had no company name, print the name of the individual worked for. If the person worked in his/her own business, print "self-employed."
- b.** Print two or more words to tell what the business, industry, or individual employer named in 28a did. If there is more than one activity, describe only the major activity at the place where the person worked. Enter what is made, what is sold, or what service is given.
Some examples of what to enter:
- | | |
|---|-----------------------|
| Enter a description like the following – | Do not enter – |
| Metal furniture manufacturing | Furniture company |
| Retail grocery store | Grocery store |
| Petroleum refining | Oil company |
| Cattle ranch | Ranch |
- 29.** Print two or more words to describe the kind of work the person did. If the person was a trainee, apprentice, or helper, include that in the description.
Some examples of what to enter:
- | | |
|---|-----------------------|
| Enter a description like the following – | Do not enter – |
| Production clerk | Clerk |
| Carpenter's helper | Helper |
| Auto engine mechanic | Mechanic |
| Registered nurse | Nurse |
- 30.** Mark **Employee of a PRIVATE NOT-FOR-PROFIT . . . organization** if the person worked for a cooperative, credit union, mutual insurance company, or similar organization.
Employees of foreign governments, the United Nations, and other international organizations should mark **PRIVATE NOT-FOR-PROFIT . . . organization**.
For persons who worked at a public school, college or university, mark the appropriate *government* category; for example, mark **State GOVERNMENT employee** for a state university, or mark **Local GOVERNMENT employee** for a county-run community college or a city-run public school.

Instructions for Questions 31a through 32h

- 31a.** Look at the instructions for question 21a to see what to count as work.
- b.** Count every week in which the person did any work at all, even for an hour.
- 32.** Fill the **Yes** or **No** circle for each part and enter the amount received during 1989.
If income from any source was received jointly by household members, report, if possible, the appropriate share for each person; otherwise, report the whole amount for only one person and fill the **No** circle for the other person.
- a.** Include wages and salaries from *all jobs before* deductions. Be sure to include any tips, commissions, or bonuses. Owners of *incorporated* businesses should enter their salary here. Military personnel should include base pay plus cash housing and/or subsistence allowance, flight pay, uniform allotments, reenlistment bonuses, etc.
- b.** Include **NONFARM** profit (or loss) from self-employment in sole proprietorships and partnerships. *Exclude* profit (or loss) of incorporated businesses you own.
- c.** Include **FARM** profit (or loss) from self-employment in sole proprietorships and partnerships. *Exclude* profit (or loss) of incorporated farm businesses you own. Also *exclude* amounts from land rented for cash but include amounts from land rented for shares.
- d.** Include interest received or credited to checking and savings accounts, money market funds, certificates of deposit (CDs), IRAs, KEOGHs, and government bonds.
Include dividends received, credited, or reinvested from ownership of stocks or mutual funds.
Include profit (or loss) from royalties and the rental of land, buildings or real estate, or from roomers or boarders. Income received by self-employed persons whose *primary* source of income is from renting property or from royalties should be included in questions 32b or 32c above. Include regular payments from an estate or trust fund.
- e.** Include Social Security (and/or Railroad Retirement) payments to retired persons, to dependents of deceased insured workers, and to disabled workers *before* Medicare deductions.
- f.** Include Supplemental Security Income received by aged, blind, or disabled persons, Aid to Families with Dependent Children, or income from other government programs such as general or emergency assistance. Do not include assistance received from private charities. *Exclude* assistance to pay for heating (cooling) costs.
- g.** Include retirement, disability, or survivor benefits received from companies and unions; Federal, State, and local governments, and the U.S. military. Include regular income from annuities and IRA or KEOGH retirement plans.
- h.** Include Veterans' (VA) disability compensation and educational assistance payments (VEAP), unemployment compensation, child support or alimony, and all other regular payments such as Armed Forces transfer payments; assistance from private charities; regular contributions from persons not living in the household, etc.
Do not include the following as income in any item:
- Refunds or rebates of any kind
 - Withdrawals from savings of any kind
 - Capital gains or losses from the sale of homes, shares of stock, etc.
 - Inheritances or insurance settlements
 - Any type of loan
 - Pay in-kind such as food, free rent, etc.

What the Census Is About — Some Questions and Answers

Why are we taking a census?

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

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

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

How long have we been taking the census?

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

How are you being counted?

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

Why the Census Asks Certain Questions

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

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

Name?

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

Value or rent?

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

Complete plumbing?

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

Place of birth?

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

Job?

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

Income?

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

CENSUS '90

OFFICIAL 1990 U.S. CENSUS FORM



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

The law requires answers but guarantees privacy.

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

How to get started--and get help.

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

Please answer and return your form promptly.

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

Again, thank you for answering the 1990 Census.

Remember: Return the completed form by April 1, 1990.

