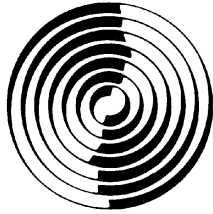


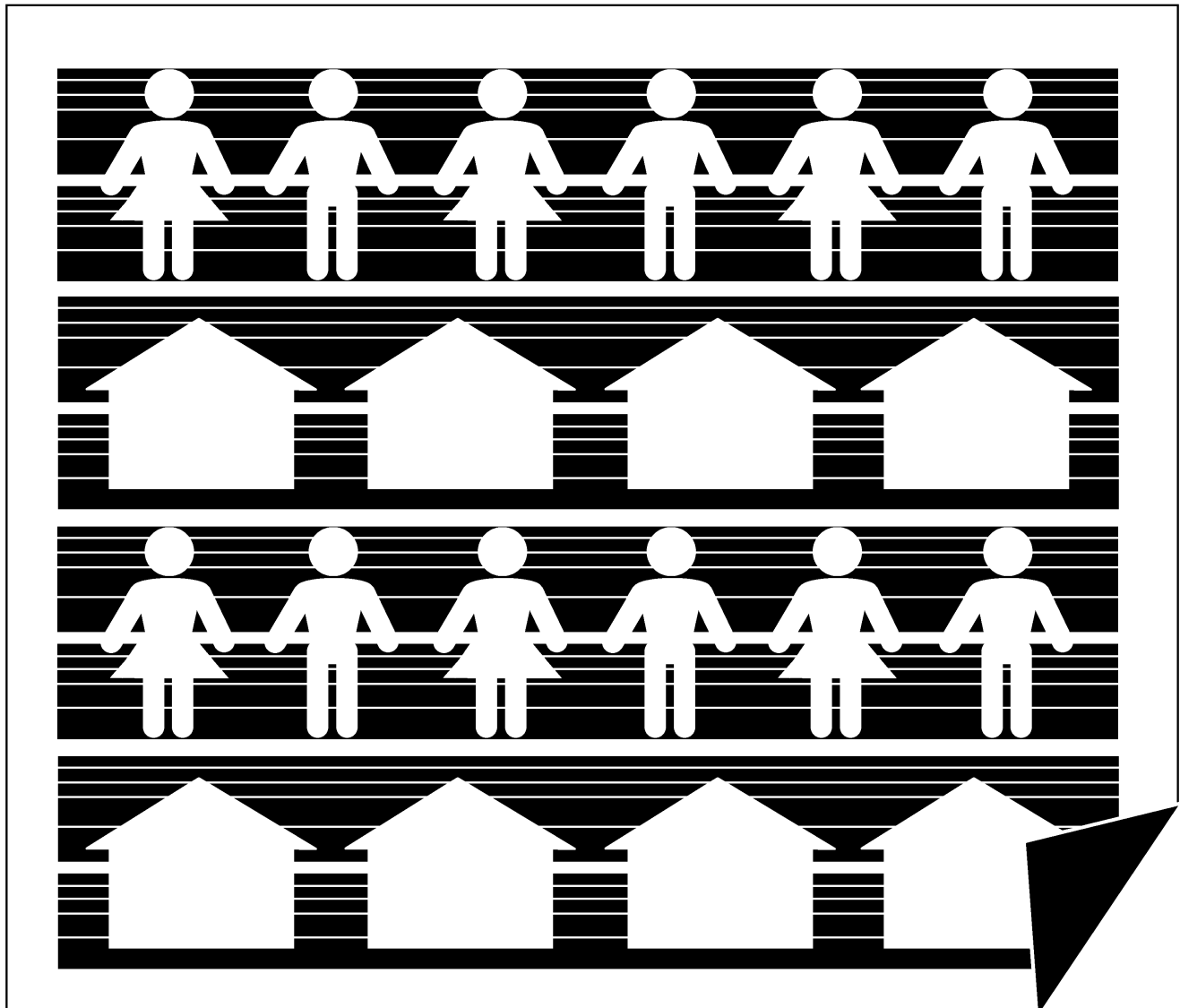
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CENSUS '90



1990 Census of
Population and Housing
Evaluation and Research Reports
**Content Reinterview Survey:
Accuracy of Data for
Selected Population and
Housing Characteristics as
Measured by Reinterview**



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CHAPTER 1.

Introduction and Background

INTRODUCTION

Evaluation of the quality of the data collected in the 1990 Census of Population and Housing is important for both data users and census planners. Users must have knowledge of the accuracy and reliability of the data to make informed decisions about how errors in the data may affect conclusions drawn. Census planners need similar information to develop and test methods to improve the overall quality of the data produced in future censuses.

Information on the quality of responses for selected population and housing items from the 1990 census is presented in this report. The data presented are based on a survey done uniquely for purposes of measuring response error—the Content Reinterview Survey (CRS). A reinterview survey involves selecting a sample of housing units which were originally enumerated in the census, then conducting a second interview with these same households. Comparisons of data items are made at the address level for housing characteristics and at the person level for population characteristics.

The 1990 census required data collection and processing procedures which were often complex and sometimes subject to error. Some error is introduced when a sample of the population is enumerated for a given item. This type of error is called sampling error. Estimates of sampling error are provided in all census publications. Other errors, called nonsampling errors, can result from the methods used to collect and process the data. Only response errors—those which come from erroneous or unreliable reporting of the characteristics—are evaluated in the CRS. A response error results from the assignment of a housing unit or a person to an incorrect category in a classification system. For example, if a person belongs to the citizenship category “born in the United States,” a response error results from the assignment of that person to one of the other citizenship categories (appendix A, item 9 of the census questionnaire). These errors affect census data in a number of ways:

1. The errors may introduce bias into the estimate of the population parameter.
2. The errors create variability in the classification of an element over repeated trials.
3. The errors distort the relationship among the variables.

Response errors may be due to the questionnaire design, the interview mode (mail, telephone, personal visit), the wording of questions, or other causes. These

errors may be accidental due to a misunderstanding of the question, may be introduced purposely, or may arise from insufficient information on the part of respondents to provide accurate answers to a question. The enumerator may affect the accuracy of a response by the way he/ she asks questions or interprets and records responses. Errors introduced at the data processing stage are due primarily to the methods used to fill data items that were left blank during the data collection stage.

The effect of response errors on the quality of the data obtained for a particular category of a data item is reflected by the level of net and gross error associated with that category. For a particular category, response errors produce misclassifications both into and out of the category. The net error associated with a category represents the difference between the number of persons or housing units erroneously included in the category and those erroneously omitted from the category. The gross error represents the sum of those numbers, or the total number of response errors associated with the category. Thus, the net error reflects bias in the category while the gross error reflects the variability in the measurement process.

The 1990 Content Reinterview Survey was designed to provide estimates of response bias and simple response variance associated with many of the questions asked in the 1990 census. The format of the reinterview depended on whether response variance or response bias of the census characteristic was to be measured. To measure response variance, the reinterview attempted to apply the same survey procedures under the same general conditions as the census. To measure response bias, a more detailed questioning sequence was used. This was done to reduce the deficiencies in the original enumeration and to provide more accurate data.

BACKGROUND

The Content Reinterview Survey (CRS) is the largest content evaluation conducted by the Census Bureau and is part of the 1990 Research, Evaluation, and Experimental (REX) program. A similar survey has been conducted after each decennial census since 1950.

The CRS includes as many census topics as possible while still considering cost and respondent burden. Priority is given to new data items and those which have substantively changed since the previous census. In addition, current applicability of previous census content error evaluations is considered. For some items in the CRS, a set of detailed probing questions allowed gathering data with a

degree of accuracy not possible in the census. That is, the CRS may be viewed as the “preferred” measurement technique. Comparison of the reinterview data with the census provides estimates of response bias present in the census data. Items evaluated using a response-bias (probing) type reinterview include:

Race	Tenure
Place of birth	Monthly rent
Citizenship	Meals included in rent
Educational attainment	Plumbing facilities
Ancestry	Number of autos, vans, and trucks
Other languages spoken	Year structure built
Military service status	
Class of worker	
Disability	
Work experience in 1989	

Simple response variance was estimated for some items by asking the same question(s) asked in the census. Items evaluated using a response-variance type reinterview include:

Hispanic origin	Description of building
Year of entry	Size of lot
School enrollment	Agricultural sales
Employment—industry	

Although there is considerable emphasis on geographic detail in census data, an evaluation program cannot provide a separate analysis of each area for which census data are presented without incurring a cost many times that of the census itself. Therefore, only national statistics are presented for this analysis of the accuracy and reliability of the data. Given the size of the CRS sample, it is inappropriate to analyze the data for smaller geographic areas.

Chapter 2 of this report presents a description of the measures of response error which are used to assess the accuracy of selected data items. Interpretations of these measures also are discussed. Chapter 3 discusses all of the housing items which were included in the CRS. Tables of results including summary measures of response error

and discussions of the important findings for each housing characteristic are included. Chapter 4 presents similar data and analysis of the population items. That is followed by a complete description of the design of the Content Reinterview Survey and related operations in chapter 5. The last section of this report, chapter 6, addresses limitations of the survey and the data it collected. Following chapter 6 are a series of tables which present the response error measures for every census item that was evaluated. Appended to the report are facsimiles of the 1990 census questionnaire and the 1990 Content Reinterview Survey questionnaire, the computational formulas for the response error measures, and data comparison tables for the housing and population characteristics.

EDITED CENSUS DATA

As the final processing step, census data go through a computer edit and allocation program. The edited census data contain imputations for missing data and corrections based on consistency checks. It is impossible to simulate these same edit and imputation procedures on the reinterview data. The census imputation procedures often involve using responses from a geographically adjacent housing unit; in the reinterview sample, an adjacent unit would not exist. Also, in many situations, the questions used in consistency checks in the census are excluded from the reinterview questionnaire.

Most of the data in this report are based on census data before application of the final edit and allocation procedures. Tabulations and response errors are available for the edited census data cross-tabulated with unedited reinterview data. However, they are not presented here as analysis revealed that there is very little difference between the response error measures calculated for the unedited or edited census data. Several of the items in the report (place of birth, ancestry, other languages spoken, and years of military service) are only available as edited data because their write-in responses had to be coded. The coding operation took place after the unedited file was made available. Therefore, edited census data are presented for the analysis of these items.

CHAPTER 2.

Measures of Response Error

ESTIMATING SIMPLE RESPONSE VARIANCE AND RESPONSE BIAS

Under certain fairly general survey conditions, matching information for identical housing units or persons from two sources, an original interview and a reinterview, can provide estimates of two response error measures. The first of these is simple response variance, and, to the extent that the reinterview data are based on more accurate measurement methods, estimates of the second response error measure, response bias, can be produced. The discussion that follows is not intended to be a rigorous development of the reinterview measures with respect to the assumptions required. It is a general overview. For a more thorough treatment of the topic, see Biemer (1985) and Biemer and Forsman (1992).

Consider the following two models describing the original census and reinterview observations. Let the members of the population be indexed by j and assume:

$$y_{1j} = \mu_j + e_{1j} \quad \text{\$original interview model\$}$$

$$y_{2j} = \mu_j + e_{2j} \quad \text{\$reinterview model\$}$$

For the j^{th} member of the population, this can be expressed as:

$$\text{Recorded value} = \text{True value} + \text{Error}$$

In general, e_{ij} is the deviation of the recorded value y_{ij} from its true value, μ_j . For categorical data, that is data where μ_j is either 0 or 1, the possible values of e_{1j} and e_{2j} are 0, 1, or -1. This assumes that in both the original and reinterview survey, the true value μ_j , for the j^{th} unit is the same. Of course, the errors e_{1j} and e_{2j} may be different for the original and reinterview. This leads to the following assumptions:

$$E\{e_{1j}\} = B_{1j}; \quad E\{e_{2j}\} = B_{2j}$$

$$V\{e_{1j}\} = \sigma_{1j}^2; \quad V\{e_{2j}\} = \sigma_{2j}^2$$

B_1 and B_2 represent the response bias of the original and reinterview responses. σ_1^2 and σ_2^2 are the simple response variance for the original and reinterview responses; they are the average variance of responses from each population member to the same questions over repeated trials.

The means and variances of the errors e_{1j} and e_{2j} depend upon the general conditions under which the original interview and reinterview are conducted. The

prevailing political climate or socio-economic conditions in existence at the time of either interview are examples of uncontrolled general conditions that may affect responses. Examples of controlled general conditions that can also affect the responses are interview procedures, questionnaire design and wording, interview mode, experience/ training of the interviewers and the time of the year the interviews are obtained.

Let G_1 and G_2 represent the general conditions that prevailed during the original interview and reinterview, respectively. These conditions give rise to the error distributions e_{1j} and e_{2j} . If $G_1 = G_2$, that is, if all the general and controlled conditions affecting response error are the same for both the original interview and the reinterview, then, by definition, $B_1 = B_2$ and $\sigma_1^2 = \sigma_2^2$. Similarly, if $G_1 \neq G_2$, that is, the general and/or controlled conditions are not the same for the two interviews, then it is not necessarily true that $B_1 = B_2$ or that $\sigma_1^2 = \sigma_2^2$.

Table 2.1 illustrates the results of the comparison of the census data with reinterview data for a sample of n units. The term units is used to denote either a person or a housing unit. A value of 1 is assigned to a unit classified as having some specified characteristic and the value 0, otherwise. Units which have no response in either interview for the characteristic being studied are excluded. Table 2.1 shows that "a" of the units were classified as having the specified characteristic in both the census and the reinterview, "a+ b" were classified as having the characteristic in the reinterview and "a+ c" were classified as having the characteristic in the census.

Table 2.1. Cross-Classification of Census Results by Reinterview Results

Reinterview response (y_{2j})	Census response (y_{1j})		
	1	0	Total
1	a	b	a+ b
0	c	d	c+ d
Total	a+ c	b+ d	n = a+ b+ c+ d

$$p_1 = \frac{a+c}{n} = \text{proportion of units classified as having the characteristic in the census.}$$

$$p_2 = \frac{a+b}{n} = \text{proportion of units classified as having the the characteristic in the reinterview.}$$

$$q_1 = 1-p_1 = \frac{b+d}{n} = \text{proportion of units classified as not having the characteristic in the census.}$$

$$q_2 = 1-p_2 = \frac{c+d}{n} = \text{proportion of units classified as not having the characteristic in reinterview.}$$

The net difference rate (NDR) is defined as the expected difference between the estimates of p (p being the percent in class) in the census and reinterview. The expected value equals:

$$E\{p_1 - p_2\} = B_1 - B_2$$

The net difference rate (NDR) is estimated by $\frac{c - b}{n}$. If the reinterview provides the truth, (i.e. $B_2 = 0$), the net difference rate estimates the bias in the census estimates; however, when the reinterview represents an improved procedure over the original survey (i.e. $B_2 < B_1$), the net difference rate estimates the differential bias of the census and reinterview estimates. That is, the NDR underestimates the actual amount of bias in the census.

Simple response variance (SRV) measures the average variability, across population members, of responses to the same question over repeated trials. If the survey conditions are identical for both the original survey and the reinterview, and the errors are uncorrelated, an unbiased estimator of the SRV is $g/2$ where g is the rate of gross disagreement (called the gross difference rate) between the census and reinterview. Thus:

$$g = \frac{b + c}{n}$$

and

$$E\left\{\frac{g}{2}\right\} = \frac{1}{2} \{\sigma_1^2 + \sigma_2^2 - 2\sigma_{12}\}$$

where σ_{12} is the correlation

between the errors e_{1j} and e_{2j} . If $\sigma_2^2 = \sigma_1^2$, and $\sigma_{12} = 0$, then $(g/2)$ provides an unbiased estimate of the simple response variance (SRV) of the census responses.

The impact of SRV on census data is gauged by its magnitude relative to the sum of the sampling variance and simple response variance. This ratio is called the index of inconsistency (I):

$$I = \frac{SRV}{SV + SRV}$$

where SV is the sampling variance. Here, the term sampling variance refers to the variance of the $(\mu_j + B_{1j})$ values from the census over members of the population.

The denominator of the index of inconsistency, $SV + SRV$, can be estimated by $\frac{1}{2}(p_1q_2 + p_2q_1)$. The purpose of pairing p_1 with q_2 is to prevent the erratic and meaningless fluctuations of the index of inconsistency for some questions when the values of p_1 and p_2 differ substantially. Therefore, the estimator of (I) can be written as:

$$\begin{aligned} \hat{I} &= \frac{g/2}{\frac{1}{2}(p_1q_2 + p_2q_1)} \\ &= \frac{\frac{b+c}{n}}{\frac{a+c}{n} \frac{c+d}{n} + \frac{a+b}{n} \frac{b+d}{n}} \\ &= \frac{b+c}{\frac{1}{n}(a+c)(c+d) + \frac{1}{n}(a+b)(b+d)} \end{aligned}$$

In this report, all estimates of the index have been multiplied by 100 so that the computed values can be discussed as percentages.

If the reinterview is not an identical repetition of the census procedure, but represents a less error prone and less variable measurement procedure than the census, the gross difference rate (g) is an underestimate of the simple response variance. The estimated index of inconsistency will thus underestimate the true index.

Appendix B provides details on the computational formulas for the net difference rate and index of inconsistency. Since these measures are estimated from a sample, they are subject to sampling error. The formulas used for calculating the 90-percent confidence intervals on these estimates are also provided in appendix B, along with numerical examples of the computations.

INTERPRETING VALUES OF THE INDEX OF INCONSISTENCY AND THE NET DIFFERENCE RATE

There are several ways of interpreting the estimated index of inconsistency, depending on the methodology used to collect the reinterview data. Although each interpretation uses different terms, each is closely related to the other. The interpretations are:

1. If each of the two observations (the census and the reinterview in this case) is regarded as an independent repetition of the same survey procedure under the same general conditions, the index of inconsistency estimates the ratio of simple response variance to the sum of the sampling variance and simple response variance. In this case, as noted by Biemer (1985), the index of inconsistency measures the impact of misclassification errors on the total variance of an observation.

When identical responses are obtained from observation to observation for each person or housing unit, the simple response variance is zero and the value of the index of inconsistency is zero. When the responses are so variable that simple response variance equals the sum of the sampling variance and the simple response variance, the value of the index is 100.

2. The index of inconsistency may also be interpreted as the complement of a measure of agreement between the census and the reinterview responses. Viewed in this way, the index is the ratio of the observed number of response differences to the number that would occur if the cell counts were formed by a random agreement mechanism based on the observed marginal distributions (census and reinterview). Under this interpretation, the index measures inconsistency (lack of agreement) on a scale from zero (perfect consistency or agreement) to 100 (complete lack of consistency or agreement).

When the second observation is not an attempt to repeat the original interview procedure but, may represent an "improved" data source, the estimated index of inconsistency is almost sure to be an understatement of the ratio of the simple response variance of the original interview procedure to the sum of the sampling variance and simple response variance. The interpretation of the index in these terms as given in paragraph 1 is, therefore, questionable. The interpretation of the index given in paragraph 2 is appropriate, however, even when the second observation is not an attempt to repeat the original interview procedure identically.

For the characteristics evaluated by the response-variance type of reinterview, the interpretation of the index of inconsistency given in paragraph 1 is more appropriate. For the characteristics evaluated by a response-bias type of reinterview, the interpretation given in paragraph 2 for the index of inconsistency is considered to be more appropriate since the reinterview data are expected to be more accurate than the census data.

Values of the index of inconsistency are computed and displayed for each response category in a distribution. For distributions with more than two categories, an index of inconsistency for the entire distribution, referred to as an L-fold index of inconsistency, I_L , is also displayed. This L-fold index is a weighted average of the individual indexes computed for each category of the distribution. The weights are the values of the total variance for the individual response categories. When there are only two categories in an item, the index of inconsistency and the L-fold index are identical.

It should be noted that the level of the index is sensitive to the number and detail of the categories in a classification system as well as to the distribution of the population over the categories. As the detail of the categories is decreased, the index cannot increase and most likely will decrease. The response variance associated with a particular distribution may be decreased to some extent by collapsing the categories of the distribution. The L-fold index is less sensitive to this collapsing than indexes for the individual categories.

The indexes of inconsistency associated with the distribution are useful in evaluating whether the data collection method is adequate for providing valid measures of the characteristic. For the purpose of evaluating the adequacy of a data-collection system, a general rule of thumb for the interpretation of I and I_L is that indexes lower than 20 are small, indicating that response variability is not a major problem for this category or item; indexes between 20 and 50 are moderate, indicating that there is some problem with inconsistent reporting and there is need to improve the question or the data collection method to eliminate the variability in response. Values of the index greater than 50 are an indication that the responses are unreliable and that

(1) improvements are required in the method used to collect these data, (2) the concept itself may not be measurable by census data collection methods, or (3) respondents are not able to provide accurate data to the detail desired. See table 2.2.

The net difference rate, under the assumption that the reinterview measures the true value of a characteristic, gives an estimate of the amount of bias in each category of a data item. However, in most cases, the reinterview may only be an improved measurement procedure and represents more accurate data, on average, than the census, but not necessarily the truth. In this case, the net difference rate provides an underestimate of the bias in the category. Bias in a particular category of a distribution is indicated when the 90 percent confidence interval of the net difference rate does not include zero as a possible value. A positive net difference rate for a particular category indicates that the characteristic was overreported in the census; the estimated percent in class based on the census responses is greater than the estimated percent in class based on reinterview responses. Conversely, a negative net difference rate indicates that the characteristic was underreported in the census; the estimated percent in class based on the census responses is less than the estimated percent in class based on reinterview responses. Guidelines for interpreting the magnitude of a net difference rate, based upon Census Bureau experience, are provided in table 2.2.