Para personas de habla hispana --

(For Spanish-speaking persons)

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

U.S. Department of Commerce
BUREAU OF THE CENSUS

FORM D-2

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

Page 1

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

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

Include

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

Do NOT include

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

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

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

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

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

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

Please fill one column → for each person listed in Question 1a on page 1.	PERSON 1		PERSON 2	
	Last name		Last name	
	First name	Middle initial	First name	Middle initial
2. How is this person related to PERSON 1? Fill ONE circle for each person. If Other relative of person in column 1, fill circle and print exact relationship, such as mother-in-law, grandparent, son-in-law, niece, cousin, and so on.	START in this column with the household member (or one of the members) in whose name the home is owned, being bought, or rented. If there is no such person, start in this column with any adult household member.		If a RELATIVE of Person 1: <input type="radio"/> Husband/wife <input type="radio"/> Brother/sister <input type="radio"/> Natural-born or adopted son/daughter <input type="radio"/> Father/mother <input type="radio"/> Stepson/stepdaughter <input type="radio"/> Grandchild <input type="radio"/> <input type="checkbox"/> Other relative →	
3. Sex Fill ONE circle for each person.	<input type="radio"/> Male <input type="radio"/> Female		<input type="radio"/> Male <input type="radio"/> Female	
4. Race Fill ONE circle for the race that the person considers himself/herself to be. If Indian (Amer.) , print the name of the enrolled or principal tribe. → If Other Asian or Pacific Islander (API) , print one group, for example: Hmong, Fijian, Laotian, Thai, Tongan, Pakistani, Cambodian, and so on. → If Other race , print race. →	<input type="radio"/> White <input type="radio"/> Black or Negro <input type="radio"/> Indian (Amer.) (Print the name of the enrolled or principal tribe.) → <input type="radio"/> Eskimo <input type="radio"/> Aleut <u>Asian or Pacific Islander (API)</u> <input type="radio"/> Chinese <input type="radio"/> Japanese <input type="radio"/> Filipino <input type="radio"/> Asian Indian <input type="radio"/> Hawaiian <input type="radio"/> Samoan <input type="radio"/> Korean <input type="radio"/> Guamanian <input type="radio"/> Vietnamese <input type="radio"/> Other API → <input type="radio"/> Other race (Print race) →		<input type="radio"/> White <input type="radio"/> Black or Negro <input type="radio"/> Indian (Amer.) (Print the name of the enrolled or principal tribe.) → <input type="radio"/> Eskimo <input type="radio"/> Aleut <u>Asian or Pacific Islander (API)</u> <input type="radio"/> Chinese <input type="radio"/> Japanese <input type="radio"/> Filipino <input type="radio"/> Asian Indian <input type="radio"/> Hawaiian <input type="radio"/> Samoan <input type="radio"/> Korean <input type="radio"/> Guamanian <input type="radio"/> Vietnamese <input type="radio"/> Other API → <input type="radio"/> Other race (Print race) →	
5. Age and year of birth a. Print each person's age at last birthday. Fill in the matching circle below each box. b. Print each person's year of birth and fill the matching circle below each box.	a. Age 0 ○ 0 ○ 0 ○ 1 ○ 1 ○ 1 ○ 2 ○ 2 ○ 3 ○ 3 ○ 4 ○ 4 ○ 5 ○ 5 ○ 6 ○ 6 ○ 7 ○ 7 ○ 8 ○ 8 ○ 9 ○ 9 ○	b. Year of birth 1 ● 8 ○ 0 ○ 0 ○ 9 ○ 1 ○ 1 ○ 2 ○ 2 ○ 3 ○ 3 ○ 4 ○ 4 ○ 5 ○ 5 ○ 6 ○ 6 ○ 7 ○ 7 ○ 8 ○ 8 ○ 9 ○ 9 ○	a. Age 0 ○ 0 ○ 0 ○ 1 ○ 1 ○ 1 ○ 2 ○ 2 ○ 3 ○ 3 ○ 4 ○ 4 ○ 5 ○ 5 ○ 6 ○ 6 ○ 7 ○ 7 ○ 8 ○ 8 ○ 9 ○ 9 ○	b. Year of birth 1 ● 8 ○ 0 ○ 0 ○ 9 ○ 1 ○ 1 ○ 2 ○ 2 ○ 3 ○ 3 ○ 4 ○ 4 ○ 5 ○ 5 ○ 6 ○ 6 ○ 7 ○ 7 ○ 8 ○ 8 ○ 9 ○ 9 ○
6. Marital status Fill ONE circle for each person.	<input type="radio"/> Now married <input type="radio"/> Separated <input type="radio"/> Widowed <input type="radio"/> Never married <input type="radio"/> Divorced		<input type="radio"/> Now married <input type="radio"/> Separated <input type="radio"/> Widowed <input type="radio"/> Never married <input type="radio"/> Divorced	
7. Is this person of Spanish/Hispanic origin? Fill ONE circle for each person. If Yes, other Spanish/Hispanic , print one group. →	<input type="radio"/> No (not Spanish/Hispanic) <input type="radio"/> Yes, Mexican, Mexican-Am., Chicano <input type="radio"/> Yes, Puerto Rican <input type="radio"/> Yes, Cuban <input type="radio"/> Yes, other Spanish/Hispanic (Print one group, for example: Argentinean, Colombian, Dominican, Nicaraguan, Salvadoran, Spaniard, and so on.) →		<input type="radio"/> No (not Spanish/Hispanic) <input type="radio"/> Yes, Mexican, Mexican-Am., Chicano <input type="radio"/> Yes, Puerto Rican <input type="radio"/> Yes, Cuban <input type="radio"/> Yes, other Spanish/Hispanic (Print one group, for example: Argentinean, Colombian, Dominican, Nicaraguan, Salvadoran, Spaniard, and so on.) →	
FOR CENSUS USE →	<input type="checkbox"/>		<input type="checkbox"/>	