Table 2.2. Guidelines for Interpreting the Magnitude of Response Error Measures

Response error measure	Low	Moderate	High
Index of Inconsistency, I	< 20	20-50	> 50
L-fold Index of Inconsistency, I_L ...	< 20	20-50	> 50
Ratio of the net difference rate to the population mean or proportion (absolute value), $|NDR/P|$.....	< .01	.01-.05	> .05

Tables 1, 2, 3, and 4 presented after chapter 6 give the summary measures of response error for each of the analyzed census characteristics. These tables show summary measures of response error for the distributions of unedited census data for each of the categories of an item. The tables give the following measures:

- Total number of recorded responses
- Percent in class for both the census and reinterview
- Estimated index of inconsistency \hat{I} and 90-percent confidence limits
- Estimated L-fold index of inconsistency \hat{I}_L and 90-percent confidence limits
- Net difference rate and 90-percent confidence limits.

CHAPTER 3. Evaluation of Responses for Selected Housing Characteristics

INTRODUCTION

The housing questions evaluated by the Content Reinterview Survey (CRS) are:

- Description of building
- Size of lot
- Agricultural sales
- Tenure
- Number of autos, trucks and vans
- Monthly rent
- Meals included in rent
- Year built
- Plumbing facilities

The first three of these characteristics received a response variance type reinterview. The remaining items received a response bias type reinterview.

Data comparison tables for each item are presented at the U.S. level in appendix C. Response error measures for all items are presented in table 1 (response variance items), on page 32, and table 2 (response bias items), on page 33, at the U.S. level. These two tables also show summary measures of response error by Black householder, non-Black householder, Spanish/ Hispanic householder, non-Spanish/ Hispanic householder, and non-Black and non-Spanish/ Hispanic householder. Each of these subgroups was determined based on census responses. Table E.1 in appendix E shows which census questions were used for this purpose. Facsimiles of both the census and reinterview questions are shown in appendix A. The census and reinterview item numbers from the questionnaire are listed in parentheses following the item name, in this chapter.

RESULTS FOR HOUSING CHARACTERISTICS WITH RESPONSE VARIANCE TYPE REINTERVIEWS

Only three housing items were reinterviewed by asking the same question as was asked in the census. The three items:

- Description of building
- Size of lot
- Agricultural sales

showed moderate inconsistency in response between the census and the reinterview.

As shown in table 3.1, where sufficient data are available, the items are reported more consistently by non-Black householders than they are by Black householders.

Table 3.1. Index of Inconsistency Estimated From Response Variance Type Reinterviews

Characteristic	1990	
	L-fold index of inconsistency	90-percent confidence interval
Description of building		
Total units	21.9	21.0 to 23.0
Black householder	29.2	26.3 to 32.6
Non-Black householder	21.0	20.0 to 22.1
Spanish/ Hispanic householder	33.2	29.3 to 37.9
Non-Spanish/ Hispanic householder	21.2	20.2 to 22.3
Non-Black and non-Spanish/ Hispanic householder	20.1	19.0 to 21.3
Size of lot		
Total units	27.8	26.4 to 29.4
Black householder	67.3	58.6 to 77.8
Non-Black householder	25.4	23.9 to 27.1
Spanish/ Hispanic householder	63.7	50.3 to 81.6
Non-Spanish/ Hispanic householder	27.2	25.7 to 28.8
Non-Black and non-Spanish/ Hispanic householder	24.8	23.3 to 26.5
Agricultural sales		
Total units	41.7	36.2 to 48.2
Black householder . . . . .	...	... ..
Non-Black householder	40.0	34.5 to 46.4
Spanish/ Hispanic householder . . . . .	...	... ..
Non-Spanish/ Hispanic householder	41.2	35.6 to 47.7
Non-Black and non-Spanish/ Hispanic householder	39.6	34.0 to 46.1

... Not sufficient data to report response error measures

Non-Spanish householders report more consistently than Spanish householders. The most consistent data for these items came from non-Black non-Spanish householders.

Description of Building (Census H2, Reinterview H1)

The item on description of building asked about the type of building and the number of units (apartments) in a structure. Data were also collected for a similar item in the 1980 Reinterview. In both surveys, the data were found to be in the moderately inconsistent range (table 3.2). Although in the same range, the trend for the index is downward, indicating that the 1990 data are a little more consistent.

In 1990, owner occupants reported on building description and the size of their structure with low inconsistency. Responses for renter occupied units were a little more inconsistent as might be expected, since many of these units are in multi-unit structures. For the categories asking about a 1-family house, "a 1-family house detached from

Table 3.2. L-Fold Indexes of Inconsistency

Characteristic	1980		1990		1990—Owner		1990—Renter	
	L-fold index of inconsistency	90-percent confidence interval	L-fold index of inconsistency	90-percent confidence interval	L-fold index of inconsistency	90-percent confidence interval	L-fold index of inconsistency	90-percent confidence interval
Description of building	30.0	26.4 to 33.0	21.9	21.0 to 23.0	18.4	17.0 to 20.0	31.0	29.5 to 32.6

any other house” is reported consistently, but “a 1-family house attached to one or more houses” causes some response problems. This is indicated by the differences in individual indexes of inconsistency for these two categories (9.4 versus 33.8 from table 1, page 32).

Size of Lot
(Census H19a, Reinterview H9) and
Agricultural Sales
(Census H19b, Reinterview H10)

The item on size of lot, asking respondents in single unit housing if their house is on less than 1 acre, was reported with moderate inconsistency between the census and the reinterview (L-fold = 27.8, table 1). This item is used to help classify farm residence.

The other criteria for being classified as a farm residence was the actual sale of agricultural products from the property. Sales of agricultural products must exceed \$1,000 to be classified as a farm residence. This agricultural sales question was asked of all housing units which reported they were on one or more acres. This item on agricultural sales was also reported with moderate inconsistency between the census and CRS, indicating that there is a need to improve the question to eliminate the variability in response (L-fold = 41.7, table 1). Almost 90 percent of the units report to the category “None” and 4.5 percent reported in the largest dollar value category, “\$10,000 or more.” While these categories are reported with moderate inconsistency, much of the inconsistency in reporting comes from the responses to the smaller “in between” categories, as might be expected.

A combination of these two questions is used to classify a housing unit as farm residence. Combining data from the two items yield the table 3.3 below.

The index of inconsistency for this table is 34.0, indicating moderate inconsistency between the census and the CRS.

Table 3.3. Nonfarm Versus Farm Residence

Reinterview classification	Census classification		
	Reported	Nonfarm	Farm
Reported	7,576	7,429	147
Nonfarm	7,444	7,390	54
Farm	132	39	93

RESULTS FOR HOUSING CHARACTERISTICS WITH RESPONSE BIAS TYPE REINTERVIEWS

For the remainder of the housing questions:

- Tenure
- Number of autos, vans, and trucks
- Monthly rent
- Meals included in rent
- Year built
- Plumbing facilities

a response bias type reinterview was conducted. More detail on each particular subject was sought.

Table 3.4 shows the 1990 L-fold index of inconsistency for these items and the 1980 index when comparable data are available. Most items exhibited moderate inconsistency in 1990, except tenure and plumbing facilities. The indexes are about the same as those measured in the 1980 census.

Tenure
(Census H4, Reinterview H2a, H2b)

As noted in [19], tenure provides the count of owner occupied and renter occupied units that is basic to most housing unit tabulations and analyses. Historically, owner-occupancy rates collected in direct interview surveys have been slightly higher than those collected in the census. The 1980 census question included one ownership category and two rental categories. In the 1990 census, in order to improve understanding of the ownership concept, the tenure question was changed to include reference to ownership with a mortgage or loan and ownership without a mortgage; that is, “owned free and clear.”

Based on the CRS data, there is an indication that the reported ownership rate is slightly understated in the 1990 census. The inconsistency in the reporting of owner occupied versus renter occupied is in the low range. Table 3.5 shows the net difference rate and index of inconsistency for the collapsed two response category tenure distribution, owner versus renter occupied.

Table 2 shows the response error measures for a more detailed four response category tenure distribution. These data indicate that in comparison to the CRS, the category “Owned by you or someone else in this household with a mortgage or loan” is overstated while the category “Owned by you or someone in this household free and clear (without a mortgage)” is understated in the census. The

Table 3.4. L-Fold Indexes of Inconsistency Estimated From Response Bias Type Reinterviews

Characteristic	1990		1980	
	L-fold index of inconsistency	90-percent confidence interval	L-fold index of inconsistency	90-percent confidence interval
Tenure ¹	8.3	7.6 to 9.0	8.0	7.2 to 9.1
Number of autos, vans, and trucks .	32.1	31.1 to 33.1	autos 34.0 trucks/ vans 26.0	32.1 to 35.1 24.6 to 28.3
Monthly rent	34.7	33.1 to 36.4	-	-
Meals included in rent .....	...	... ..	-	-
Year built ²	27.6	26.7 to 28.6	-	-
Single units	26.2	25.2 to 27.2	25.0	23.3 to 25.9
Multi-units	36.9	34.3 to 39.8	43.0	39.0 to 48.4
Plumbing facilities	53.8	45.1 to 64.2	47.0	39.6 to 55.7

- Not applicable.
 ... Not sufficient data to compute response error measures.
¹Shown for 2 categories in 1990 and 3 categories in 1980.
²Does not include "Don't know" category.

net effect of these differences on the overall owner category, an understatement in the census, is shown in table 3.5. Table 2 also shows that the "Rented for cash rent" category is overstated. No measurable difference exists between the census and the CRS for the "Occupied without payment of cash rent" category.

Analysis of the inconsistent reporting patterns in the census and CRS (table C.4) indicates almost 5 percent of the units reported as "Rented for cash rent" in the census were categorized as "Owned by you or someone in this household with a mortgage or loan" in the CRS. About 85 percent of the occupants in these units indicated by their responses to the reinterview that they, in fact, had a mortgage. These inconsistent reports are a major cause of the apparent difference between the census and the CRS tenure (owner/ renter) distribution. These reporting differences could be due to a difference in the time period of the census and CRS interviews.

Table 3.5. Response Error Measures for Tenure: Owner Occupied Versus Renter Occupied

Tenure	Percent in class		Net difference rate	90-percent confidence interval	Index of inconsistency	90-percent confidence interval
	Census	CRS				
Owner ..	71.0	71.8	*-0.8	-1.0 to -0.4	8.3	7.6 to 9.0
Renter ..	29.0	28.2	*0.8	0.4 to 1.0	8.3	7.6 to 9.0

* Indicates significance at the 10-percent level.

Number of Autos, Vans and Trucks
(Census H13, Reinterview H8a, H8b)

Number of autos, vans and trucks was asked as one question in the 1990 census. Automobiles was asked separately from vans and trucks in the CRS. Comparing the two results, the data were found to be moderately inconsistent (L-fold index = 32.1). In 1980, the two questions were asked individually and the L-fold indexes were about the same level (table 3.4).

While the overall inconsistency is moderate, the more vehicles reported, the more inconsistent the data become. The category "None" is reported most consistently.

Compared to the CRS, there was some evidence of bias in the census data. The category "None" shows overreporting in the census. For households who reported "None" in the census, but reported differently in the reinterview, almost 75 percent reported "1" in the CRS. There is some evidence that the category "4" may be underreported in the census.

Monthly Rent

(Census H7a, Reinterview H3a, H3b, H3c, H3d, H3e, H3f, H3g) and

Meals Included in Rent

(Census H7b, Reinterview H4a, H4b, H4c, H4d)

The census asked monthly rent for respondents who said they pay rent. They could select from 26 categories ranging from "Less than \$80" to "\$1,000 or more." The data were reported with moderate inconsistency between the census and reinterview (L-fold = 34.7). The last two categories, which are the highest dollar amounts and the two broadest categories, are reported more consistently than all the other categories (table 2).

Monthly rent was not evaluated in 1980. In the 1970 reinterview, the rent data were reported consistently with that census. However, the 1970 question only had 14 reporting categories compared to 26 in 1990, so this L-fold index (I = 11.0) is not directly comparable to the 1990 data.

Additional probing questions about monthly contract rent were asked in the CRS. About 300 householders, 12 percent of those reporting rent, said that the federal, State or local government pays part of their rent. About 55 percent of them said they included that amount in the rent they reported. The remaining 45 percent said they did not include the amount in their reported rent. Those who did not include the payment in their rent were asked how much

of the monthly rent was paid by the government. The amounts reported ranged from \$46 to \$760 with the average amount being \$309.

In the CRS, renters were also asked if someone living outside their house/apartment, other than the government, paid part of their rent. About 2.2 percent of those reporting rent, 55 householders, said someone else paid part of their rent. Eighty-eight percent said they included that amount in the rent they reported in the CRS. The remaining 12 percent said they did not include the amount in their reported rent. Those who did not include the payment in their rent were asked how much of the monthly rent was paid by someone outside the household other than the government. The reported amounts ranged from \$110 to \$425 with the average being \$265.

For all householders in the CRS who indicated that they did not include the additional payments, the payments were added to their reported contract rent. New rent tables were created using these data and are shown in appendix E. Table E.2 shows the response error measures based on the new data shown in table E.3. These data indicate that contract rent is still reported with moderate inconsistency (L-fold = 35.0), even after the additional payments are included.

Households that rent their units for cash rent were asked "Does the monthly rent include any meals?" to help identify congregate housing. This item was asked for the first time in the 1990 census. There were not enough housing units responding positively to this question to allow response error measures to be precisely computed.

Five households reported in the reinterview that their monthly rent included meals. Only two of these households had given that same response in the census. Of these five households, three reported that their rent included one meal, one said it included two meals, and one household reported having monthly rent include three or more meals per day.

Out of 2,463 households reporting in the CRS, one-half of 1 percent reported that their monthly rent included the availability of a professional medical person (doctor, nurse,

physical therapist, etc.) on the premises. Another one-half of 1 percent of those reporting on this item in the reinterview said the monthly rent included convalescent facilities on the premises. One percent said their monthly rent included transportation for shopping or recreational needs.

Year Built (Census H17, Reinterview H7)

As noted in [19], analysis of the 1980 census data showed that in many communities the number of housing units built in 1939 or earlier was underreported. To resolve some of this problem, particularly for renters, the 1990 census included a "Don't Know" category. The conjecture was that respondents who did not know the year the unit/ structure was built would answer "Don't Know" rather than guess the year built incorrectly and that the majority of the "Don't know" responses would actually have been built in 1939 or earlier. Subsequent computer processing could assign (allocate) a year built response that was, on average, more accurate.

The main objectives of the CRS for the year built item were to compare the year built distribution of the computer allocated values for the "Don't Know" responses to the census question versus the CRS responses and to determine the effect of the allocation procedure on the overall quality of the census year built data. The CRS, therefore, included a year built question without a "Don't Know" category. This analysis has been included under the response bias section since the evaluation focuses on the effect of the computer allocation procedure on the year built distribution.

Table 3.6 shows the year built distribution using the allocated values versus the CRS responses for the census "Don't Know" responses. The net difference rates and their 90-percent confidence intervals are also shown.

These data indicate that the computer allocation procedure tended to assign the "1939 or earlier" category at a substantially lower rate (29.5) than that indicated by the

Table 3.6. Year Built Distribution: Allocated Values Versus CRS Response for Census "Don't Know" Responses

Year built	All units				Owner occupied				Renter occupied			
	Percent in class		Net difference rate	90-percent confidence interval	Percent in class		Net difference rate	90-percent confidence interval	Percent in class		Net difference rate	90-percent confidence interval
	Census (allocated)	CRS			Census (allocated)	CRS			Census (allocated)	CRS		
1989 or 1990.....	0.4	1.0	*-0.6	-1.2 to -0.1	0.6	0.8	-0.2	-1.1 to 0.7	0.3	1.3	*-1.0	-1.8 to -0.2
1985 to 1988.....	4.8	2.4	*2.4	1.3 to 3.6	3.1	1.2	*1.9	0.4 to 3.4	5.9	3.3	*2.7	0.9 to 4.5
1980 to 1984.....	6.5	4.7	*1.7	0.3 to 3.2	5.2	2.1	*3.1	1.2 to 5.0	7.5	6.9	0.6	-1.6 to 2.7
1970 to 1979.....	19.3	15.8	*3.5	1.2 to 5.8	15.3	9.5	*5.8	2.8 to 8.8	22.2	20.2	2.0	-1.4 to 5.3
1960 to 1969.....	13.3	12.7	0.6	-1.5 to 2.6	10.4	10.8	-0.4	-3.2 to 2.4	15.4	14.3	1.1	-1.9 to 4.2
1950 to 1959.....	14.3	13.6	0.7	-1.5 to 2.9	14.5	11.6	2.9	-0.4 to 6.2	14.7	15.0	-0.3	-3.3 to 2.7
1940 to 1949.....	11.9	10.7	1.3	-0.8 to 3.3	11.8	10.8	1.0	-2.2 to 4.2	11.5	10.9	0.6	-2.1 to 3.2
1939 or earlier.....	29.5	39.1	*-9.6	-12.1 to -7.0	39.2	53.3	*-14.1	-18.4 to -9.8	22.4	28.0	*-5.7	-8.9 to -2.4

* Indicates significance at the 10 percent level.

CRS responses (39.1) and to allocate units in the 1970 or earlier categories at a higher rate (except for the “1989 or 1990” category) than indicated by the CRS responses. This was true of both owner and renter occupied units.

Table 3.7 shows the indexes of inconsistency for those units providing a year built response in the census other than “Don’t Know.” Overall, the responses excluding “Don’t Know” are in the moderately inconsistent range, (L-fold = 27.6).

Table 3.8 shows the Census and CRS year built distributions and net difference rates for all units, both those where a response was obtained in the census and the allocated values for the “Don’t Know” responses. This table also includes the individual category indexes of inconsistency and the L-fold index of inconsistency.

In general, it appears that compared to the CRS distribution, the “1939 or earlier” category in the census is biased downward, while the “1940 to 1949” and “1950 to 1959” categories are biased upward. Also, the L-fold index increased to 36.7 as a result of the allocation of the “Don’t Know” responses. The indexes for the individual categories all increased as well. Similar results are apparent for both owner and renter occupied units (tables E.4 and E.5 in appendix E). It must be emphasized that these data cannot be used to evaluate the accuracy of year built data in the sense that the CRS data provide, on average, more accurate responses. Rather, the data in table 3.8 reflect a comparison of the year distributions using two different questions. One question included a “Don’t Know” category (census) and one did not include that category (CRS).

Table 3.7. Indexes of Inconsistency Excluding Census Responses of “Don’t Know”: All Units

Year built	Index of inconsistency	90-percent confidence level
1989 or 1990	42.4	36.0 to 50.0
1985 to 1988	21.2	19.2 to 23.4
1980 to 1984	33.0	30.5 to 35.7
1970 to 1979	22.7	21.3 to 24.3
1960 to 1969	32.2	30.3 to 34.3
1950 to 1959	32.2	30.2 to 34.4
1940 to 1949	42.2	39.2 to 45.5
1939 or earlier	17.1	15.7 to 18.5
L-fold index.....	27.6	26.7 to 28.6

Plumbing Facilities

(Census H10, Reinterview H6a, H6b, H6c)

In previous censuses, questions have been asked about source of water, flush toilet, and bathtub or shower. All of these items relate to the quality and value of housing. The 1990 census had one question on the sample questionnaire asking about COMPLETE plumbing facilities. Complete plumbing facilities consist of 1) hot and cold piped water, 2) a flush toilet, and 3) a bathtub or shower. The 1990 question was worded to elicit a “Yes” and “No” type response for the whole item. In the reinterview, inquiry into each of the components was made separately. A comparison of the CRS data collapsed to compare it to the “Yes” and “No” categories of the census indicates no bias in the distribution, but the data are somewhat inconsistent (L-fold index = 53.8 from table 2, page 34).

The lack of consistency in reporting for this item is not so much due to reporting problems in the category “Yes, have all three facilities,” as it is in the lack of consistency of reporting in the category, “No.” Over 99 percent of the households reporting “Yes” in the census also did so in the reinterview. However, only 44 percent of those answering “No” in the census reported the same in the reinterview (table C.5).

The majority of households (68 percent) who said they had complete plumbing facilities in the census, but reported less than complete facilities in the reinterview, had two of the three necessary facilities when the items were asked individually in the CRS.

The 1980 question, a 100-percent item, asked about the presence of some but not all plumbing facilities. In 1980, the respondent was asked to indicate whether the facilities were used exclusively by household members or were used by another household.

The index of inconsistency in 1990 was not significantly different from that in 1980. Caution should be used in making this comparison because the plumbing item had four response categories in the 1980 census and only two in 1990. The 1990 data appear to be an improvement over 1980 when one of the four categories, “Yes, but also used by another household,” showed a large upward bias. There is no evidence of bias in the 1990 data.

Table 3.8. Indexes of Inconsistency and Net Difference Rates for Year Built Including Allocated Census Values

Year built	Percent in class		Net difference rate		Index of inconsistency	
	Census ¹	CRS	Estimate	90-percent confidence level	Estimate	90-percent confidence level
1989 or 1990	1.1	1.5	*-0.4	-0.6 to -0.2	52.3	45.2 to 60.7
1985 to 1988	8.2	8.3	-0.1	-0.4 to 0.3	27.3	25.1 to 29.7
1980 to 1984	8.7	8.4	0.3	-0.2 to 0.7	39.1	36.5 to 42.0
1970 to 1979	22.6	22.7	-0.2	-0.7 to 0.4	31.5	30.0 to 33.0
1960 to 1969	15.9	15.7	0.2	-0.4 to 0.8	40.7	38.8 to 42.8
1950 to 1959	15.1	14.2	* 0.9	0.3 to 1.4	41.6	39.6 to 43.8
1940 to 1949	8.9	8.3	* 0.7	0.2 to 1.2	53.3	50.3 to 56.6
1939 or earlier	19.4	20.8	*-1.3	-1.9 to -0.8	29.1	27.5 to 30.7
L-fold index					36.7	35.8 to 37.7

* Indicates significance at the 10-percent level.

¹Final edited/ allocated census values.

CHAPTER 4. Evaluation of Responses for Selected Population Characteristics

INTRODUCTION

The population questions evaluated by the Content Reinterview Survey (CRS) are:

- Hispanic origin
- School enrollment
- Year of entry
- Employment—industry
- Place of birth
- Military service
- Citizenship
- Race
- Ancestry
- Language usage
- Industry and occupation—class of worker
- Educational attainment
- Work experience in 1989
- Disability

Hispanic origin and race were collected on a 100-percent basis in the census. All others were asked of a sample of respondents. The first four of these characteristics above received a response variance type reinterview. The remaining items received a response bias type reinterview.

Data comparison tables for each item are presented at the U.S. level in appendix D. Response error measures for all items are presented in table 3 (response variance items) on page 36, and table 4 (response bias items) on page 38, at the U.S. level. Summary measures for the population characteristics by subgroup are also given in these tables. Table E-6, in appendix E, shows which questions were used to determine the subgroups. Facsimiles of the questions asked in both the census and the reinterview are shown in appendix A. The census and the reinterview item numbers from the questionnaire are listed in parentheses following the item name in this chapter.

RESULTS FOR POPULATION CHARACTERISTICS WITH RESPONSE VARIANCE TYPE REINTERVIEWS

Several population items were repeated in the CRS just as they were asked in the census:

- Hispanic origin
- School enrollment
- Year of entry
- Employment—industry

These response variance type reinterviews produced indices in the low range for data on Hispanic origin and school enrollment. More moderate inconsistency was found between the two data sources for the information on year of entry and employment industry (table 4.1).

Hispanic Origin

(Census 7, Reinterview 7a, 7b)

A question on Spanish/ Hispanic origin was first asked in the 1970 census. It was asked of a 5-percent sample of the households. In the 1970 reinterview, a more detailed set of probing questions, a response bias type of reinterview, was conducted. The estimated proportion of persons reporting Hispanic origin in the 1970 census, 3.7 percent, was slightly less than the corresponding proportion in the reinterview, 4.0 percent. This bias was found to be significant at the 95-percent level of confidence.

Hispanic origin data, which received a response variance type reinterview in the 1980 CRS, exhibited a low level of response variability (L-fold = 13, table 4.1).

The Hispanic origin question was asked of everyone in the 1990 census; that is, it was a 100-percent item. For 1990, as noted in [15]¹, a space was added in this item for persons of "Other Spanish/ Hispanic" origin to specify their background. Examples of "Other Spanish/ Hispanic" origin groups were also added. This inquiry was reworded and instructions were expanded.

In the 1990 reinterview, the Hispanic origin question received a response variance type treatment; that is, the same basic question was asked as was asked in the census. The data from the 1990 CRS for Hispanic origin

¹Numbers in brackets [] refer to entries in the bibliography section.

Table 4.1. L-Fold Index of Inconsistency—Response Variance Type Reinterviews

Reinterview characteristic	1990		1980	
	L-fold index of inconsistency	90-percent confidence interval	L-fold index of inconsistency	90-percent confidence interval
Hispanic origin.	12.2	11.2 to 13.2	13.0	11.3 to 14.2
School enrollment ..	17.3	16.6 to 18.0	-	- -
Year of entry ¹	23.0	21.1 to 25.2	13.0	11.2 to 15.8
Employment—industry	32.6	31.6 to 33.7	-	- -

- Not applicable.

¹Shown for 10 categories in 1990 and 6 categories in 1980.

exhibited low levels of response variability. Four of the five response categories showed very low levels of inconsistency. Only the category “Yes, other Hispanic” displayed moderately high inconsistency.

Those people who reported “No, not Hispanic” in the census and then reported “Yes, other Hispanic” in the CRS contributed to this variability. In looking at the write-in responses for these people, almost one-third did not provide a write-in response. Of those who did provide a write-in response after indicating they were “Other Hispanic”, almost 96 percent reported an actual Spanish/ Hispanic group indicating they truly are of Hispanic descent. Why they would report “Not Hispanic” in the census is unexplained. On the other side, for those reporting “Yes, other Spanish/ Hispanic” in the census, then saying “No, not Spanish/ Hispanic” in the reinterview, of those who provided a write-in entry, 73 percent listed a Spanish/ Hispanic group and 27 percent gave a group that was not Spanish/ Hispanic. Again, there seems to be no plausible explanation for this reporting inconsistency.

These results are almost identical to those obtained from the 1980 Content Reinterview. This suggests that the reporting problems have not changed over the decade.

In the past, there has been some concern about non-response rates to the Hispanic origin question. The allocated response in the census, for those who did not respond to the item, was compared to the response reported in the CRS. There are 792 persons for whom this comparison can be made for Hispanic origin. Table 4.2 shows this cross-classification.

These results suggest that the allocation procedure is fairly accurate, especially at the No/ Yes level. The collapsed No/ Yes cross-classification is given in table 4.3.

At the No/ Yes level, it cannot be concluded that the census and the CRS distributions are different.

Table 4.2. CRS Versus Allocated Census Data for Hispanic Origin

Reinterview classification	Census classification (allocated)					
	Allo-cated-	No	Mex-ican	Puerto Rican	Cuban	Other
Reported	792	745	13	3	1	30
No (not Hispanic) .	742	730	4	3	1	4
Mexican	22	8	6	0	0	8
Puerto Rican	2	2	0	0	0	0
Cuban	2	1	0	0	0	1
Other	24	4	3	0	0	17

Table 4.3. CRS Versus Allocated Census Data for Hispanic Origin

Reinterview classification	Census classification (allocated)		
	Allocated	No	Yes
Reported	792	745	47
No (not Hispanic)	742	730	12
Yes	50	15	35

School Enrollment

(Census 11, Reinterview 10)

School enrollment, whether a person has attended school or college, public or private, just prior to the census, was consistently reported. Prior reinterview data is not available on this item. Collapsing these data to a “Yes” and “No” distribution yields consistently reported data. There is some inconsistency between the reporting of public versus private education.

There is an indication of bias in the “No/ Yes” distribution. “No, has not attended since February 1” is overstated in the census. The combined “Yes” categories are understated in the census. However, since these data were collected in a response variance type reinterview, it is unclear whether this is reporting bias or whether there may be some other reason. For example, the difference in the timing of the census and the CRS interviews could be a cause.

Year of Entry

(Census 10, Reinterview 9c)

Year of entry, asking when those born outside the United States came to the United States to stay, shows response variability in the moderate range. The L-fold index of inconsistency is 23. Year of entry for 1980-81 was the only response category for which the difference in the census and CRS distributions was statistically significant.

The same question was asked in 1980 and was reported with low response variability (L-fold = 13, table 4.1). Since there were only 6 possible response categories in 1980 and the 1990 item had 10 response choices, the increase in the level of response variance is likely attributable to the difference in the number and width (in years) of the response categories.

Employment—Industry

(Census 28c, Reinterview 35c)

The question on industry sector serves as a tool for obtaining accurate industry codes for the three most difficult industry groups (manufacturing, wholesale trade, and retail trade) when the entries to the kind of business or company name items are missing or incomplete.²

These data are reported with moderate inconsistency (I = 32.6 from table 3) between the census and the reinterview. The “Wholesale trade” category is highly inconsistent indicating respondents have a problem reporting these data. There is no measurable difference in the inconsistency of these data by sex or by race from the total distribution.

²[13]

RESULTS FOR POPULATION CHARACTERISTICS WITH RESPONSE BIAS TYPE REINTERVIEWS

Many population items were asked in the CRS using a probing sequence of questions aimed at making the census question more clear or gathering more supporting data for responses given. With these data it is then possible to measure response bias using the net difference rate. Population items reinterviewed for response bias were:

- Place of birth
- Military service
- Citizenship
- Race
- Ancestry
- Language usage
- Industry and occupation—class of worker
- Educational attainment
- Work experience in 1989
- Disability

The first four items were reported with low levels of inconsistency between the two sources (table 4.4). The remaining items had indexes of inconsistency in the more moderate range. One disability item on self-care limitations was highly inconsistent.

Some of the items were asked in the 1980 Content Reinterview. For each of these items the L-fold index of inconsistency between the two decades was comparable (table 4.4). The question on citizenship was also asked in the 1970 Reinterview with very similar results.

Table 4.4. L-Fold Indexes of Inconsistency—Response Bias Type Reinterviews

Characteristic	1990		1980	
	L-fold index of inconsistency	90-percent confidence interval	L-fold index of inconsistency	90-percent confidence interval
Place of birth	4.9	4.6 to 5.2	6.0	6.2 to 6.8
Military service	8.5	7.9 to 9.2	-	-
Citizenship	10.9	10.0 to 12.0	73.0	70.9 to 74.9
			¹ 13.0	¹ 12.0 to 14.8
Race	16.3	15.5 to 17.1	-	-
Ancestry ²	26.5	25.6 to 27.4	26.0	25.4 to 26.9
Language usage	26.9	25.6 to 28.3	25.0	23.2 to 26.5
Industry and occupation				
Class of worker	27.5	26.5 to 28.5	-	-
Educational attainment	32.3	31.7 to 32.9	35.0	30.8 to 39.0
Work experience in 1989	45.9	44.6 to 47.3	-	-
Disability	43.0	40.9 to 45.1	-	-
Work disability	45.7	42.4 to 49.3	-	-
Mobility limitation	47.1	44.2 to 50.2	-	-
Self-care limitation	73.6	69.5 to 78.0	-	-

- Not applicable.

¹ Edited data.

² 20 categories in 1980, 36 categories in 1990.

Place of Birth

(Census 8, Reinterview 8a, 8b, 8c)

As explained in [16], in the censuses of 1960, 1970, and 1980, place of birth was asked on the basis of the place of residence of the mother. Reinterview studies following the 1980 census revealed a strong tendency for respondents to report the actual state of occurrence of birth, even when instructed to report the mother’s residence. In the 1990 census, the instruction to respond in terms of the mother’s place of residence was deleted and the question simply read “In what U.S. State or foreign country was this person born?”

The data from the CRS questions which included an instruction “if born in a hospital, give location of hospital” indicate the census distribution across the 50 States and the District of Columbia, Puerto Rico, the outlying areas, Canada and Mexico are virtually identical. There is, overall, little inconsistency in the responses. The L-fold index of inconsistency is approximately 5 (table 4 and table 4.4). Thus, it appears the census responses accurately reflect the actual State or foreign country of birth. It should be noted that there was some evidence of clerical coding errors in the place of birth data in 1980. Automated coding was used in 1990. It is believed that eliminating this component of error contributed to the consistency of the data.

Military Service

(Census 17a, 17b, 17c, Reinterview 25a, 25b, 25c, 25d, 25e, 26)

The two 1980 questions on military service were revised for the 1990 census, and one additional question was included on the questionnaire. In both censuses, the items were carried on the sample questionnaires. The data on military service and veterans were expanded by the addition of a third veteran question to the 1990 census, total number of years of active-duty military service. This item, to be used with those on veteran status and period of service, was added to bring the census system of collecting veteran data into close conformity with the Department of Veterans Affairs (VA) system and to produce statistics more closely approximating the changing program needs and populations of the VA. In addition, the VA uses census data as baseline figures in preparing its estimates of the number of veterans for intercensal years by county.³

The first of the three military service questions was on veteran status (census question 17a, appendix A). The census asked all those age 15 and over about active-duty military service in only one question. The item was separated into parts in the reinterview. These separate reinterview questions ask individually about active-duty military service, military-related civilian service for females, and service in the military reserves or the National Guard. The reinterview inquiries were recoded and matched to the

³[12]

census question. The data between the census and the reinterview recode were very consistently reported (Index = 8.5, table 4). While males report these data very consistently, the same data for females are reported with moderate inconsistency (table 4).

For the whole distribution, there is substantial bias in the category "Yes, now on active duty" which is overreported in the census (table 4). Further analysis revealed that persons contributing to this situation have been in the military service and gave dates in the reinterview ranging between 1943 and 1988 for their ending date for their most recent period of service. This indicates there is some error in the census. Not surprisingly, there is a moderate amount of bias in the category "Yes, on active duty in past, but not now," as it was underreported in the census. These same people contributed to this situation (table 4). This overreporting of the "Yes, now on active duty" category has been recognized by the Census Bureau. In the edit program, additional information from the census questionnaire is used to move these respondents to their proper category. As shown in table E.9, while the unedited data had bias in the first two categories, there is no bias at all in the edited data. This indicates that the census edits correct the bias and that the edited data should be used for this item (table E.10).

The second military service question was about the period of active-duty military service. It was asked of everyone who reported active duty, either currently or in the past. In the census, a respondent could select as many specific periods in which he/ she had served. On average, each respondent selected two periods of service. In the reinterview, the respondent was asked for specific dates of active-duty military service. These dates were later recoded to the same periods as the census. Comparisons were made for each of the eight categories. These comparisons (tables D.17 through D.24) are limited to veterans (those who reported active-duty military service in the past).

All periods of wartime service are reported very consistently (table 4). World War I service is excluded because there was insufficient data to calculate response error measures. Periods of service in peacetime are reported with moderate inconsistency between the census and the reinterview recodes. The one exception is service in the most recent period, "September 1980 or later," which was reported with low inconsistency. The final category, "Any other time," is reported very inconsistently between the two sources indicating a reporting problem with this category.

Each of the seven categories (World War I was excluded from the analysis) shows some bias in the census distribution. As shown in table 4.5, there is evidence that the census understates the "Yes" category for all service periods. This is based on the reporting of actual dates of service (month, day, and year) in the reinterview. The peacetime periods appear to be subject to relatively large reporting bias.

Table 4.5. Military Service

Active duty was served	Percent in "yes" class		Net difference rate	90-percent confidence interval
	Census	CRS		
September 1980 or later ...	6.0	7.6	* -1.6	-2.1 to -1.0
May 1975 to August 1980 .	7.1	10.7	* -3.6	-4.3 to -2.9
Vietnam era	32.1	34.1	* -2.0	-2.6 to -1.3
February 1955 to July 1964	17.0	28.9	* -11.9	-13.2 to -10.6
Korean conflict	20.1	21.3	* -1.2	-1.8 to -0.6
During World War II	35.4	36.1	* -0.6	-1.1 to -0.2
Any other time	1.3	9.9	* -8.6	-9.7 to -7.4

* Indicates significance at the 10-percent level.

The third military service question, the new item, asked respondents who have current or past active-duty military service about their total number of years of active-duty military service. This was collected with an open-ended response in the census. In the reinterview the respondent was asked for specific dates of active-duty military service. These dates were later recoded to reflect the number of years of service. The numbers in the census and the recoded years of service from the reinterview were collapsed to five meaningful categories which are shown in table D-25b, appendix D. Even collapsed to five categories, there is moderate inconsistency between the census and reinterview in reporting the number of years of service (L-fold = 34.8, table 4). There is evidence that the two largest categories are underreported in the census while "3 to 10" years of service is overreported. There is no evidence of any difference between the distributions for the smallest numbers of years of service, "less than 2" and exactly "2" (table 4).

Looking at the full distribution of years reported, table D25a, most of the differences were within one year. It was thought that the difference might reflect a tendency for persons to round up when answering the open-ended census question. However, a closer look at the data showed that about half of the time this was true and the other half of the time, the opposite was true.

Citizenship

(Census 9, Reinterview 9a, 9b)

In 1980, citizenship was asked of foreign-born persons only. However, many people born in the United States erroneously answered the question, making for very inconsistent data since there were no appropriate categories for them to choose. When the data were edited and these native-born people were removed, the remaining data for foreign-born persons were reported quite accurately (table 4.4).

For 1990, the universe for the citizenship question was revised to include all persons rather than only the foreign born. As shown in table 4, these data are reported consistently. The L-fold index of inconsistency is about 11. The overall consistency of reporting is about the same by

sex and race. Hispanic origin persons report slightly more inconsistently than non-Hispanic persons. In general, the distribution of the persons across the five categories are about the same in the census and CRS. Although the net difference rates shown in table 4 do suggest a slight overreporting of the "Yes, U.S. citizen by naturalization" category, this may be a problem with the CRS data.

Race

(Census 4, Reinterview 5a, 5b)

The race question is asked of all persons in the census. The concept of race as used by the Census Bureau reflects self-identification by respondents; it does not denote any clear-cut scientific definition of biological stock. The data represent self-classification by people according to the race with which they identify themselves.⁴

The 1980 census race item underwent a number of modifications for the 1990 census. A response category for "Other API" (Asian or Pacific Islander) was added along with a space for respondents to write in their "Other API" subgroup. In addition, the spanner "Asian or Pacific Islander (API)" was placed over the API response categories. New instructions were added and others expanded, and the term "Race" was used as a label.⁵

Race was not evaluated in the 1970 nor the 1980 CRS. In the 1990 Reinterview, race was obtained using somewhat more detailed questions. Additional categories were added to the list of Asian or Pacific Islander groups. "Other API" and "Other race" persons could list more than one group, but, if they gave multiple responses, they were asked with which group they most closely identified. For American Indians, additional inquiries were made regarding their enrolled or principal tribal affiliation.

For initial analysis, the race data were collapsed into the six major categories shown in table 4.6. Similar data are shown in table D-6, appendix D for the 16-category race item.

As table 4.7 shows, "White" is underreported in the census (from 0.3 to 0.7 percentage points) while "Other" race is overreported (from 0.4 to 0.7 percentage points). See also table 4, item P4.

Table 4.6 shows that 349 persons reported "Other race" in the census and "White" in the CRS, while 229 persons reported "Other race" in the CRS and "White" in the census. The "Other race" category was collected as a write-in entry in both the census and CRS. Analysis of these write-in entries indicates that the majority of persons in these two inconsistent categories were of Hispanic origin. It is apparent that Hispanics have difficulty in classifying themselves into the race categories presented.

The data for race were analyzed for those who said they were Hispanic in the census and those who reported themselves as non-Hispanic. The non-Hispanics represent over 94 percent of the total population and the race data

Table 4.6. Census Question P4—What Is Your Race?—Unedited Data: 1990 Census

Reinterview classification	Census classification						
	Total re-reported	1	2	3	4	5	6
Total reported.....	24,539	20,919	2,375	118	454	81	592
Item responses							
1. White	21,034	20,564	30	43	12	36	349
2. Black or Negro	2,406	59	2,306	2	2	3	34
3. Indian/ Eskimo/ Aleut ..	116	37	5	69	0	0	5 4.
4. Asian or Pacific Islander	449	24	0	0	410	6	9
5. Other API	80	6	7	0	21	14	32
6. Other race	454	229	27	4	9	22	163

Table 4.7. Response Error Measures for Race

Race categories	Net difference rate	Index of inconsistency	90-percent confidence interval
White	* -0.5	13.5	12.8 to -14.3
Black	-0.1	3.9	3.5 to 4.4
Indian/ Eskimo/ Aleut	0.0	41.2	34.9 to 48.7
Asian or Pacific Islander ..	0.0	9.4	7.8 to 11.2
Other API	0.0	82.9	71.9 to 95.6
Other race	* 0.6	70.3	66.1 to 74.8
L-fold		15.9	15.1 to 16.8

* Indicates significance at the 10-percent level.

for the non-Hispanics contained no measurable bias. Remember that the race data for all people showed significant bias in the categories "White" and "Other Race." Looking at the same race data for just Hispanics, table 4.8, there is significant bias in all categories except API's. This suggests that the Hispanic population are contributing most of the bias in the race data in the census.

If the race item was not answered by someone in the census, the person's race was allocated. The allocated census response was compared to the response reported in the CRS. There are 371 persons for whom this comparison can be made for race. Table 4.9 shows this cross-classification.

About two-thirds of the allocated responses are consistent with the CRS responses. There does, however, seem to be a tendency to allocate "Other race" proportionately

Table 4.8. Net Difference Race for Race

Race classification	Non-Hispanic	Hispanic	Total population
White	0.1	* -10.4	* -0.5
Black	0.1	* -3.5	-0.1
Indian/ Eskimo/ Aleut	0.0	* 0.7	0.0
Asian or Pacific Islander.....	-0.1	-0.4	0.0
Other API	0.0	* 2.4	0.0
Other race	-0.1	* 11.2	* 0.6

* Indicates significance at the 10-percent level.

⁴[15]
⁵[15]

Table 4.9. Allocated Census Data for Race

Reinterview classification	Census classification (allocated)					
	Total allocated	1	2	3	4	5
Total reported	371	187	39	4	15	126
1. White	262	167	6	2	6	81
2. Black or Negro	34	1	27	0	1	5
3. Indian/ Eskimo/ Aleut	5	1	0	2	0	2
4. Asian or Pacific Islander	9	1	0	0	5	3
5. Other	61	17	6	0	3	35

more in the census than is consistent with the CRS responses; that is, 126 cases in the census versus 61 in the CRS.