PERSON 7	
Last name	
First name	Middle initial
If a RELATIVE of Person 1:	
<input type="radio"/> Husband/wife	<input type="radio"/> Brother/sister
<input type="radio"/> Natural-born or adopted son/daughter	<input type="radio"/> Father/mother
<input type="radio"/> Grandchild	<input type="radio"/> Other relative
<input type="radio"/> Stepson/stepdaughter	
If NOT RELATED to Person 1:	
<input type="radio"/> Roomer, boarder, or foster child	<input type="radio"/> Unmarried partner
<input type="radio"/> Housemate, roommate	<input type="radio"/> Other nonrelative
<input type="radio"/> Male	<input type="radio"/> Female
<input type="radio"/> White <input type="radio"/> Black or Negro <input type="radio"/> Indian (Amer.) (Print the name of the enrolled or principal tribe.)	
<input type="radio"/> Eskimo <input type="radio"/> Aleut <input type="radio"/> Asian or Pacific Islander (API)	
<input type="radio"/> Chinese <input type="radio"/> Filipino <input type="radio"/> Hawaiian <input type="radio"/> Korean <input type="radio"/> Vietnamese <input type="radio"/> Other race (Print race.)	
<input type="radio"/> Japanese <input type="radio"/> Asian Indian <input type="radio"/> Samoan <input type="radio"/> Guamanian <input type="radio"/> Other API	
a. Age	b. Year of birth
0 1 2 3 4 5 6 7 8 9	1 8 9 0 1 2 3 4 5 6 7 8 9
<input type="radio"/> Now married	<input type="radio"/> Separated
<input type="radio"/> Widowed	<input type="radio"/> Never married
<input type="radio"/> Divorced	
<input type="radio"/> No (not Spanish/Hispanic) <input type="radio"/> Yes, Mexican, Mexican-Am., Chicano <input type="radio"/> Yes, Puerto Rican <input type="radio"/> Yes, Cuban <input type="radio"/> Yes, other Spanish/Hispanic (Print one group, for example: Argentinian, Colombian, Dominican, Nicaraguan, Salvadoran, Spaniard, and so on.)	

NOW PLEASE ANSWER QUESTIONS H1a-H26 FOR THIS HOUSEHOLD

H1a. Did you leave anyone out of your list of persons for Question 1a on page 1 because you were not sure if the person should be listed — for example, someone temporarily away on a business trip or vacation, a newborn baby still in the hospital, or a person who stays here once in a while and has no other home?

Yes, please print the name(s) and reason(s).
 No

b. Did you include anyone in your list of persons for Question 1a on page 1 even though you were not sure that the person should be listed — for example, a visitor who is staying here temporarily or a person who usually lives somewhere else?

Yes, please print the name(s) and reason(s).
 No

H2. Which best describes this building? Include all apartments, flats, etc., even if vacant.

A mobile home or trailer
 A one-family house detached from any other house
 A one-family house attached to one or more houses
 A building with 2 apartments
 A building with 3 or 4 apartments
 A building with 5 to 9 apartments
 A building with 10 to 19 apartments
 A building with 20 to 49 apartments
 A building with 50 or more apartments
 Other

H3. How many rooms do you have in this house or apartment? Do NOT count bathrooms, porches, balconies, foyers, halls, or half-rooms.

1 room
 2 rooms
 3 rooms
 4 rooms
 5 rooms
 6 rooms
 7 rooms
 8 rooms
 9 or more rooms

H4. Is this house or apartment —

Owned by you or someone in this household with a mortgage or loan?
 Owned by you or someone in this household free and clear (without a mortgage)?
 Rented for cash rent?
 Occupied without payment of cash rent?

If this is a ONE-FAMILY HOUSE —

H5a. Is this house on ten or more acres?

Yes No

b. Is there a business (such as a store or barber shop) or a medical office on this property?

Yes No

Answer only if you or someone in this household OWNS OR IS BUYING this house or apartment —

H6. What is the value of this property; that is, how much do you think this house and lot or condominium unit would sell for if it were for sale?

Less than \$10,000
 \$10,000 to \$14,999
 \$15,000 to \$19,999
 \$20,000 to \$24,999
 \$25,000 to \$29,999
 \$30,000 to \$34,999
 \$35,000 to \$39,999
 \$40,000 to \$44,999
 \$45,000 to \$49,999
 \$50,000 to \$54,999
 \$55,000 to \$59,999
 \$60,000 to \$64,999
 \$65,000 to \$69,999
 \$70,000 to \$74,999
 \$75,000 to \$79,999
 \$80,000 to \$89,999
 \$90,000 to \$99,999
 \$100,000 to \$124,999
 \$125,000 to \$149,999
 \$150,000 to \$174,999
 \$175,000 to \$199,999
 \$200,000 to \$249,999
 \$250,000 to \$299,999
 \$300,000 to \$399,999
 \$400,000 to \$499,999
 \$500,000 or more

Answer only if you PAY RENT for this house or apartment —

H7a. What is the monthly rent?

Less than \$80
 \$80 to \$99
 \$100 to \$124
 \$125 to \$149
 \$150 to \$174
 \$175 to \$199
 \$200 to \$224
 \$225 to \$249
 \$250 to \$274
 \$275 to \$299
 \$300 to \$324
 \$325 to \$349
 \$350 to \$374
 \$375 to \$399
 \$400 to \$424
 \$425 to \$449
 \$450 to \$474
 \$475 to \$499
 \$500 to \$524
 \$525 to \$549
 \$550 to \$599
 \$600 to \$649
 \$650 to \$699
 \$700 to \$749
 \$750 to \$999
 \$1,000 or more

b. Does the monthly rent include any meals?