Ancestry

(Census 13, Reinterview 14a, 14b, 15a, 15b, 16, 17)

As stated in [15], this item, asked of a sample of persons, is based on self-identification and is open-ended (respondents write in their answers). Ancestry refers to a 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. Persons can report their ancestry regardless of the number of generations removed from their ancestors’ places of origin. Furthermore, responses to the ancestry question reflect the ethnic group(s) with which persons identify and not necessarily the degree of attachment persons have with the particular group(s).

According to the instruction guide accompanying the census questionnaire, persons who have more than one origin and cannot identify with a single ancestry group may report two ancestry groups (for example, German-Irish). Instructions also specify that a religious group should not be reported as a person’s ancestry. Ancestry (ethnicity)

and race are viewed as separate concepts by the Census Bureau; therefore, persons reporting a particular ancestry may be of any race.⁶

These data are difficult to analyze because both the census and the CRS allowed multiple responses. For initial analysis, the data for all respondents who provided a single ancestry in the census and a single ancestry in the reinterview were compared. Their responses were collapsed to the 36 categories usually used in census publications and are shown in table D-10, appendix D. These data for single responses are reported with moderate inconsistency (L-fold index = 26.5). Native born persons also report with moderate inconsistency (L-fold index = 29.0). Foreign born people, however, report very consistently in this situation (L-fold index = 7.5, table 4).

Data are shown in tables D-11 and D-12 for the first ancestry reported in both the census and the reinterview. Table D-11 shows the 36 categories usually used in census publications while table D-12 is collapsed to the 34 largest ancestry groups reported in the census.

Table 4.10 examines additional data on the consistency with which persons report ancestry in the census and CRS for both single and multiple responses. The consistency of reporting is shown for those persons reporting a single ancestry both times, those reporting two in the census and one in the CRS and vice-versa, and those reporting multiple ancestries in the census and CRS. Data is shown first for total persons, then separately for the native born and the foreign born. Overall, at least one census response matches one CRS response for 75 percent of all persons. The corresponding figure for foreign born persons (79 percent) is slightly higher than that for native born persons (75 percent). The difference between native and foreign born persons is somewhat larger when only a single response is given (67 versus 79 percent).

⁶[15]

Table 4.10. Persons Reporting Ancestry

CRS response	Census response	Total persons		Native born		Foreign born	
		Number matched	Percent matched	Number matched	Percent matched	Number matched	Percent matched
Single	Single	7,515	² 68	6,667	² 67	848	² 79
Single	Two	1,277	³ 65	1,265	³ 65	12	³ 83
Multiple ¹	Single	2,453	⁴ 64	2,380	⁴ 64	73	⁴ 77
Multiple ¹	Two	3,952	⁵ 94	3,934	⁵ 94	18	⁵ 100
		3,952	⁶ 55	3,934	⁶ 55	18	⁶ 78
Total		15,197	⁷75	14,246	⁷75	951	⁷79

¹CRS could have up to three responses.
²Single response matches.
³Single CRS response matches one of two census responses.
⁴Single census response matches one of CRS multiple responses.
⁵One of census responses matches one of CRS responses.
⁶Both of the census responses match to two of the CRS responses.
⁷At least one census response matches one CRS response.

Language Usage

(Census 15a, 15b, 15c, Reinterview 18, 19, 20, 21, 22, 23, 24)

As explained in [16], data from the language question are used to identify areas with large numbers of persons with limited English-speaking ability as well as concentrations of speakers of a particular non-English language. A three part question, similar to that used in the 1980 census, was asked in the 1990 census.

Analysis of the CRS data indicate that for the first part of the question, "Does this person speak a language other than English at home?", the census data are only moderately inconsistent. Table 4.11 shows that, for all persons, the L-fold index of inconsistency is about 27. This level is comparable to that observed in the 1980 CRS. Analysis of the consistency of responses to this part of the question by origin, shows that persons reported as Hispanic origin in the census were somewhat more consistent in their reporting than non-Hispanics, (27.9 versus 39.2).

Among persons categorized as "No" in the census and "Yes" in the CRS to this part of the question, the CRS data indicate that virtually all these persons reported that they learned to speak the language reported in the CRS either at home or in school and that they now speak the language at home. However, virtually all of these persons also said in the CRS that they spoke this language at home "Less often than English" or "Almost never speak" the language.

Conversely, among persons categorized as "Yes" in the census and "No" in the CRS, the CRS data indicate that almost half of the persons older than 15 indicated that a language other than English was spoken in their home as a child, even though they reported that they themselves did not speak the language. The reason they were in the "Yes" category in the census is unknown.

These patterns of response (no/ yes, yes/ no) occurred about equally in the census/ CRS comparison and illustrate that the responses to this question are apparently subject to various interpretations by respondents.

Answers to the question "What is this language?" (for those who responded "Yes" to the first part of the question in the census and CRS) is very consistently reported (L-fold index = 5.2). Almost half the respondents indicated the language spoken was Spanish (table D-15).

The CRS data for the last part of the question, "How well does this person speak English?", (also asked of those who responded "Yes" to the first part of the

question), indicate a high level of inconsistency in responses (L-fold index = 60.3) and a tendency to overreport the "Very well" and "Well" categories in the census as compared to the CRS (table 4). This tendency is present for both Hispanics and non-Hispanics.

The CRS provides some additional data on the inconsistent response patterns for this part of the question. Of particular interest are the persons who were categorized as "Very well" or "Well" in the census versus "Not well" or "Not at all" in the CRS. A very high proportion of these persons (83 percent) indicated in the CRS that they spoke the (other) language at home "All the time" or "More often than English." These data indicate that this part of the question is apparently subject to varying interpretations by respondents who report for themselves as well as for others in the household in the census.

Industry and Occupation—Class of Worker

(Census 30, Reinterview 35b, 35c, 35d)

Each person in the census who had worked anytime since 1985 was asked to describe their most recent job activity and to select their class of work. There was a slight change in this question from the 1980 version. The category "Employee of private company, business, or individual, for wages, salary, or commissions" was split into two categories in 1990: one for employees of private-for-profit employers and the other for employees of private not-for-profit employers.

Initially, census responses were compared to the reinterview responses for this item. The data were reported with moderate inconsistency. Three of the eight categories showed some difference in the percent in class (table 4). There was a small difference in the first category, "Employee of PRIVATE-FOR-PROFIT company or business or of an individual, for wages, salary, or commissions," which was overreported in the census. This was one of the new categories. Two other categories, "State government employees" and "SELF-EMPLOYED in own NOT INCORPORATED business, professional practice, or farm," were underreported in the census.

The class of worker responses given in the reinterview were recoded using additional information. The kind of business or industry (reinterview 35b, appendix A) and the employment sector (reinterview 35c, appendix A) were used in producing the recoded class of worker. This was compared to the census response, table D-30. Again, there was moderate inconsistency between the two data sources. However, there was a change in the bias pattern using the recoded data (table 4). There was still evidence of overreporting in the category "Employee of a PRIVATE-FOR-PROFIT company or business or of an individual, for wages, salary, or commissions" and underreporting in the "SELF-EMPLOYED in own NOT INCORPORATED business, professional practice, or farm." The difference comes in the category "State GOVERNMENT employee" which was highly underreported in the census but now shows no

Table 4.11. Indexes of Inconsistency: Speak a Language Other Than English at Home?

Speak a language other than English at home (yes or no)	Index of inconsistency	90-percent confidence interval
Total persons	26.9	25.6 to 28.3
Hispanic origin	27.9	24.5 to 31.7
Non-Hispanic origin	39.2	37.1 to 41.4

bias after the recode. However, the category “Local GOVERNMENT employee” (city, county, etc.) shows evidence of being underreported in the census after the recodes are applied.

Educational Attainment

(Census 12, Reinterview 10, 11, 12, 13a, 13b, 13c)

The educational attainment question used in the 1990 census was quite different from that used in the 1980 census. The 1980 census version of the question consisted of two items: what was the highest grade the respondent had attended, and did the respondent complete the highest grade attended? For the 1990 census, major changes were made to the question to measure educational attainment. As explained in [17], first, one question was asked rather than two. Second, the question asked how much school the respondent had completed. Third, response choices were provided for degrees received, in addition to grades completed. Fourth, grade categories were collapsed at the elementary level. Response choices were provided for grades 1-4 and 5-8. Fifth, the response choice “Never attended school” was changed to “No school completed” and was placed at the beginning of the continuum, rather than at the end. The CRS included questions on highest grade attended, whether or not the highest grade attended was finished and a question on how much school was completed (including degree received).

The response error measures for the 17 response categories of the educational attainment question are provided in table 4. While the educational attainment data are collected using 17 categories, only 7 categories are used in many census publications and they are shown for persons 18 or years older in many cases. Table 4.12 provides the net difference rates for the seven publication level categories for the age group 18 years or older.

These data indicate that for the publication level categories, the census and CRS distributions are different to some extent. In particular, the “Elementary, 0-8 years,” and “Associate degree” categories have relatively large net difference rates. Smaller, but significant, net difference rates are present for the all other categories but “Graduate degree.”

Table 4.12. Net Difference Rates for Educational Attainment for Persons 18 and Over

Educational attainment	Percent in Class		Net difference rate	90-percent confidence interval
	Census	CRS		
Elementary, 0 to 8 years ...	6.1	6.6	* -0.5	-0.7 to -0.2
High school, 1 to 4 years, no diploma	13.7	13.2	* 0.4	0.1 to 0.8
High school diploma	33.4	34.8	* -1.4	-1.8 to -0.9
Some college, no degree ..	20.5	19.9	* 0.7	0.3 to 1.1
Associate degree	5.7	4.3	* 1.3	1.1 to 1.6
Bachelor degree	13.6	14.1	* -0.5	-0.7 to -0.2
Graduate degree	7.0	7.1	-0.2	-0.3 to 0.0

* Indicates significance at the 10-percent level.

Given the differences in the census and CRS questions and in particular the fact that the CRS interviews were conducted some months after census enumeration, it is reasonable to expect some response differences due to these factors. For example, persons enrolled in high school in April may have felt they completed the 12th grade and did not yet have a diploma, but by the time of the CRS interview, they had a diploma and reported it as such (even though the CRS questions use “As of April 1, 1990,” as a reference period). Such factors could explain much of the Census/ CRS difference in this category. In addition, it was necessary to recode the CRS responses to the corresponding census categories since the same questions were not used in census and CRS. Some differences may have been introduced due to the recoding procedure.

Other differences, such as the large proportion of associate degree holders in census who reported “Some college, no degree” in the CRS, may be due to the respondent’s inability to correctly categorize degree training below the bachelor’s level.

Work Experience in 1989

Worked in 1989 (Census 31a, Reinterview 36, 37)

Weeks worked in 1989 (Census 31b, Reinterview 38a)

Usual hours worked per week in 1989 (Census 31c, Reinterview 38b)

As noted in [11], these three items together constitute the battery of questions on work experience. The worked last year question screens persons who had worked during the previous year to answer the weeks worked and usual hours worked questions.

The census asked if the respondent worked in 1989, eliciting a simple “Yes” or “No” response. The reinterview asked generally this same question and the responses, compared to the census, were moderately inconsistent (L-fold = 45.9, table 4). In addition to asking about working in 1989, the reinterview probed as to whether the respondent had done any temporary, part-time, or seasonal work even for a few days during 1989. The reinterview responses were recoded taking the additional information into account, and compared to the census responses. There was a moderate amount of inconsistency between the two. More interesting is the bias that is shown to be present in the census when the data are compared to the reinterview recode which had a probe for temporary, part-time or seasonal work (tables E-7 and E-8 in appendix E). There is evidence that in the census the “Yes” category is underreported. In other words, the census understates the number of people who worked in 1989 (table 4). This same bias exists by sex and by race.

The item on weeks worked last year and the one on usual hours worked serve, among other uses, as qualifiers for the data from income and earnings questions. Since all income-related information in the census refers to the calendar year before the census is taken, the information

on weeks worked and usual hours worked per week in the previous year is necessary to estimate weekly and hourly earnings and to take into account differences in weeks and hours worked when analyzing income and earnings data for various subgroups of the population, such as by race or sex. These items also are used to assign or allocate responses to missing income and earnings questions.⁷

The number of weeks worked in 1989 is very inconsistently reported between the census and the reinterview (L-fold = 56.8), indicating respondents experience difficulty answering this item (table 4). The distribution of weeks worked is significantly different between the census and CRS for all categories. A possible explanation could be in the way vacation and sick leave are reported. The census includes a footnote on the question saying to include vacation, paid sick leave, and military service. Perhaps respondents missed this note. In the reinterview, the reference to including all this leave is read to the respondent as part of the question.

The usual number of hours worked was reported as a write-in number in both the census and the reinterview. For analysis purposes, the data were grouped into categories. Using three categories: "1 to 14 hours," "15 to 34 hours," and "35 hours or more," there was moderate inconsistency in reporting between the census and the reinterview. The percent of respondents in these categories between the two sources was the same (table 4). Collapsing to just two categories: "1 to 34 hours," and "35 hours or more," it is not surprising that the data are a little more consistent, although they are still in the moderately inconsistent range (also table 4).

Work Disability

(Census 18a, 18b, Reinterview 33a, 33b).

The 1990 census questions on disability covered three areas: work disability, mobility limitation, and self-care limitation. Persons 15 years or older are identified as having a work disability if they have a health condition that has lasted 6 months or more that limits or prevents them from working at a job. For the reinterview, the question was asked of persons ages 15 to 65. Table 4 provides the response error measures for the first part of this question (18a) asking whether the condition limits the amount or kind of work this person can do at a job. The index of inconsistency for this question is in the moderate range (I= 43). There is evidence of a fairly large difference in the Yes/No distribution between the census and CRS, 8.3 percent versus 10.3 percent in the "Yes" category, respectively. These results are similar for both males and females.

In the census persons were also asked if they have a condition which *prevents* them from working at a job regardless of their response to the first part of the question. Table 4.13 provides data on the responses to both parts of this question in the census and CRS. These data

Table 4.13. **Distribution of Responses to Census Questions 18a and 18b and CRS Questions 33a and 33b on Disability**

CRS		Limits (18a)				Total	Per-cent
		Yes		No			
		Prevents (18b)					
Limits ¹ (33a)	Prevents (33b)	Yes	No	Yes	No	Total	Per-cent
		Yes	Yes	535	85			11	209	840	5.6
	No	65	175	0	461	701	4.6
No	Total	177	215	12	13,174	13,578	89.8
	Percent	777	475	23	13,844	15,119	100.0
		5.1	3.1	0.2	91.6	100.0	

¹In the CRS, persons responding "No" to 33a were not asked 33b. No skip pattern was included in the census question.

indicate that for the universe of persons who reported they had a limiting condition, in both the census and CRS their responses to the "prevents" part of the question were still moderately inconsistent. The index of inconsistency for this universe is about 41. The percent in class figures for this universe are 72.1 percent and 69.8 percent for the census and CRS, respectively. There is no evidence of a statistically significant difference in these figures.

There remain about 7 percent of the persons that are inconsistent based on the responses to both parts of this question (18a= No, 18b= No and 33b= Yes or No, or 18a= Yes and 33a= No). This level of inconsistency has been observed in other evaluations of these questions, particularly in specially designed content tests conducted prior to the 1980 and 1990 censuses to develop the disability questions.

Mobility Limitations

(Census 19a, Reinterview 34a)

This question also suffers from a moderately high level of inconsistency (I= 47.1), but there is no evidence that the census and CRS distributions differ. The level of inconsistency is about the same by sex and age (15-65 and 66 or more). There is no evidence of differences in the census and CRS distributions for these groups as well.

Table 4.14 examines additional data collected in the CRS for the persons whose census/ CRS responses to the mobility limitation question were inconsistent. The data in this table come from the CRS question concerning the need for an aid to help get around and the duration of use of such an aid.

The patterns of reporting to this question are remarkably similar for both inconsistent response patterns to the mobility limitation question, (No/ Yes) and Yes/ No). These data seem to illustrate the rather subjective nature of responses to this question both among persons that require aids to get around, and those who do not.

⁷[11]

Table 4.14. Additional CRS Data for Mobility Limitation Question: Inconsistent Response Patterns

Census/ CRS response to mobility limitation question	Number of persons	CRS question ¹			
		29A (needs aid)		29B (duration, 6 months or more)	
		Yes	No	Yes	No
Census (19A) = No CRS (34A) = Yes . . .	336	85	251	72	13
Census (19A) = Yes CRS (34A) = No	334	71	262	61	10

¹ See appendix A for the CRS questions.

The first time the census included questions on mobility limitations and self-care limitations was in 1990.

Self Care Limitation
(Census 19b, Reinterview 34b)

The level of inconsistency in this question is quite high (I= 73.6) and there is an indication of a substantial difference between the census and CRS distributions. The percent in class in the census is about twice that in the CRS (4.2 percent versus 2.1 percent) for positive responses. These same results are also found by sex and age. The difference for persons of age 66 or more, 19.2 percent versus 5.1 percent, is particularly troublesome as one might expect more consistent reporting for this group. It is difficult to explain the larger proportion of persons who reported a self-care limitation in the census. As noted by McNeil (1993), the 1990 question on mobility and self-care limitations are subject to the criticism that while they ask whether a condition makes an activity difficult, there is no mention of environmental factors that may also affect the response to these questions. Perhaps such factors are responsible for the difference.

CHAPTER 5.

Survey Design and Operations

SAMPLE SELECTION

The CRS is designed to measure response error associated with selected population and housing items. The objective is to measure census data quality using simple response variance and response bias associated with data items which are reinterviewed.

A single stage systematic sampling scheme was used for the CRS. To obtain a final sample of 12,800 occupied units, an initial sample of 15,500 housing units was selected from the census address file. This number of households is comparable to the designated sample sizes of the 1970 CRS and the 1980 CRS. The CRS sample was restricted to sample (long form) census households. Census households responding by mail and enumerator return households were reinterviewed.

When the CRS sample was selected from the Census Address Control File (ACF), enumeration had not yet taken place, so occupancy status of the units was not known. Units enumerated as vacant in the census were later excluded from the CRS. Also, housing units deleted from the ACF during enumeration were eliminated from the CRS sample. Original sample selection from the ACF yielded 15,417 housing units. 12,891 reinterview sample cases were sent to the field after elimination of vacants and deletes (nonexistent units, nonresidential units, and so forth).

FIELD OPERATIONS AND CLERICAL PROCESSING

All initial reinterviews were conducted using Computer Assisted Telephone Interviewing (CATI) from September through December 1990. The results of the CRS are used as the standard by which the quality of census responses are measured; therefore, it is essential that the reinterview results are of the highest quality. Increased data quality is associated with the CATI system due to a reduction in interviewer bias. In the CATI interview, the computer controls skip patterns and the supervisor can monitor both the audio portion of the interview on the telephone and the video portion on a screen. Only experienced CATI interviewers were used to conduct the reinterviews.

For the 1990 CRS, introductory letters were mailed to the sample housing units prior to the start of the telephone interviews. Households were contacted by CATI until complete information for each person and the housing unit was obtained (or a specified number of failures to reach the sample unit occurred).

Characteristics of each person age 15 and over were obtained by self-response, when possible. A proxy respondent was defined as any adult household member who was knowledgeable of the sampled person's characteristics. A proxy respondent could be used to obtain population data in the following situations:

1. Three call contacts failed to obtain self-response for an individual.
2. The sample person was mentally or physically incapable of responding.
3. The sample person was temporarily absent, hospitalized, in a nursing home, or institutionalized for the entire interview period.
4. The person was under 15 years of age.

Overall, 75 percent of the persons in the survey reporting data were reported by self-response. The remaining 25 percent of the data collected was obtained from proxy respondents. Nineteen percent of the population were under 15 years of age and required a proxy respondent. The other proxy respondents, 6 percent of the reporting population, were reporting for persons who could not be reached for self-response during the time period of the survey.

There were differences between the two modes of data collection, CATI and personal visit (PV), for self versus proxy response. CATI had a higher self-response rate, 76.7 percent versus 64.7 percent self-response for personal visit. See table 5-1.

Population data were not collected for any person who no longer lived at the sample unit (including college students, divorced spouses, and children who no longer resided at the sample address). For the housing data, the respondents included the householder, his or her spouse, or any adult household member in whose name the home was owned, being bought, or rented.

Table 5.1. Response Rates for Self-Response Versus Proxy

	CATI	PV	Total
Self	16,829 (76.7)	2,666 (64.7)	19,495 (74.8)
Proxy	5,105 (23.3)	1,454 (35.3)	6,559 (25.2)
Total	21,934 (100.0)	4,120 (100.0)	26,054 (100.0)

For purposes of the CATI interview, the term "contact" designated a call which resulted in an actual contact with at least one of the adult persons listed on the census roster for the sampled housing unit. The following guidelines were issued for CRS:

1. After four "no-contact dialings" at various time periods to the sampled household, Directory Assistance was called to verify the original number or obtain a new number.
2. If Directory Assistance provided a new number, the new number was called seven times until a contact was made. After seven no-contact calls, the case was sent for personal visit followup.
3. If Directory Assistance did not provide a new number for any of the persons on the roster, CATI continued calling the original number three additional times (for a total of seven calls). After the seventh no-contact, the case was sent to field for personal visit followup.