Yes No

FOR CENSUS USE

A. Total persons	B. Type of unit		D. Months vacant		G. DO		ID	
	Occupied	Vacant	<input type="radio"/> Less than 1	<input type="radio"/> 6 up to 12				
	<input type="radio"/> First form	<input type="radio"/> Regular	<input type="radio"/> 1 up to 2	<input type="radio"/> 12 up to 24				
	<input type="radio"/> Cont'n	<input type="radio"/> Usual home elsewhere	<input type="radio"/> 2 up to 6	<input type="radio"/> 24 or more				
	C1. Vacancy status		E. Complete after					
	<input type="radio"/> For rent	<input type="radio"/> For seas/rec/occ	<input type="radio"/> LR	<input type="radio"/> TC	<input type="radio"/> QA	JIC 1		
	<input type="radio"/> For sale only	<input type="radio"/> For migrant workers	<input type="radio"/> P/F	<input type="radio"/> RE	<input type="radio"/> I/T			
	<input type="radio"/> Rented or sold, not occupied	<input type="radio"/> Other vacant	<input type="radio"/> MV	<input type="radio"/> ED	<input type="radio"/> EN			
	C2. Is this unit boarded up?		<input type="radio"/> P0	<input type="radio"/> P3	<input type="radio"/> P6	JIC 2		
	<input type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> P1	<input type="radio"/> P4	<input type="radio"/> IA			
			<input type="radio"/> P2	<input type="radio"/> P5	<input type="radio"/> SM			
			F. Cov.					
			<input type="radio"/> 1b	<input type="radio"/> 1a	<input type="radio"/> 7	<input type="radio"/> H1		

<p>H8. When did the person listed in column 1 on page 2 move into this house or apartment?</p> <p> <input type="radio"/> 1989 or 1990 <input type="radio"/> 1985 to 1988 <input type="radio"/> 1980 to 1984 <input type="radio"/> 1970 to 1979 <input type="radio"/> 1960 to 1969 <input type="radio"/> 1959 or earlier </p>	<p>H14. Which FUEL is used MOST for heating this house or apartment?</p> <p> <input type="radio"/> Gas: from underground pipes serving the neighborhood <input type="radio"/> Gas: bottled, tank, or LP <input type="radio"/> Electricity <input type="radio"/> Fuel oil, kerosene, etc. <input type="radio"/> Coal or coke <input type="radio"/> Wood <input type="radio"/> Solar energy <input type="radio"/> Other fuel <input type="radio"/> No fuel used </p>	<p>H20. What are the yearly costs of utilities and fuels for this house or apartment? If you have lived here less than 1 year, estimate the yearly cost.</p> <p>a. Electricity</p> <p>\$ _____ .00 Yearly cost — Dollars</p> <p>OR</p> <p> <input type="radio"/> Included in rent or in condominium fee <input type="radio"/> No charge or electricity not used </p>
<p>H9. How many bedrooms do you have; that is, how many bedrooms would you list if this house or apartment were on the market for sale or rent?</p> <p> <input type="radio"/> No bedroom <input type="radio"/> 1 bedroom <input type="radio"/> 2 bedrooms <input type="radio"/> 3 bedrooms <input type="radio"/> 4 bedrooms <input type="radio"/> 5 or more bedrooms </p>	<p>H15. Do you get water from —</p> <p> <input type="radio"/> A public system such as a city water department, or private company? <input type="radio"/> An individual drilled well? <input type="radio"/> An individual dug well? <input type="radio"/> Some other source such as a spring, creek, river, cistern, etc.? </p>	<p>b. Gas</p> <p>\$ _____ .00 Yearly cost — Dollars</p> <p>OR</p> <p> <input type="radio"/> Included in rent or in condominium fee <input type="radio"/> No charge or gas not used </p>
<p>H10. Do you have COMPLETE plumbing facilities in this house or apartment; that is, 1) hot and cold piped water, 2) a flush toilet, and 3) a bathtub or shower?</p> <p> <input type="radio"/> Yes, have all three facilities <input type="radio"/> No </p>	<p>H16. Is this building connected to a public sewer?</p> <p> <input type="radio"/> Yes, connected to public sewer <input type="radio"/> No, connected to septic tank or cesspool <input type="radio"/> No, use other means </p>	<p>c. Water</p> <p>\$ _____ .00 Yearly cost — Dollars</p> <p>OR</p> <p> <input type="radio"/> Included in rent or in condominium fee <input type="radio"/> No charge </p>
<p>H11. Do you have COMPLETE kitchen facilities; that is, 1) a sink with piped water, 2) a range or cookstove, and 3) a refrigerator?</p> <p> <input type="radio"/> Yes <input type="radio"/> No </p>	<p>H17. About when was this building first built?</p> <p> <input type="radio"/> 1989 or 1990 <input type="radio"/> 1985 to 1988 <input type="radio"/> 1980 to 1984 <input type="radio"/> 1970 to 1979 <input type="radio"/> 1960 to 1969 <input type="radio"/> 1950 to 1959 <input type="radio"/> 1940 to 1949 <input type="radio"/> 1939 or earlier <input type="radio"/> Don't know </p>	<p>d. Oil, coal, kerosene, wood, etc.</p> <p>\$ _____ .00 Yearly cost — Dollars</p> <p>OR</p> <p> <input type="radio"/> Included in rent or in condominium fee <input type="radio"/> No charge or these fuels not used </p>
<p>H12. Do you have a telephone in this house or apartment?</p> <p> <input type="radio"/> Yes <input type="radio"/> No </p>	<p>H18. Is this house or apartment part of a condominium?</p> <p> <input type="radio"/> Yes <input type="radio"/> No </p> <p><i>If you live in an apartment building, skip to H20.</i></p>	
<p>H13. How many automobiles, vans, and trucks of one-ton capacity or less are kept at home for use by members of your household?</p> <p> <input type="radio"/> None <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 5 <input type="radio"/> 6 <input type="radio"/> 7 or more </p>	<p>H19a. Is this house on less than 1 acre?</p> <p> <input type="radio"/> Yes — Skip to H20 <input type="radio"/> No </p> <p>b. In 1989, what were the actual sales of all agricultural products from this property?</p> <p> <input type="radio"/> None <input type="radio"/> \$1 to \$999 <input type="radio"/> \$1,000 to \$2,499 <input type="radio"/> \$2,500 to \$4,999 <input type="radio"/> \$5,000 to \$9,999 <input type="radio"/> \$10,000 or more </p>	

QUESTIONS FOR YOUR HOUSEHOLD

INSTRUCTION:

Answer questions H21 TO H26, if this is a one-family house, a condominium, or a mobile home that someone in this household OWNS OR IS BUYING; otherwise, go to page 6.