Experienced current survey interviewers from the census regional offices were used to conduct the personal visit reinterviews. The census household roster and telephone number were obtained to aid the CATI interviewers and the field staff conducting personal visit interviews. This census household roster included the census person number which was extremely valuable in linking the census and reinterview data for identical persons. The reinterviews were conducted independently of the census enumeration. That is, the reinterviewer did not know how the sample household had answered the various questions on the census questionnaire, even though the reinterviewer

had the sample household roster. When there were differences between the two sources, census and reinterview, no reconciliation was done.

Movers were not followed up for the reinterview. Most whole household movers were verified by personal visit. No reinterview data were collected for individual movers (persons) within a sample household.

The average reinterview took about 23 minutes per household to conduct. The minimum interview was estimated to be 13 minutes and the maximum, 42 minutes.

The CATI system edits data for completeness as the interview is being conducted. Open-ended responses were coded clerically, keyed, and merged into the CATI file. Personal visit questionnaires were edited and reviewed for completeness by supervisors in the Census Regional Offices. At the conclusion of the interviewing period, all of the personal visit questionnaires were sent to the Decennial Processing Office (DPO) in Jacksonville, Florida. Open-ended questions were coded directly on the questionnaire. Personal visit forms were then sent to the DPO in Jeffersonville, Indiana, where they were keyed. Quality assurance procedures were integral parts of all operations.

COMPUTER PROCESSING

The CATI file and the keyed personal visit data were combined into one file of CRS data. This was matched with the unedited census file. All of the 12,891 sample housing units were matched. However, 19 of these housing units were eliminated from the CRS sample because 18 of them had been converted to vacants in the census and 1 was deleted during census processing. Therefore, the total sample size on which the housing information in this report is based is 12,872.

CHAPTER 6. Data Limitations

The summary measures of response error presented in this report are subject to a number of limitations.

SAMPLING VARIABILITY

The data presented here are shown as numbers of sample housing units and sample persons, not as inflated national estimates. The sample was selected using equal probability methods so that each sample housing unit had the same weight. The measures used in this report are subject to sampling variability since they are based on sample data. A 90-percent confidence interval accompanies the measures of response error computed from these data.

SOURCE OF RESPONSE ERROR

This report concentrates on comparisons with census data before consistency edits and imputations for missing data were made as part of the computer processing operations. Thus, the response error measures reflect mainly errors which occurred during the field data-collection process. Edited census data, reflecting computer edits and imputations, are available and were analyzed. There was very little difference between the net difference rates and the indexes of inconsistency for the unedited or edited census data. This indicates that at high levels of geography, there was not much additional error which occurred due to the edit and allocation procedures.

NONINTERVIEWS

Initially, an oversample was drawn so that housing units vacant in the census could be eliminated from the sample. A sample of 12,891 housing units was sent to be interviewed. Of the interviews returned, 83.1 percent were completed. The refusal rate was 4.5 percent. In addition, 7.2 percent of the housing units had moved since the census and 1.0 percent were vacant at the time of the reinterview. In the "Other" category, 4.1 percent represented housing units which had language barriers, household members who were ill, hospitalized or temporarily absent, deceased and so forth.

Table 6-1 shows this information for the whole sample and separately for those housing units interviewed by CATI and those whose interviews were conducted by personal visit. As might be expected, many of the rates differ by source. All cases were sent to CATI first and only went to

Table 6.1. Results of Data Collection Operations for Sample Housing Units

Result—Housing Units	Number of housing units	Percent
Total.....	12,872	100.0
Interviews	10,698	83.1
Complete.....	10,224	79.4
Partial.....	474	3.7
Refusals	576	4.5
Movers.....	922	7.2
Vacants.....	123	1.0
Other noninterviews ²	553	4.1
CATI—Total	9,791	100.0
Interviews	8,857	90.4
Complete.....	8,439	86.2
Partial.....	418	4.2
Refusals	483	5.0
Movers.....	142	1.5
Vacants.....	0	0.0
Other noninterviews ²	309	3.1
Personal visit—total	3,081	100.0
Interviews	1,841	59.8
Complete.....	1,785	58.0
Partial.....	56	1.8
Refusals	93	3.0
Movers.....	780	25.3
Vacants.....	123	4.0
Other noninterviews ²	244	7.9

¹12,891 were sent to the field, but 19 sample units were eliminated because they were deleted from the census.

²Housing units which had language barriers, household members who were ill, hospitalized or temporarily absent, deceased, and so forth.

personal visit if the household could not be reached by telephone or if the CATI respondent requested a PV interview. Most whole household movers had to be field verified as did the vacants. Movers were not followed for this survey.

Approximately 91 percent of the persons in the CATI assigned housing units were interviewed. Another 1.5 percent of the persons refused their individual interview, 3.7 percent did not complete their interview, and 4.1 percent of the individual people in the household had moved, even though their household was still living there. See table 6-2.

MATCHING

In the past, matching CRS households and persons back to the census has been a problem which has sometimes caused data limitations. Efforts were made in

Table 6.2. Results of CATI Operations for Sample Persons¹

	Number of persons	Percent
CATI—Sample persons	22,788	100.0
Complete interview	20,649	90.6
Incomplete interview	849	3.7
Refused interview	336	1.5
Movers	944	4.1
Other	10	0.0

¹Only available for sample persons whose data were collected by CATI.

planning this evaluation to keep matching problems to a minimum. The housing unit sample was selected from the ACF (Address Control File) making it possible to track a housing unit through the census process. Then, names of the census occupants of the sample units and their corresponding person numbers on the household roster were keyed and maintained on both CATI and personal visit questionnaires. Using this information, all housing units were matched back to the census. Because of the method of sample selection, erroneous and questionable matches are not a problem for this survey.

There were a small number of matching problems with the person data. They are detailed in table 6-3. About 3,000 persons on the input file were not included on the CRS file, in small part due to a problem with the CATI system. These are the only cases in which actual data were lost. The major part of the nonmatches were persons for whom no data were collected in the CRS. They include household refusals, whole household movers, households where the occupants were absent, ill, or hospitalized for the duration of the survey. Also included were some housing units which CATI should have transferred to personal visit for interviewing but did not, and some cases which had invalid input and could not be processed for interview.

A small number of deletions had to be made to the CRS person file related to housing units deleted from the sample because they were converted to vacants in the census. Also, a duplicate person and several housing units that had keying errors were deleted.

When this CRS person file was matched to the census file, there were 60 people who did not match. These were mainly cases where the person was erroneously included on the input file. The name was available on the census questionnaire, but the person was not data defined (not sufficient data to be counted as a person). Therefore, there was no census information to which the CRS data could be matched.

TIMING

The CRS was conducted immediately following the completion of the decennial census field work. This was more than 5 months after the first census data were

Table 6.3. Person Matches

Number of persons on input file given to field for interviewing	32,839	
Number of persons on original CRS file	29,749	
Difference		3,090
CATI error on "next person" number—data not retrievable		459
No person data due to refusals, whole household movers, household absent, ill, or hospitalized, some housing units which CATI should have transferred to PV, and invalid input		2,631
Number of persons on original CRS file	29,749	
Deleted—census housing unit converted to vacant (18 HU's)	- 31	
Keying errors on household ID	- 10	
Duplicate person number	- 1	
CRS file	29,707	
Did not match to census ¹	- 60	
Matched person file	29,647	

¹These are mainly cases where the person should not have been included on the input file; the person name was on the census questionnaire, but not enough data were provided to actually define a "person." Consequently, there was no census information to which a CRS match could be made.

collected and as much as 9 months before the final CRS data were collected. Timing of a reinterview survey is important because going to the field too soon after the original data collection can increase the effects of conditioning. There is also a potential loss of accuracy in the data collected if too much time passes. The magnitude of the effect of the time lag cannot be determined. It exists in varying degrees for many of the items included in the survey. There was also some data loss because some respondents had moved before the reinterview was conducted.

CONVERSION HOUSEHOLDS

The census problem of conversion households also affects the CRS sample. A conversion household is a housing unit which was sent a census long form, but the household returned the questionnaire with mainly short-form information. These housing units were on the unedited census file as long forms and, therefore, matched to sampled CRS cases. However, for the missing items, data comparisons could not be made, thus increasing the "not reported" category for many items. When the census file was edited, these long-form households were "converted" to short-form census households and the long-form data were weighted to account for this loss. In the CRS sample, there were 925 conversion households containing 2,023 persons. Of these people, 1,677 had CRS data although they had no census data. Their loss has an immeasurable effect on the survey results.

TABLES.

Summary Measures of Response Error

Table 1. Summary Measures of Response Error for Housing Characteristics Estimated From Response Variance Type Reinterview: 1990 Census

Census questions and categories	Sample size	Percent in class		Net difference rate		Index of inconsistency	
		Census	CRS	Estimate	90-percent confidence interval	Estimate	90-percent confidence interval
H2: Which Best Describes This Building?	10,418	-	-	-	-	-	-
A mobile home or trailer	-	6.6	6.7	-0.1	-0.2 to 0.1	7.9	6.7 to 9.3
A 1-family house detached from any other house	-	68.3	69.0	*-0.7	-1.0 to -0.4	9.4	8.7 to 10.2
A 1-family house attached to 1 or more houses	-	4.4	5.3	*-0.9	-1.1 to -0.6	33.8	30.8 to 37.0
A building with 2 apartments	-	3.8	2.5	*1.3	1.0 to 1.5	40.4	36.5 to 44.8
A building with 3 or 4 apartments	-	3.7	3.6	0.1	-0.1 to 0.4	31.2	28.0 to 34.8
A building with 5 to 9 apartments	-	3.8	3.5	0.2	0.0 to 0.5	39.5	35.9 to 43.5
A building with 10 to 19 apartments	-	2.9	2.6	0.2	0.0 to 0.5	41.2	36.9 to 45.9
A building with 20 to 49 apartments	-	2.3	2.4	-0.1	-0.3 to 0.1	35.4	31.2 to 40.2
A building with 50 or more apartments	-	3.5	3.2	0.2	0.0 to 0.4	24.2	21.3 to 27.5
Other	-	0.8	1.2	*-0.4	-0.6 to -0.2	84.5	74.6 to 95.7
L-fold:							
Total units	10,418	-	-	-	-	21.9	21.0 to 23.0
Black householder	944	-	-	-	-	29.2	26.3 to 32.6
Non-Black householder	9,343	-	-	-	-	21.0	20.0 to 22.1
Spanish/ Hispanic householder	539	-	-	-	-	33.2	29.3 to 37.9
Non-Spanish/ Hispanic householder	9,460	-	-	-	-	21.2	20.2 to 22.3
Non-Black and non-Spanish/ Hispanic householder	8,536	-	-	-	-	20.1	19.0 to 21.3
H19A: Is This House on Less Than 1 Acre?	7,815						
Yes	-	75.3	76.0	*-0.8	-1.4 to -0.2	27.8	26.4 to 29.4
No	-	24.7	24.0	*0.8	0.2 to 1.4	27.8	26.4 to 29.4
L-fold:							
Total units	7,815	-	-	-	-	27.8	26.4 to 29.4
Black householder ¹	548	79.2	85.9	*-6.8	-9.9 to -3.6	67.3	58.6 to 77.8
Non-Black householder ¹	7,207	74.9	75.2	-0.2	-0.8 to 0.3	25.4	23.9 to 27.1
Spanish/ Hispanic householder ¹	297	86.5	90.2	*-3.7	-7.2 to -0.2	63.7	50.3 to 81.6
Non-Spanish/ Hispanic householder ¹	7,246	74.7	75.3	-0.6	-1.2 to 0.1	27.2	25.7 to 28.8
Non-Black and non-Spanish/ Hispanic householder ¹	6,704	74.3	74.4	0.0	-0.7 to 0.6	24.8	23.3 to 26.5
H19B: In 1989, What Were the Actual Sales of All Agricultural Products From This Property?	1,472						
None	-	87.9	89.1	*-1.2	-2.3 to -0.1	30.7	25.9 to 36.5
\$1 to \$999	-	3.3	2.4	0.9	0.0 to 1.8	75.6	61.2 to 93.3
\$1,000 to \$2,499	-	1.8	1.5	0.3	-0.2 to 0.9	56.0	40.9 to 76.8
\$2,500 to \$4,999	-	1.3	1.2	...	...	...	...
\$5,000 to \$9,999	-	1.6	1.4	0.2	-0.3 to 0.7	54.3	38.6 to 76.4
\$10,000 or more	-	4.1	4.5	-0.3	-1.0 to 0.3	30.4	23.3 to 39.9
L-fold:							
Total units	1,472	-	-	-	-	41.7	36.2 to 48.2
Black householder	62	-	-	-	-	...	...
Non-Black householder	1,403	-	-	-	-	40.0	34.5 to 46.4
Spanish/ Hispanic householder	23	-	-	-	-	...	...
Non-Spanish/ Hispanic householder	1,408	-	-	-	-	41.2	35.6 to 47.7
Non-Black and non-Spanish/ Hispanic householder	1,348	-	-	-	-	39.6	34.0 to 46.1

* Indicates significance at the 10-percent level. - Not applicable. ... Not sufficient data to compute reliable response error measures.
¹ Results for the category "Yes."

Table 2. Summary Measures of Response Error for Housing Characteristics Estimated From Response Bias Type Reinterview: 1990 Census

Census questions and categories	Sample size	Percent in class		Net difference rate		Index of inconsistency	
		Census	CRS	Estimate	90-percent confidence interval	Estimate	90-percent confidence interval
H4: Tenure—Is This House or Apartment . . . ?	10,314	-	-	-	-	-	-
Owned by you or someone in this household with a mortgage or loan	-	45.2	43.3	* 1.9	1.5 to 2.3	13.4	12.6 to 14.3
Owned by you or someone in this household free and clear (without a mortgage)	-	25.8	28.5	* -2.6	-3.0 to -2.2	15.3	14.3 to 16.3
Rented for cash rent	-	26.9	26.2	* 0.8	0.5 to 1.0	8.0	7.3 to 8.7
Occupied without payment of cash rent	-	2.0	2.1	0.0	-0.3 to 0.2	44.0	39.0 to 49.7
L-fold:							
Total units	10,314	-	-	-	-	13.3	12.6 to 14.0
Black householder	929	-	-	-	-	20.0	17.4 to 23.1
Non-Black householder	9,253	-	-	-	-	12.7	12.0 to 13.5
Spanish/ Hispanic householder	546	-	-	-	-	16.1	13.1 to 19.9
Non-Spanish/ Hispanic householder	9,360	-	-	-	-	13.2	12.5 to 14.0
Non-Black and non-Spanish householder	8,447	-	-	-	-	12.6	11.9 to 13.4
H7A: What is the Monthly Rent?	2,449	-	-	-	-	-	-
Less than \$80	-	3.8	3.7	0.1	-0.4 to 0.6	29.7	23.6 to 37.3
\$80 to \$99	-	1.9	1.6	0.3	-0.1 to 0.7	45.0	34.5 to 58.7
\$100 to \$124	-	3.3	3.2	0.0	-0.4 to 0.5	30.6	24.0 to 38.8
\$125 to \$149	-	2.7	2.5	0.2	-0.2 to 0.7	38.5	30.4 to 48.8
\$150 to \$174	-	4.5	4.3	0.1	-0.4 to 0.7	31.6	25.8 to 38.8
\$175 to \$199	-	3.4	3.1	0.3	-0.2 to 0.8	31.8	25.2 to 40.3
\$200 to \$224	-	5.5	5.9	-0.4	-1.0 to 0.1	25.8	21.1 to 31.4
\$225 to \$249	-	3.7	3.2	0.5	0.0 to 1.0	32.5	25.9 to 40.7
\$250 to \$274	-	5.5	5.6	0.0	-0.6 to 0.6	30.1	24.9 to 36.3
\$275 to \$299	-	5.0	4.7	0.3	-0.3 to 0.9	33.0	27.3 to 39.9
\$300 to \$324	-	5.8	6.2	-0.4	-1.1 to 0.3	36.9	31.4 to 43.4
\$325 to \$349	-	4.0	3.7	0.2	-0.3 to 0.8	38.7	31.8 to 47.1
\$350 to \$374	-	5.7	5.6	0.1	-0.5 to 0.8	35.6	30.0 to 42.2
\$375 to \$399	-	5.0	4.9	0.2	-0.5 to 0.8	37.4	31.3 to 44.6
\$400 to \$424	-	5.2	5.6	-0.4	-1.1 to 0.3	42.2	35.9 to 49.5
\$425 to \$449	-	3.6	3.3	0.3	-0.3 to 0.9	48.7	40.6 to 58.6
\$450 to \$474	-	4.0	4.4	-0.4	-1.0 to 0.2	45.6	38.3 to 54.2
\$475 to \$499	-	3.8	3.3	0.4	-0.1 to 1.0	36.5	29.6 to 45.1
\$500 to \$524	-	3.0	3.4	-0.4	-1.0 to 0.1	38.8	31.3 to 48.1
\$525 to \$549	-	2.0	1.7	0.3	-0.1 to 0.8	47.5	36.9 to 61.2
\$550 to \$599	-	4.6	4.6	0.0	-0.6 to 0.6	33.7	27.8 to 40.9
\$600 to \$649	-	2.6	3.7	* -1.1	-1.6 to -0.5	38.8	31.3 to 48.2
\$650 to \$699	-	2.9	2.7	0.1	-0.4 to 0.6	38.3	30.4 to 48.2
\$700 to \$749	-	2.3	2.4	-0.1	-0.5 to 0.3	31.8	24.2 to 41.8
\$750 to \$999	-	4.5	4.7	-0.2	-0.7 to 0.2	17.6	13.5 to 23.0
\$1,000 or more	-	1.8	2.0	-0.2	-0.4 to 0.0	12.1	7.4 to 19.7
L-fold:							
Total units	2,449	-	-	-	-	34.7	33.1 to 36.4
Black householder	366	-	-	-	-	45.7	41.6 to 50.5
Non-black householder	2,023	-	-	-	-	32.5	30.8 to 34.4
Spanish/ Hispanic householder	232	-	-	-	-	41.5	36.6 to 47.7
Non-Spanish/ Hispanic householder	2,098	-	-	-	-	34.0	32.4 to 35.9
Non-black and non-Spanish/ Hispanic householder	1,744	-	-	-	-	31.8	29.9 to 33.7

* Indicates significance at the 10-percent level. - Not applicable. ... Not sufficient data to compute reliable response error measures.

Table 2. Summary Measures of Response Error for Housing Characteristics Estimated From Response Bias Type Reinterview: 1990 Census—Con.

Census questions and categories	Sample size	Percent in class		Net difference rate		Index of inconsistency	
		Census	CRS	Estimate	90-percent confidence interval	Estimate	90-percent confidence interval
H7B: Does the Monthly Rent Include Any Meals?	2,463	-	-	-	-	-	-
Yes	-	0.4	0.2	...	...	...	...
No	-	99.6	99.8	...	...	...	...
L-fold:							
Total units	2,463	-	-	...	...	...	...
Black householder ¹	383	0.3	0.3	...	...	...	...
Non-black householder ¹	2,020	0.3	0.2	...	...	...	...
Spanish/ Hispanic householder ¹	230	0.4	0.0	...	...	...	...
Non-Spanish/ Hispanic householder ¹	2,110	0.4	0.2	...	...	...	...
Non-black and non-Spanish/ Hispanic householder ¹	1,741	0.4	0.2	...	...	...	...
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?	10,035	-	-	-	-	-	-
Yes	-	99.1	99.2	-0.1	-0.3 to 0.0	53.8	45.1 to 64.2
No	-	0.9	0.8	0.1	0.0 to 0.3	53.8	45.1 to 64.2
L-fold:							
Total units	10,035	99.1	99.2	-0.1	-0.3 to 0.0	53.8	45.1 to 64.2
Black householder ¹	886	98.0	98.6	-0.7	-1.5 to 0.1	61.0	41.5 to 89.7
Non-Black householder ¹	9,035	99.3	99.3	0.0	-0.2 to 0.1	50.4	41.0 to 61.8
Spanish/ Hispanic householder ¹	509	98.0	99.0	-1.0	-2.1 to 0.2	87.8	55.8 to 138.1
Non-Spanish/ Hispanic householder ¹	9,142	99.2	99.3	-0.1	-0.2 to 0.1	48.3	39.5 to 58.9
Non-Black and non-Spanish/ Hispanic householder ¹	8,270	99.3	99.3	0.0	-0.2 to 0.1	46.4	37.0 to 58.2
H13: How Many Automobiles, Vans, and Trucks of 1-Ton Capacity or Less Are Kept at Home for Use By Members of Your Household?	9,881	-	-	-	-	-	-
None	-	9.0	8.5	*0.5	0.3 to 0.8	16.9	15.3 to 18.7
1	-	32.1	31.7	0.4	-0.2 to 0.9	22.6	21.4 to 23.8
2	-	39.1	39.4	-0.4	-1.0 to 0.3	32.1	30.9 to 33.4
3	-	14.4	14.4	0.1	-0.5 to 0.6	43.8	1.8 to 45.9
4	-	4.0	4.5	*-0.5	-0.9 to -0.2	61.1	56.7 to 65.8
5	-	1.0	1.2	-0.2	-0.4 to 0.0	73.7	64.6 to 84.1
6	-	0.3	0.3	0.0	-0.1 to 0.2	80.2	63.3 to 101.7
7 or more	-	0.2	0.1	0.1	0.0 to 0.1	69.3	47.1 to 101.9
L-fold:							
Total units	9,881	-	-	-	-	32.1	31.1 to 33.1
Black householder	857	-	-	-	-	36.1	32.9 to 39.7
Non-Black householder	8,916	-	-	-	-	31.9	30.9 to 32.9
Spanish/ Hispanic householder	500	-	-	-	-	42.9	38.6 to 47.9
Non-Spanish/ Hispanic householder	9,012	-	-	-	-	31.9	30.9 to 33.0
Non-Black and non-Spanish/ Hispanic householder	8,166	-	-	-	-	31.7	30.7 to 32.8

* Indicates significance at the 10-percent level. - Not applicable. ... Not sufficient data to compute reliable response error measures.
¹ Results for the category "Yes."

Table 2. Summary Measures of Response Error for Housing Characteristics Estimated From Response Bias Type Reinterview: 1990 Census—Con.

Census questions and categories	Sample size	Percent in class		Net difference rate		Index of inconsistency	
		Census	CRS	Estimate	90-percent confidence interval	Estimate	90-percent confidence interval
H17: About When Was This Building First Built?	9,825	-	-	-	-	-	-
1989 or 1990.....	-	1.1	1.5	*-0.4	-0.6 to -0.2	46.0	39.5 to 53.7
1985 to 1988.....	-	7.3	7.7	*-0.4	-0.7 to -0.1	23.2	21.2 to 25.4
1980 to 1984.....	-	7.5	7.9	-0.4	-0.8 to 0.0	36.5	33.9 to 39.2
1970 to 1979.....	-	19.1	21.1	*-2.0	-2.5 to -1.5	28.8	27.3 to 30.4
1960 to 1969.....	-	13.9	14.8	*-0.9	-1.4 to -0.4	38.4	36.4 to 40.5
1950 to 1959.....	-	12.5	13.3	*-0.8	-1.3 to -0.3	39.2	37.1 to 41.5
1940 to 1949.....	-	6.9	7.6	*-0.7	-1.1 to -0.2	50.0	46.9 to 53.3
1939 or earlier.....	-	14.6	19.3	*-4.7	-5.2 to -4.2	34.9	33.1 to 36.8
Don't know.....	-	17.1	6.8	*10.2	9.6 to 10.9	76.8	74.0 to 79.7
L-fold:							
Total units.....	9,825	-	-	-	-	40.6	39.7 to 41.5
Black householder.....	826	-	-	-	-	65.4	62.3 to 68.9
Non-Black householder.....	8,892	-	-	-	-	38.1	37.2 to 39.1
Spanish/ Hispanic householder.....	477	-	-	-	-	61.0	57.0 to 65.6
Non-Spanish/ Hispanic householder.....	8,976	-	-	-	-	39.2	38.3 to 40.2
Non-Black and non-Spanish/ Hispanic householder.....	8,160	-	-	-	-	36.8	35.8 to 37.8

* Indicates significance at the 10-percent level. - Not applicable. ... Not sufficient data to compute reliable response error measures.

Table 3. Summary Measures of Response Error for Population Characteristics Estimated From Response Variance Type Reinterview: 1990 Census

Census questions and categories	Sample size	Percent in class		Net difference rate		Index of inconsistency	
		Census	CRS	Estimate	90-percent confidence interval	Estimate	90-percent confidence interval
P7: Is This Person of Spanish/ Hispanic Origin?	23,979	-	-	-	-	-	-
No (not Spanish/ Hispanic)	-	93.3	93.0	*0.3	0.2 to 0.4	9.3	8.4 to 10.2
Yes, Mexican, Mexican-American, Chicano ..	-	4.1	4.2	-0.1	-0.2 to 0.0	8.5	7.5 to 9.7
Yes, Puerto Rican	-	0.8	0.8	0.0	0.0 to 0.0	8.6	6.4 to 11.5
Yes, Cuban	-	0.3	0.3	0.0	0.0 to 0.0	13.6	9.4 to 19.5
Yes, other Spanish/ Hispanic	-	1.6	1.7	-0.1	-0.2 to 0.0	34.1	30.8 to 37.7
L-fold:							
Total persons	23,979	-	-	-	-	12.2	11.2 to 13.2
Male	11,448	-	-	-	-	12.5	11.2 to 14.1
Female	12,408	-	-	-	-	11.7	10.4 to 13.2
White	20,149	-	-	-	-	14.7	13.2 to 16.3
Black	2,232	-	-	-	-	61.4	44.2 to 85.2
Other	1,223	-	-	-	-	12.5	10.5 to 14.8
P10: When Did This Person Come to the United States to Stay?	1,349	-	-	-	-	-	-
1987 to 1990	-	12.0	11.8	0.2	-0.7 to 1.1	18.7	15.0 to 23.5
1985 or 1986	-	7.9	7.9	-0.1	-1.0 to 0.9	32.1	26.1 to 39.5
1982 to 1984	-	9.4	8.9	0.5	-0.5 to 1.5	29.9	24.4 to 36.5
1980 or 1981	-	7.6	9.3	*-1.6	-2.7 to -0.5	38.3	31.9 to 46.0
1975 to 1979	-	14.8	13.8	1.0	-0.1 to 2.1	24.5	20.4 to 29.5
1970 to 1974	-	10.7	10.7	0.1	-0.8 to 1.0	20.5	16.4 to 25.7
1965 to 1969	-	8.2	8.5	-0.2	-1.1 to 0.6	23.8	18.8 to 30.0
1960 to 1964	-	6.7	6.4	0.2	-0.5 to 0.9	18.7	14.0 to 25.2
1950 to 1959	-	12.6	13.3	-0.7	-1.5 to 0.2	16.1	12.8 to 20.4
Before 1950	-	10.1	9.5	0.6	-0.1 to 1.3	12.6	9.3 to 17.0
L-fold:							
Total persons	1,349	-	-	-	-	23.0	21.1 to 25.2
Male	633	-	-	-	-	22.8	20.1 to 26.0
Female	707	-	-	-	-	23.2	20.6 to 26.2
White	706	-	-	-	-	19.3	16.9 to 22.2
Black	63	-	-	-	-	25.6	18.2 to 38.1
Other	477	-	-	-	-	24.4	21.1 to 28.2
P11: At Any Time Since February 1, 1990 Has This Person Attended Regular School or College?	23,292	-	-	-	-	-	-
No, has not attended since February 1	-	76.3	75.5	*0.7	0.5 to 1.0	15.1	14.4 to 15.8
Yes, public school, public college	-	20.3	20.8	*-0.5	-0.8 to -0.3	16.8	16.0 to 17.6
Yes, private school, private college	-	3.5	3.7	*-0.2	-0.4 to -0.1	31.2	29.0 to 33.6
L-fold:							
Total persons	23,292	-	-	-	-	17.3	16.6 to 18.0
Male	11,062	-	-	-	-	16.6	15.6 to 17.6
Female	12,105	-	-	-	-	18.0	17.0 to 19.1
White	19,724	-	-	-	-	16.4	15.6 to 17.2
Black	2,079	-	-	-	-	22.1	19.7 to 24.8
Other	1,129	-	-	-	-	22.4	19.4 to 25.9

* Indicates significance at the 10-percent level. - Not applicable. ... Not sufficient data to compute response error measures.

Table 3. Summary Measures of Response Error for Population Characteristics Estimated From Response Variance Type Reinterview: 1990 Census—Con.

Census questions and categories	Sample size	Percent in class		Net difference rate		Index of inconsistency	
		Census	CRS	Estimate	90-percent confidence interval	Estimate	90-percent confidence interval
P28C: Is This Industry Mainly...?	11,480	-	-	-	-	-	-
Manufacturing	-	17.4	17.5	-0.1	-0.5 to 0.3	23.3	22.0 to 24.7
Wholesale trade	-	4.0	4.7	*-0.7	-1.1 to -0.4	57.9	54.0 to 62.1
Retail trade	-	16.2	16.9	*-0.7	-1.2 to -0.2	39.1	37.5 to 40.9
Other	-	62.4	60.9	* 1.5	0.9 to 2.1	30.0	28.9 to 31.1
L-fold:							
Total persons	11,480	-	-	-	-	32.6	31.6 to 33.7
Male	6,158	-	-	-	-	34.7	33.3 to 36.1
Female	5,278	-	-	-	-	30.4	28.9 to 32.1
White	10,024	-	-	-	-	31.7	30.6 to 32.8
Black	802	-	-	-	-	40.4	36.1 to 45.4
Other	518	-	-	-	-	39.1	34.3 to 44.9

* Indicates significance at the 10-percent level. - Not applicable. ... Not sufficient data to compute response error measures.

Table 4. Summary Measures of Response Error for Population Characteristics Estimated From Response Bias Type Reinterview: 1990 Census

Census questions and categories	Sample size	Percent in class		Net difference rate		Index of inconsistency	
		Census	CRS	Estimate	90-percent confidence interval	Estimate	90-percent confidence interval
P4: What Is This Person's Race?.....	24,539	-	-	-	-	-	-
White	-	85.2	85.7	*-0.5	-0.7 to -0.3	13.5	12.8 to 14.3
Black or Negro.....	-	9.7	9.8	-0.1	-0.2 to 0.0	3.9	3.5 to 4.4
Indian (American)	-	0.5	0.5	0.0	-0.1 to 0.1	40.7	34.4 to 48.2
Eskimo.....	-	0.0	0.0	0.0	0.0 to 0.0	100.0	33.0 to 302.3
Aleut.....	-	0.0	0.0	0.0	0.0 to 0.0	...	... ..
Chinese.....	-	0.4	0.4	0.0	-0.1 to 0.0	13.1	9.5 to 18.2
Filipino.....	-	0.5	0.4	0.1	0.0 to 0.1	11.7	8.4 to 16.2
Hawaiian.....	-	0.1	0.1	0.0	0.0 to 0.0	38.8	26.7 to 56.5
Korean.....	-	0.3	0.3	0.0	0.0 to 0.0	5.5	3.0 to 10.2
Vietnamese.....	-	0.1	0.1	0.0	0.0 to 0.0	17.7	10.3 to 30.4
Japanese.....	-	0.3	0.3	0.0	0.0 to 0.0	13.3	9.0 to 19.5
Asian Indian.....	-	0.2	0.2	0.0	0.0 to 0.0	16.7	11.4 to 24.6
Samoa.....	-	0.0	0.0	0.0	0.0 to 0.0	71.4	34.7 to 146.8
Guamanian.....	-	0.0	0.0	0.0	0.0 to 0.0	5.3	1.2 to 23.6
Other API.....	-	0.3	0.3	0.0	-0.1 to 0.1	82.9	71.9 to 95.6
Other race.....	-	2.4	1.9	*0.6	0.4 to 0.7	70.3	66.1 to 74.8
L-fold:							
Total persons.....	24,539	-	-	-	-	16.3	15.5 to 17.1
Male.....	11,674	-	-	-	-	18.5	17.3 to 19.9
Female.....	12,751	-	-	-	-	14.5	13.4 to 15.6
White.....	-	-	-	-	-	-	-
Black.....	-	-	-	-	-	-	-
Other.....	-	-	-	-	-	-	-
P8: In What U.S. State or Foreign Country Was This Person Born?	17,046	-	-	-	-	-	-
Alabama.....	-	2.3	2.3	0.0	-0.1 to 0.0	4.0	3.0 to 5.4
Alaska.....	-	0.1	0.2	-0.1	-0.1 to 0.0	56.8	39.7 to 81.2
Arizona.....	-	0.5	0.6	0.0	-0.1 to 0.0	11.5	8.1 to 16.3
Arkansas.....	-	1.4	1.3	0.1	0.0 to 0.2	6.0	4.4 to 8.2
California.....	-	5.1	5.1	0.0	0.0 to 0.1	4.6	3.8 to 5.6
Colorado.....	-	0.8	0.9	0.0	-0.1 to 0.0	5.5	3.7 to 8.3
Connecticut.....	-	1.1	1.1	0.0	-0.1 to 0.0	6.6	4.8 to 9.2
Delaware.....	-	0.1	0.1	0.0	0.0 to 0.0	12.0	6.2 to 23.2
District of Columbia.....	-	0.4	0.4	0.0	0.0 to 0.1	13.5	9.2 to 19.8
Florida.....	-	1.8	1.7	0.1	0.0 to 0.1	8.3	6.5 to 10.5
Georgia.....	-	2.2	2.2	0.0	-0.1 to 0.0	4.3	3.2 to 5.8
Hawaii.....	-	0.3	0.3	0.0	0.0 to 0.0	2.8	1.1 to 6.9
Idaho.....	-	0.3	0.3	0.0	0.0 to 0.0	4.5	2.0 to 9.9
Illinois.....	-	5.7	5.8	0.0	-0.1 to 0.0	2.7	2.1 to 3.4
Indiana.....	-	2.7	2.8	-0.1	-0.2 to 0.0	5.5	4.4 to 6.9
Iowa.....	-	1.9	1.8	0.1	0.0 to 0.1	6.0	4.6 to 7.9
Kansas.....	-	1.4	1.4	0.1	0.0 to 0.1	7.0	5.3 to 9.3
Kentucky.....	-	2.3	2.2	0.1	0.0 to 0.1	4.2	3.2 to 5.6
Louisiana.....	-	2.1	2.1	0.0	-0.1 to 0.0	3.2	2.3 to 4.5
Maine.....	-	0.5	0.5	0.0	0.0 to 0.0	5.2	3.0 to 8.9
Maryland.....	-	1.2	1.2	0.0	0.0 to 0.0	5.8	4.1 to 8.1
Massachusetts.....	-	2.5	2.5	0.0	0.0 to 0.1	4.5	3.4 to 5.9
Michigan.....	-	4.0	4.1	*-0.1	-0.2 to -0.1	4.7	3.8 to 5.8
Minnesota.....	-	2.3	2.3	0.0	0.0 to 0.1	4.2	3.1 to 5.6
Mississippi.....	-	1.7	1.7	0.0	0.0 to 0.1	6.4	4.9 to 8.4
Missouri.....	-	2.5	2.6	-0.1	-0.1 to 0.0	6.5	5.2 to 8.1
Montana.....	-	0.2	0.2	0.0	0.0 to 0.1	13.2	7.9 to 22.1

* Indicates significance at the 10-percent level. - Not applicable. ... Not sufficient data to compute response error measures.

Table 4. Summary Measures of Response Error for Population Characteristics Estimated From Response Bias Type Reinterview: 1990 Census—Con.

Census questions and categories	Sample size	Percent in class		Net difference rate		Index of inconsistency	
		Census	CRS	Estimate	90-percent confidence interval	Estimate	90-percent confidence interval
P8: In What U.S. State or Foreign Country Was This Person Born?—Con.							
Nebraska	-	0.8	0.8	0.0	0.0 to 0.0	2.2	1.1 to 4.2
Nevada	-	0.1	0.1	0.0	0.0 to 0.0	8.1	3.2 to 20.3
New Hampshire	-	0.3	0.3	0.0	0.0 to 0.1	7.4	4.0 to 13.6
New Jersey	-	2.3	2.3	0.0	-0.1 to 0.1	6.1	4.8 to 7.8
New Mexico	-	0.3	0.3	0.0	0.0 to 0.0	13.8	8.9 to 21.3
New York	-	7.5	7.5	0.0	-0.1 to 0.1	4.4	3.8 to 5.2
North Carolina	-	2.8	2.8	0.0	-0.1 to 0.1	4.7	3.7 to 6.0
North Dakota	-	0.4	0.4	0.0	0.0 to 0.0	4.6	2.4 to 9.0
Ohio	-	5.2	5.2	0.0	-0.1 to 0.1	4.6	3.8 to 5.6
Oklahoma	-	1.5	1.5	0.0	0.0 to 0.1	5.0	3.6 to 7.0
Oregon	-	0.5	0.5	0.0	0.0 to 0.0	5.4	3.2 to 9.0
Pennsylvania	-	5.9	5.8	0.1	0.0 to 0.1	2.4	1.9 to 3.0
Rhode Island	-	0.5	0.5	0.0	0.0 to 0.1	6.4	3.8 to 10.6
South Carolina	-	1.7	1.7	0.0	0.0 to 0.1	5.2	3.8 to 7.0
South Dakota	-	0.3	0.3	0.0	0.0 to 0.0	6.4	3.5 to 11.9
Tennessee	-	2.3	2.3	0.0	-0.1 to 0.0	5.4	4.2 to 7.0
Texas	-	4.9	4.9	0.0	-0.1 to 0.1	3.9	3.2 to 4.8
Utah	-	0.5	0.5	0.0	0.0 to 0.0	7.0	4.3 to 11.5
Vermont	-	0.1	0.1	0.0	0.0 to 0.0	11.1	5.0 to 24.8
Virginia	-	2.2	2.2	0.0	-0.1 to 0.1	7.1	5.7 to 9.0
Washington	-	1.2	1.2	0.0	0.0 to 0.1	4.1	2.8 to 6.1
West Virginia	-	1.3	1.3	0.0	0.0 to 0.1	5.0	3.5 to 7.0
Wisconsin	-	2.9	2.9	0.0	0.0 to 0.1	1.8	1.2 to 2.6
Wyoming	-	0.2	0.2	0.0	0.0 to 0.0	1.8	0.4 to 7.9
Puerto Rico	-	0.3	0.4	0.0	-0.1 to 0.0	15.1	10.2 to 22.1
Guam	-	0.0	0.0	0.0	0.0 to 0.0	0.0	0.0 to 16.9
American Samoa	-	0.0	0.0	0.0	0.0 to 0.0	33.3	7.4 to 149.5
U.S. Virgin Islands	-	0.0	0.0	0.0	0.0 to 0.0	...	... ..
Other U.S. trusts and possessions	-	0.0	0.0	0.0	0.0 to 0.0	50.0	16.5 to 151.2
Canada	-	0.3	0.3	0.0	0.0 to 0.0	6.5	3.4 to 12.6
Mexico	-	1.1	1.2	0.0	-0.1 to 0.0	6.7	4.9 to 9.3
All other responses	-	5.0	5.0	-0.1	-0.2 to 0.0	4.6	3.8 to 5.6
L-fold:							
Total persons	17,046	-	-	-	-	4.9	4.6 to 5.2
Male	7,826	-	-	-	-	4.8	4.4 to 5.2
Female	9,220	-	-	-	-	4.9	4.6 to 5.3
White	14,467	-	-	-	-	4.3	4.0 to 4.6
Black	1,680	-	-	-	-	9.0	7.9 to 10.3
Other	899	-	-	-	-	7.8	6.2 to 9.6

* Indicates significance at the 10-percent level. - Not applicable. ... Not sufficient data to compute response error measures.

Table 4. Summary Measures of Response Error for Population Characteristics Estimated From Response Bias Type Reinterview: 1990 Census—Con.

Census questions and categories	Sample size	Percent in class		Net difference rate		Index of inconsistency	
		Census	CRS	Estimate	90-percent confidence interval	Estimate	90-percent confidence interval
P9: Is This Person a Citizen of the United States?	23,406	-	-	-	-	-	-
Yes, born in the United States	-	93.5	93.8	* -0.3	-0.4 to -0.2	5.8	5.1 to 6.6
Yes, born in Puerto Rico, Guam, the U.S. Virgin Islands, or Northern Marianas	-	0.4	0.4	0.0	0.0 to 0.1	24.2	18.8 to 31.2
Yes, born abroad of American parent of parents	-	0.4	0.4	0.0	0.0 to 0.1	35.2	28.8 to 43.1
Yes, U.S. citizen by naturalization	-	2.6	2.4	* 0.3	0.2 to 0.4	18.7	16.7 to 21.0
No, not a citizen of the United States	-	3.0	3.1	0.0	-0.1 to 0.0	9.9	8.6 to 11.3
L-fold:							
Total persons	23,406	-	-	-	-	10.9	10.0 to 12.0
Male	11,095	-	-	-	-	11.2	9.8 to 12.8
Female	12,186	-	-	-	-	10.8	9.5 to 12.3
White	19,817	-	-	-	-	11.3	10.0 to 12.8
Black	2,091	-	-	-	-	15.1	10.5 to 21.5
Other	1,137	-	-	-	-	13.1	11.0 to 15.6
Hispanic	1,442	-	-	-	-	16.0	13.8 to 18.4
Non-Hispanic	21,177	-	-	-	-	10.1	8.9 to 11.4
P12: How much school has this person completed?	20,259	-	-	-	-	-	-
No school completed	-	7.7	8.2	* -0.5	-0.7 to -0.4	14.7	13.6 to 15.9
Nursery school	-	1.8	1.7	0.1	0.0 to 0.3	60.8	56.1 to 65.9
Kindergarten	-	1.3	1.1	* 0.2	0.1 to 0.3	58.1	52.6 to 64.2
1st, 2nd, 3rd, or 4th grade	-	3.7	4.0	* -0.2	-0.4 to -0.1	25.9	23.9 to 28.2
5th, 6th, 7th, or 8th grade	-	6.9	6.7	0.2	0.0 to 0.4	26.7	25.0 to 28.4
9th grade	-	2.9	3.2	* -0.4	-0.6 to -0.1	55.8	52.3 to 59.4
10th grade	-	4.7	5.0	-0.2	-0.5 to 0.0	52.9	50.2 to 55.7
11th grade	-	4.3	5.4	* -1.1	-1.4 to -0.8	59.5	56.6 to 62.5
12th grade, no diploma	-	2.8	0.7	* 2.1	1.9 to 2.3	96.7	90.7 to 103.1
High school graduate	-	26.7	27.9	* -1.2	-1.6 to -0.8	28.5	27.6 to 29.4
Some college but no degree	-	16.4	15.9	* 0.5	0.2 to 0.8	31.3	30.1 to 32.6
Associate degree—occupational	-	2.5	1.8	* 0.7	0.5 to 0.9	58.5	54.3 to 63.0
Associate degree—academic	-	2.1	1.7	* 0.4	0.2 to 0.5	48.6	44.6 to 53.0
Bachelor's degree	-	10.8	11.2	* -0.4	-0.5 to -0.2	9.9	9.1 to 10.8
Master's degree	-	3.7	3.7	0.0	-0.1 to 0.1	9.4	8.1 to 10.8
Professional school degree	-	1.3	1.0	* 0.2	0.1 to 0.3	45.4	40.5 to 50.8
Doctorate degree	-	0.6	1.0	* -0.4	-0.5 to -0.3	32.9	28.0 to 38.8
L-fold:							
Total Persons	20,259	-	-	-	-	32.3	31.7 to 32.9
Male	9,610	-	-	-	-	32.0	31.1 to 32.8
Female	10,551	-	-	-	-	32.6	31.7 to 33.4
White	17,273	-	-	-	-	30.5	29.9 to 31.2
Black	1,790	-	-	-	-	41.9	39.9 to 44.1
Other	914	-	-	-	-	41.7	39.0 to 44.8

* Indicates significance at the 10-percent level. - Not applicable. ... Not sufficient data to compute response error measures.