H21. What were the real estate taxes on THIS property last year?

\$ [] .00
Yearly amount — Dollars

OR

None

H22. What was the annual payment for fire, hazard, and flood insurance on THIS property?

\$ [] .00
Yearly amount — Dollars

OR

None

H23a. Do you have a mortgage, deed of trust, contract to purchase, or similar debt on THIS property?

- Yes, mortgage, deed of trust, or similar debt } Go to H23b
- Yes, contract to purchase }
- No — Skip to H24a

b. How much is your regular monthly mortgage payment on THIS property? Include payment only on first mortgage or contract to purchase.

\$ [] .00
Monthly amount — Dollars

OR

No regular payment required — Skip to H24a

c. Does your regular monthly mortgage payment include payments for real estate taxes on THIS property?

- Yes, taxes included in payment
- No, taxes paid separately or taxes not required

d. Does your regular monthly mortgage payment include payments for fire, hazard, or flood insurance on THIS property?

- Yes, insurance included in payment
- No, insurance paid separately or no insurance

H24a. Do you have a second or junior mortgage or a home equity loan on THIS property?

- Yes
- No — Skip to H25

b. How much is your regular monthly payment on all second or junior mortgages and all home equity loans?

\$ [] .00
Monthly amount — Dollars

OR

No regular payment required

Answer ONLY if this is a CONDOMINIUM —

H25. What is the monthly condominium fee?

\$ [] .00
Monthly amount — Dollars

Answer ONLY if this is a MOBILE HOME —

H26. What was the total cost for personal property taxes, site rent, registration fees, and license fees on this mobile home and its site last year? Exclude real estate taxes.

\$ [] .00
Yearly amount — Dollars

Please turn to page 6. →

9
8
7
6
5
4
3
2
1
0

23a. How did this person usually get to work LAST WEEK? If this person usually used more than one method of transportation during the trip, fill the circle of the one used for most of the distance.

Car, truck, or van Motorcycle
 Bus or trolley bus Bicycle
 Streetcar or trolley car Walked
 Subway or elevated Worked at home
 Railroad Ferryboat Other method
 Taxicab *Skip to 28*

If "car, truck, or van" is marked in 23a, go to 23b. Otherwise, skip to 24a.

b. How many people, including this person, usually rode to work in the car, truck, or van LAST WEEK?

Drove alone 5 people
 2 people 6 people
 3 people 7 to 9 people
 4 people 10 or more people

24a. What time did this person usually leave home to go to work LAST WEEK?

a.m.
 p.m.

b. How many minutes did it usually take this person to get from home to work LAST WEEK?

Minutes — *Skip to 28*

25. Was this person TEMPORARILY absent or on layoff from a job or business LAST WEEK?

Yes, on layoff
 Yes, on vacation, temporary illness, labor dispute, etc.
 No

26a. Has this person been looking for work during the last 4 weeks?

Yes
 No — *Skip to 27*

b. Could this person have taken a job LAST WEEK if one had been offered?

No, already has a job
 No, temporarily ill
 No, other reasons (in school, etc.)
 Yes, could have taken a job

27. When did this person last work, even for a few days?

1990 1980 to 1984
 1989 1979 or earlier
 1988 Never worked
 1985 to 1987

Go to 28 *Skip to 32*

28-30. CURRENT OR MOST RECENT JOB ACTIVITY. Describe clearly this person's chief job activity or business last week. If this person had more than one job, describe the one at which this person worked the most hours. If this person had no job or business last week, give information for his/her last job or business since 1985.

28. Industry or Employer

a. For whom did this person work? If now on active duty in the Armed Forces, fill this circle and print the branch of the Armed Forces.

(Name of company, business, or other employer)

b. What kind of business or industry was this? Describe the activity at location where employed.

(For example: hospital, newspaper publishing, mail order house, auto engine manufacturing, retail bakery)

c. Is this mainly — Fill ONE circle

Manufacturing Other (agriculture, construction, service, government, etc.)
 Wholesale trade
 Retail trade

29. Occupation

a. What kind of work was this person doing?

(For example: registered nurse, personnel manager, supervisor of order department, gasoline engine assembler, cake icer)

b. What were this person's most important activities or duties?

(For example: patient care, directing hiring policies, supervising order clerks, assembling engines, icing cakes)

30. Was this person — Fill ONE circle

Employee of a PRIVATE FOR PROFIT company or business or of an individual, for wages, salary, or commissions
 Employee of a PRIVATE NOT-FOR-PROFIT, tax-exempt, or charitable organization
 Local GOVERNMENT employee (city, county, etc.)
 State GOVERNMENT employee
 Federal GOVERNMENT employee
 SELF-EMPLOYED in own NOT INCORPORATED business, professional practice, or farm
 SELF-EMPLOYED in own INCORPORATED business, professional practice, or farm
 Working WITHOUT PAY in family business or farm

31a. Last year (1989), did this person work, even for a few days, at a paid job or in a business or farm?