Table 4. Summary Measures of Response Error for Population Characteristics Estimated From Response Bias Type Reinterview: 1990 Census—Con.

Census questions and categories	Sample size	Percent in class		Net difference rate		Index of inconsistency	
		Census	CRS	Estimate	90-percent confidence interval	Estimate	90-percent confidence interval
P13: What is this person's ancestry or ethnic origin? (single response only).....	7,513	-	-	-	-	-	-
Arab	-	0.3	0.4	0.0	-0.1 to 0.0	7.7	3.5 to 17.2
Austrian	-	0.3	0.3	0.0	-0.1 to 0.1	28.7	17.9 to 45.9
Belgian.....	-	0.1	0.1	0.0	0.0 to 0.0	0.0	0.0 to 19.4
Canadian	-	0.1	0.2	-0.1	-0.2 to 0.0	...	... ..
Czech	-	0.5	0.7	*-0.2	-0.3 to -0.1	33.5	24.9 to 45.2
Danish	-	0.3	0.3	0.1	0.0 to 0.1	13.1	6.8 to 25.3
Dutch	-	1.1	1.2	-0.1	-0.2 to 0.0	25.6	19.9 to 33.0
English.....	-	6.6	6.4	0.2	-0.2 to 0.6	37.3	34.1 to 40.8
Finnish.....	-	0.2	0.2	0.0	0.0 to 0.1	10.4	4.1 to 25.9
French (except Basque).....	-	1.1	1.7	*-0.6	-0.8 to -0.4	42.6	35.7 to 50.8
French Canadian.....	-	1.2	0.5	*0.7	0.5 to 0.9	53.6	43.8 to 65.6
German	-	18.1	17.9	0.2	-0.2 to 0.6	14.5	13.3 to 15.9
Greek	-	0.3	0.3	0.0	0.0 to 0.0	0.0	0.0 to 5.4
Hungarian	-	0.7	0.7	0.0	-0.1 to 0.0	7.9	4.4 to 14.0
Irish	-	7.8	8.1	-0.3	-0.7 to 0.1	29.0	26.4 to 31.8
Italian	-	5.8	5.7	0.1	-0.1 to 0.2	4.9	3.8 to 6.4
Lithuanian	-	0.2	0.2	0.0	0.0 to 0.1	20.0	10.9 to 37.0
Norwegian.....	-	1.2	1.4	-0.1	-0.3 to 0.0	13.0	9.4 to 18.4
Polish	-	3.0	3.0	0.0	-0.1 to 0.1	5.9	4.3 to 8.1
Portuguese	-	0.6	0.5	0.0	0.0 to 0.1	3.7	1.5 to 9.3
Romanian	-	0.1	0.2	0.0	-0.1 to 0.0	16.7	7.5 to 37.2
Russian	-	0.8	0.9	0.0	-0.2 to 0.1	32.6	25.2 to 42.1
Scotch-Irish.....	-	1.3	0.9	*0.4	0.2 to 0.6	60.6	51.4 to 71.5
Scottish	-	0.9	1.4	*-0.4	-0.6 to -0.2	38.0	31.0 to 46.6
Slovak	-	0.6	0.4	*0.3	0.1 to 0.4	35.2	25.7 to 48.3
Subsaharan African.....	-	0.3	0.8	*-0.5	-0.6 to -0.3	72.5	58.3 to 90.1
Swedish.....	-	0.9	0.9	0.0	-0.1 to 0.1	24.7	18.5 to 32.8
Swiss	-	0.2	0.2	0.0	-0.1 to 0.0	23.1	11.9 to 44.7
Ukrainian	-	0.3	0.3	0.0	0.0 to 0.1	23.5	14.4 to 38.4
United States or American	-	7.6	6.8	*0.8	0.2 to 1.4	71.5	67.3 to 76.0
Welsh.....	-	0.2	0.3	-0.1	-0.2 to 0.0	45.1	30.7 to 66.3
West Indian.....	-	0.8	0.8	0.0	-0.1 to 0.1	13.7	9.2 to 20.4
Yugoslavian	-	0.3	0.2	0.0	0.0 to 0.1	21.1	11.9 to 37.5
Race or Hispanic origin groups	-	28.7	25.6	*3.1	2.6 to 3.5	15.0	13.9 to 16.2
Other groups	-	6.5	6.7	-0.3	-0.6 to 0.1	22.8	20.3 to 25.5
Unclassified	-	0.9	4.0	*-3.0	-3.4 to -2.6	90.5	82.7 to 99.1
L-fold:							
Total persons.....	7,513	-	-	-	-	26.5	25.6 to 27.4
Male	3,534	-	-	-	-	26.6	25.3 to 28.0
Female	3,979	-	-	-	-	26.4	25.1 to 27.7
White	5,436	-	-	-	-	29.2	28.2 to 30.3
Black	1,384	-	-	-	-	68.9	63.2 to 75.3
Other	693	-	-	-	-	9.1	6.9 to 12.1
Native born	6,665	-	-	-	-	29.0	28.0 to 30.0
Foreign born.....	848	-	-	-	-	7.5	5.9 to 9.5

* Indicates significance at the 10-percent level. - Not applicable. ... Not sufficient data to compute response error measures.

Table 4. Summary Measures of Response Error for Population Characteristics Estimated From Response Bias Type Reinterview: 1990 Census—Con.

Census questions and categories	Sample size	Percent in class		Net difference rate		Index of inconsistency	
		Census	CRS	Estimate	90-percent confidence interval	Estimate	90-percent confidence interval
P15A: Does this person speak a language other than English at home?.....	21,752	-	-	-	-	-	-
Yes	-	10.1	10.1	0.0	-0.2 to 0.3	26.9	25.6 to 28.3
No	-	89.9	89.9	0.0	-0.3 to 0.2	26.9	25.6 to 28.3
L-fold:							
Total persons	21,752	10.1	10.1	0.0	-0.2 to 0.3	26.9	25.6 to 28.3
Male ¹	10,262	10.0	10.3	-0.3	-0.7 to 0.0	25.8	24.0 to 27.9
Female ¹	11,376	10.3	10.0	0.3	0.0 to 0.7	27.8	26.0 to 29.8
White ¹	18,487	7.0	7.2	-0.1	-0.4 to 0.1	33.2	31.4 to 35.2
Black ¹	1,910	4.0	3.2	0.7	-0.1 to 1.6	72.1	61.0 to 85.3
Other ¹	1,030	66.0	64.5	1.6	-0.3 to 3.4	28.7	25.2 to 32.8
Hispanic ¹	1,305	71.8	73.3	-1.5	-3.0 to 0.1	27.9	24.5 to 31.7
Non-Hispanic ¹	19,728	6.1	6.0	0.1	-0.1 to 0.3	39.2	37.1 to 41.4
P15B: What is this language?	1,261	-	-	-	-	-	-
German	-	5.0	4.9	0.1	-0.3 to 0.5	7.6	4.4 to 13.0
Yiddish	-	0.1	0.2	-0.1	-0.4 to 0.1	33.4	7.4 to 149.6
Scandinavian	-	0.5	0.5	0.0	-0.2 to 0.2	0.0	0.0 to 22.7
Greek	-	0.8	0.8	0.0	-0.2 to 0.2	10.1	3.3 to 30.5
Indic	-	1.7	1.4	0.3	0.0 to 0.7	10.2	4.6 to 22.6
Italian	-	4.1	4.0	0.1	-0.2 to 0.4	5.1	2.5 to 10.4
French	-	5.8	6.4	*-0.6	-1.1 to -0.2	6.9	4.1 to 11.6
Portuguese	-	1.5	1.4	0.1	-0.1 to 0.4	2.7	0.6 to 12.3
Spanish	-	52.9	52.3	*0.6	0.1 to 1.1	2.2	1.4 to 3.4
Polish	-	2.5	2.6	-0.1	-0.4 to 0.1	1.6	0.4 to 7.1
Russian	-	0.6	0.6	0.0	-0.2 to 0.2	0.0	0.0 to 17.0
Slavic	-	1.6	1.5	0.1	-0.2 to 0.4	13.0	6.3 to 26.8
Other Indo-European languages	-	2.4	2.3	0.1	-0.2 to 0.4	8.7	4.2 to 17.8
Arabic	-	1.3	1.4	-0.2	-0.5 to 0.1	6.0	2.0 to 18.0
Tagalog	-	3.1	3.2	-0.1	-0.5 to 0.3	11.8	6.8 to 20.2
Chinese	-	5.2	5.1	0.2	-0.1 to 0.4	3.2	1.5 to 7.2
Hungarian	-	1.7	1.4	0.2	0.0 to 0.6	7.8	3.1 to 19.6
Japanese	-	1.3	1.3	0.1	-0.1 to 0.4	3.1	0.7 to 13.8
MonKhmer	-	1.0	0.8	0.2	-0.1 to 0.5	9.2	3.0 to 27.7
Korean	-	2.7	2.7	0.0	-0.2 to 0.2	0.0	0.0 to 4.1
American Indian languages	-	0.2	0.2	0.0	-0.2 to 0.2	0.0	0.0 to 45.2
Vietnamese	-	0.9	0.9	0.0	-0.2 to 0.2	0.0	0.0 to 12.4
Other languages	-	3.1	4.0	*-1.0	-1.5 to -0.5	16.1	10.4 to 24.9
L-fold:							
Total persons	1,261	-	-	-	-	5.2	4.0 to 6.6
Male	594	-	-	-	-	5.4	3.9 to 7.7
Female	667	-	-	-	-	4.9	3.5 to 6.9
White	712	-	-	-	-	5.4	4.0 to 7.4
Black	27	-	-	-	-	14.6	4.8 to 44.0
Other	522	-	-	-	-	4.8	3.2 to 7.2

* Indicates significance at the 10-percent level. - Not applicable. ... Not sufficient data to compute response error measures.
¹ Results for the category "Yes."

Table 4. Summary Measures of Response Error for Population Characteristics Estimated From Response Bias Type Reinterview: 1990 Census—Con.

Census questions and categories	Sample size	Percent in class		Net difference rate		Index of inconsistency	
		Census	CRS	Estimate	90-percent confidence interval	Estimate	90-percent confidence interval
P15C: How well does this person speak English?	1,834	-	-	-	-	-	-
Very well	-	55.2	53.1	* 2.2	0.2 to 4.1	51.4	48.1 to 54.9
Well	-	25.6	24.0	1.6	-0.4 to 3.6	74.7	70.3 to 79.5
Not well	-	13.5	16.4	* -2.9	-4.5 to -1.4	61.7	56.5 to 67.5
Not at all	-	5.7	6.5	-0.8	-1.7 to 0.1	48.8	41.5 to 57.3
L-fold:							
Total persons	1,834	-	-	-	-	60.3	57.4 to 63.4
Male	882	-	-	-	-	57.8	53.7 to 62.4
Female	942	-	-	-	-	62.7	58.8 to 67.2
White	1,020	-	-	-	-	60.7	56.7 to 65.2
Black	39	-	-	-	-	81.3	62.5 to 113.8
Other	630	-	-	-	-	58.4	53.9 to 63.5
Hispanic	911	-	-	-	-	60.5	56.8 to 64.6
Non-Hispanic	877	-	-	-	-	62.5	57.8 to 67.7
P17A: Has this person ever been on active-duty military service in the Armed Forces of the United States or ever been in the United States military Reserves or the National Guard?	18,364	-	-	-	-	-	-
Yes, now on active duty	-	1.0	0.5	* 0.5	0.4 to 0.6	35.0	29.7 to 41.3
Yes, on active duty in past, but not now ...	-	14.5	15.0	* -0.5	-0.7 to -0.3	8.3	7.6 to 9.0
Yes, service in Reserves or National Guard only	-	1.8	1.9	-0.1	-0.2 to 0.0	27.6	24.4 to 31.2
No	-	82.7	82.6	0.1	0.0 to 0.2	5.0	4.5 to 5.5
L-fold:							
Total persons	18,364	-	-	-	-	8.5	7.9 to 9.2
Male	8,554	-	-	-	-	9.5	8.8 to 10.3
Female	9,717	-	-	-	-	28.5	23.1 to 35.3
White	15,735	-	-	-	-	7.8	7.2 to 8.5
Black	1,537	-	-	-	-	17.5	14.1 to 21.8
Other	823	-	-	-	-	15.4	10.7 to 22.2
P17B1: Was active-duty military service during September 1980 or later? .	2,116	-	-	-	-	-	-
Yes	-	6.0	7.6	* -1.6	-2.1 to -1.0	18.2	14.4 to 23.0
No	-	94.0	92.4	* 1.6	1.0 to 2.1	18.2	14.4 to 23.0
L-fold: ¹							
Total persons	2,116	-	-	-	-	18.2	14.4 to 23.0
P17B2: Was active-duty military service during May 1975 to August 1980?	2,116	-	-	-	-	-	-
Yes	-	7.1	10.7	* -3.6	-4.3 to -2.9	24.9	20.8 to 29.7
No	-	92.9	89.3	* 3.6	2.9 to 4.3	24.9	20.8 to 29.7
L-fold: ¹							
Total persons	2,116	-	-	-	-	24.9	20.8 to 29.7

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Table 4. Summary Measures of Response Error for Population Characteristics Estimated From Response Bias Type Reinterview: 1990 Census—Con.

Census questions and categories	Sample size	Percent in class		Net difference rate		Index of inconsistency	
		Census	CRS	Estimate	90-percent confidence interval	Estimate	90-percent confidence interval
P17B3: Was active-duty military service during the Vietnam era (August 1964 to April 1975)?	2,116	-	-	-	-	-	-
Yes	-	32.1	34.1	*-2.0	-2.6 to -1.3	7.5	6.1 to 9.1
No	-	67.9	65.9	* 2.0	1.3 to 2.6	7.5	6.1 to 9.1
L-fold: ¹							
Total persons	2,116	-	-	-	-	7.5	6.1 to 9.1
P17B4: Was active-duty military service during February 1955 to July 1964?	2,116	-	-	-	-	-	-
Yes	-	17.0	28.9	*-11.9	-13.2 to -10.6	34.6	31.5 to 38.1
No	-	83.0	71.1	* 11.9	10.6 to 13.2	34.6	31.5 to 38.1
L-fold: ¹							
Total persons	2,116	-	-	-	-	34.6	31.5 to 38.1
P17B5: Was active-duty military service during the Korean conflict (June 1950 to January 1955).	2,116	-	-	-	-	-	-
Yes	-	20.1	21.3	*-1.2	-1.8 to -0.6	8.2	6.6 to 10.2
No	-	79.9	78.7	* 1.2	0.6 to 1.8	8.2	6.6 to 10.2
L-fold: ¹							
Total persons	2,116	-	-	-	-	8.2	6.6 to 10.2
P17B6: Was active-duty military service during World War II (September 1940 to July 1947)?	2,116	-	-	-	-	-	-
Yes	-	35.4	36.1	*-0.6	-1.1 to -0.2	3.4	2.6 to 4.5
No	-	64.6	63.9	* 0.6	0.2 to 1.1	3.4	2.6 to 4.5
L-fold: ¹							
Total persons	2,116	-	-	-	-	3.4	2.6 to 4.5
P17B7: Was active-duty military service during World War I (April 1917 to November 1918)?	2,116	-	-	-	-	-	-
Yes .....	-	...	...	...	...	...	...
No .....	-	...	...	...	...	...	...
L-fold: ¹							
Total persons	2,116	...	...	...	...	...	...
P17B8: Was active-duty military service during any other time?	2,116	-	-	-	-	-	-
Yes	-	1.3	9.9	*-8.6	-9.7 to -7.4	93.7	84.4 to 104.3
No	-	98.7	90.1	* 8.6	7.4 to 9.7	93.7	84.4 to 104.3
L-fold: ¹							
Total persons	2,116	-	-	-	-	-	84.4 to 104.3

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Table 4. Summary Measures of Response Error for Population Characteristics Estimated From Response Bias Type Reinterview: 1990 Census—Con.

Census questions and categories	Sample size	Percent in class		Net difference rate		Index of inconsistency	
		Census	CRS	Estimate	90-percent confidence interval	Estimate	90-percent confidence interval
P17C: In total, how many years of active-duty military service has this person had?.....	1,343	-	-	-	-	-	-
1 year	-	5.7	6.3	-0.5	-1.7 to 0.6	58.8	49.4 to 70.0
2 years	-	25.8	24.6	1.2	-0.5 to 2.9	37.2	33.3 to 41.6
3 years	-	23.7	22.7	1.0	-0.8 to 2.8	44.1	39.8 to 49.0
4 years	-	23.5	22.3	1.1	-0.5 to 2.7	36.1	32.1 to 40.6
5 years	-	4.0	4.9	-0.9	-1.9 to 0.2	62.8	51.7 to 76.2
6 years	-	3.8	3.6	0.1	-0.7 to 1.0	51.9	41.2 to 65.5
7 years	-	1.2	1.3	-0.1	-0.6 to 0.5	58.3	40.0 to 84.8
8 years	-	1.6	1.7	-0.1	-0.7 to 0.6	61.0	44.5 to 83.7
9 years .....	-	...	...	...	...	...	...
10 years .....	-	...	...	...	...	...	...
11 years .....	-	...	...	...	...	...	...
12 years .....	-	...	...	...	...	...	...
13 years .....	-	...	...	...	...	...	...
14 years .....	-	...	...	...	...	...	...
15 years .....	-	...	...	...	...	...	...
16 years .....	-	...	...	...	...	...	...
17 years .....	-	...	...	...	...	...	...
18 years .....	-	...	...	...	...	...	...
19 years .....	-	...	...	...	...	...	...
20 years	-	2.2	2.3	-0.1	-0.7 to 0.4	30.7	20.9 to 45.1
21 years .....	-	...	...	...	...	...	...
22 years .....	-	...	...	...	...	...	...
23 years .....	-	...	...	...	...	...	...
24 years .....	-	...	...	...	...	...	...
25 years .....	-	...	...	...	...	...	...
26 years .....	-	...	...	...	...	...	...
27 years .....	-	...	...	...	...	...	...
28 years .....	-	...	...	...	...	...	...
29 years .....	-	...	...	...	...	...	...
30 years .....	-	...	...	...	...	...	...
42 years .....	-	...	...	...	...	...	...
43 years .....	-	...	...	...	...	...	...
50 years .....	-	...	...	...	...	...	...
52 years .....	-	...	...	...	...	...	...
53 years .....	-	...	...	...	...	...	...
55 years .....	-	...	...	...	...	...	...
60 years .....	-	...	...	...	...	...	...
62 years .....	-	...	...	...	...	...	...
63 years	-
70 years	-
74 years	-
88 years	-
L-fold: ¹							
Total persons	1,343	-	-	-	-	45.9	43.4 to 48.7

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Table 4. Summary Measures of Response Error for Population Characteristics Estimated From Response Bias Type Reinterview: 1990 Census—Con.