Yes
 No — *Skip to 32*

b. How many weeks did this person work in 1989? Count paid vacation, paid sick leave, and military service.

Weeks

c. During the weeks WORKED in 1989, how many hours did this person usually work each week?

Hours

32. INCOME IN 1989 — Fill the "Yes" circle below for each income source received during 1989. Otherwise, fill the "No" circle. If "Yes," enter the total amount received during 1989. For income received jointly, see instruction guide. If exact amount is not known, please give best estimate. If net income was a loss, write "Loss" above the dollar amount.

a. Wages, salary, commissions, bonuses, or tips from all jobs — Report amount before deductions for taxes, bonds, dues, or other items.

Yes No

\$.00
 Annual amount — Dollars

b. Self-employment income from own nonfarm business, including proprietorship and partnership — Report NET income after business expenses.

Yes No

\$.00
 Annual amount — Dollars

c. Farm self-employment income — Report NET income after operating expenses. Include earnings as a tenant farmer or sharecropper.

Yes No

\$.00
 Annual amount — Dollars

d. Interest, dividends, net rental income or royalty income, or income from estates and trusts — Report even small amounts credited to an account.

Yes No

\$.00
 Annual amount — Dollars

e. Social Security or Railroad Retirement

Yes No

\$.00
 Annual amount — Dollars

f. Supplemental Security Income (SSI), Aid to Families with Dependent Children (AFDC), or other public assistance or public welfare payments.

Yes No

\$.00
 Annual amount — Dollars

g. Retirement, survivor, or disability pensions — Do NOT include Social Security.

Yes No

\$.00
 Annual amount — Dollars

h. Any other sources of income received regularly such as Veterans' (VA) payments, unemployment compensation, child support, or alimony — Do NOT include lump-sum payments such as money from an inheritance or the sale of a home.

Yes No

\$.00
 Annual amount — Dollars

33. What was this person's total income in 1989? Add entries in questions 32a through 32h; subtract any losses. If total amount was a loss, write "Loss" above amount.

None OR \$.00
 Annual amount — Dollars

Please turn the page and answer questions for Person 2 listed on page 1. If this is the last person listed in question 1a on page 1, go to the back of the form.

APPENDIX F.

Data Products and User Assistance

CONTENTS

Data Products	F-1
Geographic Products	F-3
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The 1990 census data products, being released during 1991-93, are available in a variety of new and traditional media. The Census Bureau has increased the product options available to data users in an effort to meet a variety of requirements and maximize the usefulness of the data. For example, laser discs, called CD-ROM (compact disc—read-only memory), are a new data delivery medium.

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

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

DATA PRODUCTS

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

The data products present statistics about the subjects covered in the 1990 census questionnaires. These subjects are listed in figure 1, page F-7. As the figure shows, there are 100-percent subjects (those covered in questions asked of everyone or about every housing unit) and sample subjects (those covered in questions asked at about one out of every six housing units). Generally, a data product presents either 100-percent data prepared by tabulating the responses to the 100-percent questions from all questionnaires, or sample data prepared by tabulating only the responses to the 100-percent and sample questions from the “long-form” questionnaires. Two report series, 1990 CPH-3 and 1990 CPH-4 (see figure 2, page F-8), present both 100-percent and sample data.

Printed Reports

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

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

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

Computer Tape Files

The Census Bureau provides more data on tape and other machine-readable products than in printed reports. These products are sold by the Census Bureau's Customer Services. There are several general types of data files released on computer tape (available on both reels and cartridges). They are introduced below, and more information is presented in figures 3 and 4, pages F-11 through F-13.

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

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

Here are some important features of STF's:

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

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

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

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

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

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

Microfiche

Block statistics are available on microfiche as they were for the 1980 census. The microfiche present, in table format, a subset of the tabulations for census blocks found in STF 1B (see figure 3). In the 1990 census, for the first time, the entire land area of the Nation and its possessions was block-numbered. This increased the number of blocks for which the Census Bureau provides data from 2.5 million in 1980 to 7 million for 1990. The cost and storage of block data of this magnitude would be prohibitive if the data were published in printed reports.

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

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

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

Online Information Systems

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

Custom Data Products

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

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

User-Defined Areas Program (UDAP) Tabulations—

UDAP can provide a set of predefined data tables for locally defined areas that do not correspond to standard 1990 census geographic areas. Users identify the geographic areas of interest to them by delineating boundaries around groupings of census blocks on 1990 census County

Block Maps or by electronically submitting the geographic components of their area of interest. (A contact for more information is given in the "Sources of Assistance" section.)

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

GEOGRAPHIC PRODUCTS

Maps

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

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

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

Census Tract/Block Numbering Area (BNA) Outline Maps—Maps in this county-based series depict census tract or BNA boundaries and numbers, and the features underlying the boundaries. They also show governmental units in relation to the census tracts/BNA's. Customer Services sells electrostatic-plotter copies, and the Superintendent of Documents sells printed copies.

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

Geographic Publications

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

Machine-Readable Geographic Files

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

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

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

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

Codes for each side of street segments in major urban areas; provide the names of landmarks, such as lakes and golf courses; and include other information.

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

REFERENCE MATERIALS

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

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

- *Monthly Product Announcement*. A free monthly listing of all new Census Bureau publications; microfiche; maps; data files on tape, diskettes, or CD-ROM; and technical documentation. To subscribe, contact Customer Services.
- *Census Catalog and Guide*. A comprehensive annual description of data products, statistical programs, and services of the Census Bureau. It provides abstracts of the publications, data files, microfiche, maps, and items online. In addition, the Catalog/ Guide offers such features as information about censuses and surveys and telephone contact lists of data specialists at the Census Bureau, the State Data Centers, and other data processing service centers. It is sold by the Superintendent of Documents, U.S. Government Printing Office.

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

SOURCES OF ASSISTANCE

U.S. Bureau of the Census

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

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

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

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

Regional Office Contacts—

Atlanta, GA	404-347-2274
Boston, MA	617-565-7078
Charlotte, NC	704-371-6144
Chicago, IL	312-353-0980
Dallas, TX	214-767-7105
Denver, CO	303-969-7750
Detroit, MI	313-354-4654
Kansas City, KS	913-236-3711
Los Angeles, CA	818-904-6339
New York, NY	212-264-4730
Philadelphia, PA	215-597-8313
Seattle, WA	206-728-5314

Superintendent of Documents, U.S. Government Printing Office

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

Other Sources of Products and Services

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

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

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

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

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

OTHER CENSUS BUREAU RESOURCES

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

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

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

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

The other statistical activities of the Census Bureau are described below. Data users will find more information about them and descriptions of their data products in the

annual *Census Catalog and Guide*. Also, special guides and brochures are prepared for most of them. Contact the Census Bureau's Customer Services for more information.

Current Demographic and Housing Programs

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

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

Economic Censuses and Surveys

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

Several key statistics are tabulated for all industries covered in the censuses. They are number of establishments, number of employees, payroll, and measure of output (sales or receipts, and value of shipments or of work done). Other items vary from sector to sector.

The Census Bureau also has programs that provide current statistics on such measures as total sales of particular kinds of businesses or production of particular products. These programs include monthly, quarterly, and annual surveys, the results of which appear in publication series such as *Current Business Reports* and *Current Industrial Reports*. The County Business Patterns program offers annual statistics based on data compiled primarily from administrative records.

Agriculture Census and Surveys

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

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

Governments Census and Surveys

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

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

Foreign Trade Statistics

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

Other Statistical Activities

The Census Bureau also offers international data. It maintains an international data base which is available to the public on computer tape and is used to produce the biennial *World Population Profile* report. It prepares studies dealing with the demographic and economic characteristics of other countries and world regions.

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

Figure 1. 1990 Census Content

100-PERCENT COMPONENT

Population

Household relationship
Sex
Race
Age
Marital status
Hispanic origin

Housing

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

SAMPLE COMPONENT

Population

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

Economic characteristics:

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

Housing

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

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

Figure 2. 1990 Census Printed Reports

Series	Title	Report(s) issued for	Description	Geographic areas
1990 CENSUS OF POPULATION AND HOUSING (1990 CPH)				
100-Percent Data				
1990 CPH-1	Summary Population and Housing Characteristics	U.S., States, DC, Puerto Rico, and U.S. Virgin Islands	Population and housing unit counts, and summary statistics on age, sex, race, Hispanic origin, household relationship, units in structure, value and rent, number of rooms, tenure, and vacancy characteristics	Local governmental units (i.e., counties, places, and towns and townships), other county subdivisions, and American Indian and Alaska Native areas
1990 CPH-2	Population and Housing Unit Counts	U.S., States, DC, Puerto Rico, and U.S. Virgin Islands	Total population and housing unit counts for 1990 and previous censuses	States, counties, county subdivisions, places, State component parts of metropolitan areas (MA's) and urbanized areas (UA's), and summary geographic areas (for example, urban and rural)
100-Percent and Sample Data				
1990 CPH-3	Population and Housing Characteristics for Census Tracts and Block Numbering Areas	MA's, and the nonmetropolitan balance of each State, Puerto Rico, and U.S. Virgin Islands	Statistics on 100-percent and sample population and housing subjects	In MA's: census tracts/ block numbering areas (BNA's), places of 10,000 or more inhabitants, and counties. In the remainder of each State: census tracts/ BNA's, places of 10,000 or more, and counties
1990 CPH-4	Population and Housing Characteristics for Congressional Districts of the 103rd Congress	States and DC	Statistics on 100-percent and sample population and housing subjects	Congressional districts (CD's) and, within CD's, counties, places of 10,000 or more inhabitants, county subdivisions of 10,000 or more inhabitants in selected States, and American Indian and Alaska Native areas
Sample Data				
1990 CPH-5	Summary Social, Economic, and Housing Characteristics	U.S., States, DC, Puerto Rico, and U.S. Virgin Islands	Statistics generally on sample population and housing subjects	Local governmental units (i.e., counties, places, and towns and townships), other county subdivisions, and American Indian and Alaska Native areas
1990 CENSUS OF POPULATION (1990 CP)				
100-Percent Data				
1990 CP-1	General Population Characteristics	U.S., States, DC, Puerto Rico, and U.S. Virgin Islands	Detailed statistics on age, sex, race, Hispanic origin, marital status, and household relationship characteristics	States, counties, places of 1,000 or more inhabitants, county subdivisions of 1,000 or more inhabitants in selected States, State parts of American Indian areas, Alaska Native areas, and summary geographic areas such as urban and rural

Figure 2. 1990 Census Printed Reports—Con.

Series	Title	Report(s) issued for	Description	Geographic areas
1990 CENSUS OF POPULATION (1990 CP)—Con.				
100-Percent Data—Con.				
1990 CP-1-1A	General Population Characteristics for American Indian and Alaska Native Areas	U.S.	Detailed statistics on age, sex, race, Hispanic origin, marital status, and household relationship characteristics	American Indian and Alaska Native areas; i.e., American Indian reservations, off-reservation trust lands, tribal jurisdiction statistical areas (Oklahoma), tribal designated statistical areas, Alaska Native village statistical areas, and Alaska Native Regional Corporations
1990 CP-1-1B	General Population Characteristics for Metropolitan Areas	U.S.	Detailed statistics on age, sex, race, Hispanic origin, marital status, and household relationship characteristics	Individual MA's. For MA's split by State boundaries, summaries are provided both for the parts and for the whole MA
1990 CP-1-1C	General Population Characteristics for Urbanized Areas	U.S.	Detailed statistics on age, sex, race, Hispanic origin, marital status, and household relationship characteristics	Individual UA's. For UA's split by State boundaries, summaries are provided both for the parts and for the whole UA
Sample Data				
1990 CP-2	Social and Economic Characteristics	U.S., States, DC, Puerto Rico, and U.S. Virgin Islands	Statistics generally on sample population subjects	States (including summaries such as urban and rural), counties, places of 2,500 or more inhabitants, county subdivisions of 2,500 or more inhabitants in selected States, Alaska Native areas, and the State portion of American Indian areas
1990 CP-2-1A	Social and Economic Characteristics for American Indian and Alaska Native Areas	U.S.	Statistics generally on sample population subjects	American Indian and Alaska Native areas, as for CP-1-1A
1990 CP-2-1B	Social and Economic Characteristics for Metropolitan Areas	U.S.	Statistics generally on sample population subjects	Individual MA's, as for CP-1-1B
1990 CP-2-1C	Social and Economic Characteristics for Urbanized Areas	U.S.	Statistics generally on sample population subjects	Individual UA's, as for CP-1-1C
1990 CP-3	Population Subject Reports	Selected subjects	Approximately 30 reports on population census subjects such as migration, education, income, the older population, and racial and ethnic groups	Generally limited to the U.S., regions, and divisions; for some reports, other highly populated areas such as States, MA's, counties, and large places

Figure 2. 1990 Census Printed Reports—Con.

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

Figure 3. 1990 Census Summary Tape Files

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

	Geographic areas	Description
STF 1 (100 percent)	A ^{2 3}	States, counties, county subdivisions, places, census tracts/ block numbering areas (BNA's), block groups (BG's). Also Alaska Native areas and State parts of American Indian areas
	B ^{2 3}	States, counties, county subdivisions, places, census tracts/ BNA's, BG's, blocks. Also Alaska Native areas and State parts of American Indian areas
	C ³	U.S., regions, divisions, States (including summaries such as urban and rural), counties, places of 10,000 or more inhabitants, county subdivisions of 10,000 or more inhabitants in selected States, metropolitan areas (MA's), urbanized areas (UA's), American Indian and Alaska Native areas
	D	Congressional districts (CD's) of the 103rd Congress by State; and within each CD: counties, places of 10,000 or more inhabitants, county subdivisions of 10,000 or more inhabitants in selected States, Alaska Native areas, and American Indian areas
STF 2 (100 percent)	A	In MA's: counties, places of 10,000 or more inhabitants, and census tracts/ BNA's. In the remainder of each State: counties, places of 10,000 or more inhabitants, and census tracts/ BNA's
	B	States (including summaries such as urban and rural), counties, places of 1,000 or more inhabitants, county subdivisions, State parts of American Indian areas, and Alaska Native areas
	C	U.S., regions, divisions, States (including summaries such as urban and rural), counties, places of 10,000 or more inhabitants, county subdivisions of 10,000 or more inhabitants in selected States, all county subdivisions in New England MA's, American Indian and Alaska Native areas, MA's, UA's
STF 3 (Sample)	A ^{2 3}	States, counties, county subdivisions, places, census tracts/ BNA's, BG's. Also Alaska Native areas and State parts of American Indian areas
	B ³	Five-digit ZIP Codes within each State
	C ³	U.S., regions, divisions, States, counties, places of 10,000 or more inhabitants, county subdivisions of 10,000 or more inhabitants in selected States, American Indian and Alaska Native areas, MA's, UA's
	D	CD's of the 103rd Congress by State; and within each CD: counties, places of 10,000 or more inhabitants, county subdivisions of 10,000 or more inhabitants in selected States

Figure 3. 1990 Census Summary Tape Files—Con.

Summary Tape File (STF 1A, 1B, etc.) and data type (100 percent or sample) ¹	Geographic areas	Description
	A	In MA's: counties, places of 10,000 or more inhabitants, and census tracts/ BNA's. In the remainder of each State: counties, places of 10,000 or more inhabitants, and census tracts/ BNA's
STF 4 (Sample)	B	State (including summaries such as urban and rural), counties, places of 2,500 or more inhabitants, county subdivisions of 2,500 or more inhabitants in selected States, all county subdivisions in New England MA's, State parts of American Indian areas, and Alaska Native areas
	C	U.S., regions, divisions, States (including urban and rural and metropolitan and nonmetropolitan components), counties, places of 10,000 or more inhabitants, county subdivisions of 10,000 or more inhabitants in selected States, all county subdivisions in New England MA's, American Indian and Alaska Native areas, MA's, UA's
		Over 8,500 cells/ items of sample population and housing characteristics for each geographic area. Each of the STF 4 files will include a set of tabulations for the total population and separate presentations of tabulations by race and Hispanic origin.

¹Similar STF's will be prepared for Puerto Rico and the U.S. Virgin Islands.

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

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

Figure 4. Other 1990 Census Data Products

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

Maps are not available.