Census questions and categories	Sample size	Percent in class		Net difference rate		Index of inconsistency	
		Census	CRS	Estimate	90-percent confidence interval	Estimate	90-percent confidence interval
P17C: In total, how many years of active-duty military service has this person had? (Collapsed to 5 categories)	1,343	-	-	-	-	-	-
Less than 2 years	-	5.7	6.3	-0.5	-1.7 to 0.6	58.8	49.4 to 70.0
2 years	-	25.8	24.6	1.2	-0.5 to 2.9	37.2	33.3 to 41.6
3 to 10 years	-	60.6	58.3	*2.3	0.6 to 4.0	29.2	26.1 to 32.6
11 to 19 years	-	2.5	3.4	*-0.9	-1.6 to -0.2	39.6	29.3 to 53.4
20 or more years	-	5.4	7.5	*-2.1	-2.9 to -1.3	25.8	20.0 to 33.2
L-fold: ¹							
Total persons	1,343	-	-	-	-	34.8	31.9 to 38.1
P18A: Does this person have a physical, mental, or other health condition that has lasted for 6 or more months and which limits the kind or amount of work this person can do at a job?	15,578	-	-	-	-	-	-
Yes	-	8.3	10.3	*-2.0	-2.4 to -1.7	43.0	40.9 to 45.1
No	-	91.7	89.7	*2.0	1.7 to 2.4	43.0	40.9 to 45.1
L-fold:							
Total persons	15,578	8.3	10.3	*-2.0	-2.4 to -1.7	43.0	40.9 to 45.1
Male ²	7,469	9.2	10.9	*-1.7	-2.2 to -1.2	39.2	36.5 to 42.1
Female ²	8,036	7.5	9.7	*-2.2	-2.7 to -1.7	46.9	43.8 to 50.2
White ²	13,212	8.0	10.1	*-2.0	-2.4 to -1.6	41.4	39.2 to 43.7
Black ²	1,352	10.9	14.0	*-3.0	-4.5 to -1.6	48.4	42.5 to 55.1
Other ²	777	7.7	9.1	-1.4	-3.1 to 0.3	54.2	44.2 to 66.4
Age 15 to 65 ²	14,928	7.9	9.8	*-2.0	-2.3 to -1.6	42.8	40.7 to 45.1
Age 66+ ²	407	25.1	27.8	-2.7	-6.2 to 0.8	46.1	38.9 to 55.0
P18B: Does this person have a physical, mental, or other health condition that has lasted for 6 or more months and which prevents this person from working at a job?....	1,548	-	-	-	-	-	-
Yes	-	39.7	54.6	*-14.9	-16.9 to -12.8	45.7	42.4 to 49.3
No	-	60.3	45.4	*14.9	12.8 to 16.9	45.7	42.4 to 49.3
L-fold:							
Total persons	1,548	39.7	54.6	*-14.9	-16.9 to -12.8	45.7	42.4 to 49.3
Male ²	787	40.4	54.0	*-13.6	-16.3 to -10.9	41.8	37.4 to 46.9
Female ²	752	39.2	55.5	*-16.2	-19.2 to -13.2	49.4	44.6 to 54.8
White ²	1,283	38.8	53.8	*-15.0	-17.1 to -12.8	42.3	38.8 to 46.2
Black ²	177	45.2	59.3	*-14.1	-20.9 to -7.3	58.8	49.2 to 71.5
Other ²	69	40.6	56.5	*-15.9	-28.3 to -3.4	76.4	61.3 to 99.1
Age 15 to 65 ²	1,416	39.1	53.5	*-14.4	-16.5 to -12.3	45.3	41.9 to 49.2
Age 66+ ²	109	49.5	68.8	*-19.3	-26.9 to -11.6	45.7	35.0 to 61.4

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¹ Demographic subgroups are not reported since the majority of persons reporting are White males.

² Results for the category "Yes."

Table 4. Summary Measures of Response Error for Population Characteristics Estimated From Response Bias Type Reinterview: 1990 Census—Con.

Census questions and categories	Sample size	Percent in class		Net difference rate		Index of inconsistency	
		Census	CRS	Estimate	90-percent confidence interval	Estimate	90-percent confidence interval
P19A: Because of a health condition that has lasted for 6 or more months, does this person have any difficulty going outside the home alone, for example, to shop or visit a doctor's office?.....	18,417	-	-	-	-	-	-
Yes	-	4.0	4.0	0.0	-0.2 to 0.2	47.1	44.2 to 50.2
No	-	96.0	96.0	0.0	-0.2 to 0.2	47.1	44.2 to 50.2
L-fold:							
Total persons	18,417	4.0	4.0	0.0	-0.2 to 0.2	47.1	44.2 to 50.2
Male ¹	8,596	3.0	3.0	0.0	-0.3 to 0.3	52.2	47.2 to 57.9
Female ¹	9,730	4.9	5.0	0.0	-0.4 to 0.3	44.4	40.9 to 48.2
White ¹	15,764	3.7	3.8	-0.1	-0.4 to 0.1	43.9	40.8 to 47.3
Black ¹	1,549	6.9	6.4	0.5	-0.6 to 1.6	58.2	49.9 to 68.0
Other ¹	830	5.2	3.5	* 1.7	0.4 to 3.0	63.8	49.8 to 81.7
Age 15 to 65 ¹	14,795	2.1	2.1	0.0	-0.2 to 0.2	52.3	47.7 to 57.3
Age 66+ ¹	3,291	12.3	12.3	0.1	-0.9 to 1.0	46.7	42.9 to 50.9
P19B: Because of a health condition that has lasted for 6 or more months, does this person have any difficulty taking care of his or her own personal needs, such as bathing, dressing, or getting around inside the house?	18,131	-	-	-	-	-	-
Yes	-	4.2	2.1	* 2.1	1.8 to 2.4	73.6	69.5 to 78.0
No	-	95.8	97.9	* -2.1	-2.4 to -1.8	73.6	69.5 to 78.0
L-fold:							
Total persons	18,131	4.2	2.1	* 2.1	1.8 to 2.4	73.6	69.5 to 78.0
Male ¹	8,444	3.8	2.0	* 1.8	1.4 to 2.2	75.1	68.9 to 82.0
Female ¹	9,596	4.5	2.2	* 2.4	2.0 to 2.7	72.7	67.3 to 78.6
White ¹	15,539	3.4	1.9	* 1.5	1.2 to 1.8	71.6	66.9 to 76.7
Black ¹	1,525	10.1	3.7	* 6.4	5.1 to 7.8	80.5	71.3 to 91.1
Other ¹	801	7.2	2.1	* 5.1	3.5 to 6.7	81.3	65.7 to 100.7
Age 15 to 65 ¹	14,541	2.9	1.4	* 1.6	1.3 to 1.8	78.0	72.4 to 84.1
Age 66+ ¹	3,268	9.2	5.1	* 4.1	3.2 to 5.0	70.6	64.3 to 77.5

* Indicates significance at the 10-percent level. - Not applicable. ... Not sufficient data to compute response error measures.

¹ Results for the category "Yes."

Table 4. Summary Measures of Response Error for Population Characteristics Estimated From Response Bias Type Reinterview: 1990 Census—Con.

Census questions and categories	Sample size	Percent in class		Net difference rate		Index of inconsistency	
		Census	CRS	Estimate	90-percent confidence interval	Estimate	90-percent confidence interval
P30: Was this person?.....	11,739	-	-	-	-	-	-
Employee of a PRIVATE FOR PROFIT company or business or of an individual, for wages, salary, or commissions	-	67.2	66.3	* 0.9	0.4 to 1.4	22.6	21.6 to 23.7
Employee of a PRIVATE NOT-FOR-PROFIT, tax-exempt, or charitable organization	-	6.2	6.2	0.0	-0.3 to 0.4	37.3	34.7 to 40.1
Local government employee	-	6.8	6.9	-0.1	-0.4 to 0.2	27.8	25.7 to 30.1
State government employee	-	4.9	5.2	*-0.3	-0.6 to -0.1	28.7	26.2 to 31.5
Federal government employee	-	3.9	3.9	0.0	-0.2 to 0.1	13.2	11.3 to 15.3
Self-employed in own NOT INCORPORATED business, professional practice, or farm	-	7.5	8.1	*-0.7	-1.0 to -0.4	30.5	28.3 to 32.7
Self-employed in own INCORPORATED business, professional practice, or farm ..	-	2.9	2.9	0.0	-0.2 to 0.3	45.9	41.8 to 50.4
Working without pay in family business or farm	-	0.6	0.4	0.2	0.0 to 0.3	77.6	65.1 to 92.4
L-fold:							
Total persons	11,739	-	-	-	-	27.5	26.5 to 28.5
Male	6,301	-	-	-	-	24.8	23.5 to 26.2
Female	5,391	-	-	-	-	30.6	29.1 to 32.1
White	10,221	-	-	-	-	26.1	25.1 to 27.2
Black	833	-	-	-	-	39.9	35.9 to 44.5
Other	533	-	-	-	-	33.9	29.1 to 39.8
P30: Was this person? (reinterview recode)	11,806	-	-	-	-	-	-
Employee of a PRIVATE FOR PROFIT company or business or of an individual, for wages, salary, or commissions	-	67.2	66.3	* 0.9	0.4 to 1.4	22.9	21.9 to 24.0
Employee of a PRIVATE NOT-FOR-PROFIT, tax-exempt, or charitable organization	-	6.3	6.0	0.3	0.0 to 0.6	37.9	35.3 to 40.8
Local government employee	-	6.8	7.3	*-0.4	-0.7 to -0.1	27.7	25.6 to 30.0
State government employee	-	4.9	5.1	-0.2	-0.5 to 0.0	29.1	26.6 to 31.9
Federal government employee	-	3.8	3.9	-0.1	-0.2 to 0.1	13.4	11.5 to 15.6
Self-employed in own NOT INCORPORATED business, professional practice, or farm	-	7.4	8.1	*-0.7	-1.0 to -0.4	30.8	28.6 to 33.1
Self-employed in own INCORPORATED business, professional practice, or farm...	-	2.9	2.9	0.0	-0.2 to 0.3	46.3	42.2 to 50.8
Working without pay in family business or farm	-	0.6	0.4	0.2	0.0 to 0.3	76.2	64.0 to 90.8
L-fold:							
Total persons	11,806	-	-	-	-	27.8	26.8 to 28.8
Male	6,331	-	-	-	-	25.2	23.9 to 26.6
Female	5,428	-	-	-	-	30.7	29.3 to 32.3
White	10,275	-	-	-	-	26.4	25.4 to 27.5
Black	839	-	-	-	-	40.5	36.4 to 45.1
Other	537	-	-	-	-	33.7	28.9 to 39.5

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Table 4. Summary Measures of Response Error for Population Characteristics Estimated From Response Bias Type Reinterview: 1990 Census—Con.

Census questions and categories	Sample size	Percent in class		Net difference rate		Index of inconsistency	
		Census	CRS	Estimate	90-percent confidence interval	Estimate	90-percent confidence interval
P31A: Last year (1989), did this person work, even for a few days, at a paid job or in a business or farm?.....	15,063	-	-	-	-	-	-
Yes	-	75.4	75.0	0.5	-0.1 to 1.0	45.9	44.6 to 47.3
No	-	24.6	25.0	-0.5	-1.0 to 0.1	45.9	44.6 to 47.3
L-fold:							
Total persons	15,063	75.4	75.0	0.5	-0.1 to 1.0	45.9	44.6 to 47.3
Male ¹	7,602	79.2	79.3	0.0	-0.8 to 0.7	51.3	49.2 to 53.5
Female ¹	7,395	71.7	70.7	* 1.0	0.2 to 1.8	42.3	40.6 to 44.1
White ¹	13,064	75.9	75.6	0.3	-0.3 to 0.9	44.3	42.9 to 45.8
Black ¹	1,147	70.4	69.1	1.3	-1.0 to 3.6	51.9	47.4 to 56.9
Other ¹	652	76.8	74.8	2.0	-1.1 to 5.1	61.5	54.7 to 69.4
P31B: How many weeks did this person work in 1989?.....	11,337	-	-	-	-	-	-
50-52 weeks	-	67.5	73.6	*-6.1	-6.8 to -5.4	43.4	42.0 to 44.9
48-49 weeks	-	4.5	2.4	* 2.1	1.7 to 2.5	92.6	87.0 to 98.6
40-47 weeks	-	8.0	6.0	* 2.0	1.5 to 2.5	72.7	69.2 to 76.5
27-39 weeks	-	7.0	6.0	* 1.1	0.6 to 1.5	67.7	64.1 to 71.4
14-26 weeks	-	7.2	6.4	* 0.8	0.4 to 1.3	63.1	59.8 to 66.7
1-13 weeks	-	5.7	5.6	0.1	-0.2 to 0.5	47.6	44.4 to 50.9
L-fold:							
Total persons	11,337	-	-	-	-	56.8	55.4 to 58.3
Male	6,097	-	-	-	-	59.3	57.2 to 61.6
Female	5,240	-	-	-	-	55.5	53.7 to 57.5
White	9,993	-	-	-	-	55.0	53.5 to 56.5
Black	819	-	-	-	-	67.3	62.4 to 72.8
Other	525	-	-	-	-	83.3	77.5 to 90.2
P31C: During the weeks WORKED in 1989, how many hours did this person usually work each week? .	11,354	-	-	-	-	-	-
35 hours or more	-	80.0	79.7	0.3	-0.2 to 0.8	33.5	32.1 to 35.0
1-34 hours	-	20.0	20.3	-0.3	-0.8 to 0.2	33.5	32.1 to 35.0
L-fold:							
Total persons	11,354	-	-	-	-	33.5	32.1 to 35.0
Male	6,084	-	-	-	-	41.0	38.2 to 44.1
Female	5,270	-	-	-	-	31.6	29.8 to 33.5
White	10,004	-	-	-	-	32.5	30.9 to 34.0
Black	822	-	-	-	-	43.7	37.9 to 50.6
Other	528	-	-	-	-	39.9	32.7 to 49.0
P31C: During the weeks WORKED in 1989, how many hours did this person usually work each week? .	11,354	-	-	-	-	-	-
35 hours or more	-	80.0	79.7	0.3	-0.2 to 0.8	33.5	32.1 to 35.0
15-34 hours	-	16.2	16.5	-0.4	-0.9 to 0.2	41.7	39.9 to 43.5
1-14 hours	-	3.8	3.8	0.1	-0.3 to 0.4	63.3	58.9 to 68.0
L-fold:							
Total persons	11,354	-	-	-	-	40.1	38.6 to 41.7
Male	6,084	-	-	-	-	47.7	44.9 to 50.7
Female	5,270	-	-	-	-	38.2	36.4 to 40.2
White	10,004	-	-	-	-	39.3	37.7 to 41.0
Black	822	-	-	-	-	48.6	42.6 to 55.6
Other	528	-	-	-	-	44.7	37.2 to 54.0

* Indicates significance at the 10-percent level. - Not applicable. ... Not sufficient data to compute response error measures.

¹ Results for the category "Yes."

APPENDIX A.

Facsimiles of the Content Reinterview Questionnaire and the 1990 Census of the United States With Respondent Instructions

OMB No. 0607-0680: Approval Expires 06/30/91

<p>NOTICE — Response to this inquiry is required by law (Title 13, U.S. Code). By the same law, your report to the Census Bureau is confidential. It may be seen only by sworn Census employees and may be used only for statistical purposes.</p> <p>FORM D-1010 (7-25-90)</p> <p style="text-align: center;">CONTENT REINTERVIEW QUESTIONNAIRE</p> <p style="text-align: center;">21st Decennial Census — 1990</p> <p style="text-align: center;">U.S. DEPARTMENT OF COMMERCE BUREAU OF THE CENSUS</p> <p>Name of interviewer _____ Code _____</p>	<p style="text-align: center;">Section I — IDENTIFICATION</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">DO code</td> <td style="width: 15%;">Unit ID</td> <td style="width: 10%;">ARA</td> <td style="width: 10%;">Block</td> <td style="width: 15%;">Map spot</td> <td style="width: 10%;">Reference date</td> </tr> <tr> <td colspan="2">Person No.</td> <td colspan="4">Name</td> </tr> <tr> <td colspan="2"> </td> <td colspan="4"> </td> </tr> <tr> <td colspan="2"> </td> <td colspan="4"> </td> </tr> <tr> <td colspan="2"> </td> <td colspan="4"> </td> </tr> <tr> <td colspan="6">Address</td> </tr> <tr> <td colspan="2">City</td> <td colspan="2">State</td> <td colspan="2">ZIP Code</td> </tr> <tr> <td colspan="6">Telephone number</td> </tr> <tr> <td colspan="6">Comments</td> </tr> <tr> <td colspan="6"> </td> </tr> <tr> <td colspan="6"> </td> </tr> </table>	DO code	Unit ID	ARA	Block	Map spot	Reference date	Person No.		Name																						Address						City		State		ZIP Code		Telephone number						Comments																	
DO code	Unit ID	ARA	Block	Map spot	Reference date																																																														
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Address																																																																			
City		State		ZIP Code																																																															
Telephone number																																																																			
Comments																																																																			

Section II — RECORD OF CONTACTS		
Date (a)	Time (b)	Comments, appointments, telephone number (c)
	a.m. p.m.	
	a.m. p.m.	
	a.m. p.m.	
	a.m. p.m.	
	a.m. p.m.	
	a.m. p.m.	
	a.m. p.m.	
	a.m. p.m.	

Section III — FINAL STATUS														
<p>Mark (X) ONE box.</p> <table style="width: 100%;"> <tr> <td style="width: 33%;">1 <input type="checkbox"/> Complete interview</td> <td style="width: 33%;">5 <input type="checkbox"/> Temporarily absent</td> <td style="width: 33%;">9 <input type="checkbox"/> Other — Explain _____</td> </tr> <tr> <td>2 <input type="checkbox"/> Partial interview</td> <td>6 <input type="checkbox"/> Refused</td> <td>_____</td> </tr> <tr> <td>3 <input type="checkbox"/> Whole household moved</td> <td>7 <input type="checkbox"/> Vacant</td> <td>_____</td> </tr> <tr> <td>4 <input type="checkbox"/> No one home</td> <td>8 <input type="checkbox"/> Demolished</td> <td>_____</td> </tr> </table>			1 <input type="checkbox"/> Complete interview	5 <input type="checkbox"/> Temporarily absent	9 <input type="checkbox"/> Other — Explain _____	2 <input type="checkbox"/> Partial interview	6 <input type="checkbox"/> Refused	_____	3 <input type="checkbox"/> Whole household moved	7 <input type="checkbox"/> Vacant	_____	4 <input type="checkbox"/> No one home	8 <input type="checkbox"/> Demolished	_____
1 <input type="checkbox"/> Complete interview	5 <input type="checkbox"/> Temporarily absent	9 <input type="checkbox"/> Other — Explain _____												
2 <input type="checkbox"/> Partial interview	6 <input type="checkbox"/> Refused	_____												
3 <input type="checkbox"/> Whole household moved	7 <input type="checkbox"/> Vacant	_____												
4 <input type="checkbox"/> No one home	8 <input type="checkbox"/> Demolished	_____												

<p style="text-align: center;">INTRODUCTION</p> <p>Hello, my name is (Your name) and I'm from the U.S. Census Bureau. This is my identification (PAUSE). We are doing a survey to evaluate the data we collected in the census last April.</p> <p>I would like to speak with a household member in whose name this home is owned, being bought, or rented. (If no such person is available, start with any adult household member. Repeat the above introduction for the new respondent. If no adult household members are present, ask 1a to verify the address and schedule a callback in Section II.)</p> <p>I have a few questions I would like to ask of you and your household. Did you receive our introductory letter? (If not, give respondent a copy of the letter.)</p> <p>1 a. What is your exact address?</p> <p>Verify against the label that this is the correct sample unit. If necessary, verify both the address and the roster. If this is the sample unit — continue with 1b. If this is not the sample unit — END INTERVIEW and find the correct unit.</p> <p>b. Is there anyone living here now who was living here on April 1, 1990?</p> <p>1 <input type="checkbox"/> Yes — Continue with 1c 2 <input type="checkbox"/> No — END INTERVIEW and complete Section III. 3 <input type="checkbox"/> Don't know — Continue with 1c</p> <p>c. What is your name? <u> </u></p> <p style="text-align: center;">Continue with Check Item A</p>	<p style="text-align: center;">CHECK ITEM A</p> <p style="text-align: center;">Is the name listed in 1c listed on the label in section I?</p> <p>1 <input type="checkbox"/> Yes — Determine whether EACH person listed in Section IV still lives here and their age by asking 1d and 1e for each person listed in columns 1 — 5. Mark 1d and 1e for the current respondent without asking. Then go to Check Item B in the appropriate column for the current respondent.</p> <p>2 <input type="checkbox"/> No — Ask to speak with any other adult person listed on the label. If necessary, repeat the introduction for the new respondent. Then, continue as instructed above for the "Yes" response to Check Item A with the new respondent. If none of the persons listed on the label are available, schedule a callback and complete Section II.</p>
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Section IV — HOUSEHOLD ROSTER	PERSON 1		PERSON 2	
	Last name	Person No. from label	Last name	Person No. from label
	First name	Middle initial	First name	Middle initial
<p><i>Transcribe the person names from the label in person number order to the columns at the right.</i></p> <p>1d. Does . . . still live here? If NONE of the persons live here, END INTERVIEW and complete Sections II and III.</p> <p>e. Is . . . under 15 years of age? If "Don't know," say — Please give me your best estimate.</p>	<p>1 <input type="checkbox"/> Still lives here — Ask 1e</p> <p>2 <input type="checkbox"/> No longer lives here (Moved, dead, unknown, etc.) — Skip to next person</p>	<p>1 <input type="checkbox"/> Still lives here — Ask 1e</p> <p>2 <input type="checkbox"/> No longer lives here (Moved, dead, unknown, etc.) — Skip to next person</p>	<p>1 <input type="checkbox"/> Yes } Go to 1d for next person listed. If all complete, skip to Check Item B.</p> <p>2 <input type="checkbox"/> No }</p>	<p>1 <input type="checkbox"/> Yes } Go to 1d for next person listed. If all complete, skip to Check Item B.</p> <p>2 <input type="checkbox"/> No }</p>
CHECK ITEM B	<p>1 <input type="checkbox"/> Self response</p> <p>2 <input type="checkbox"/> Proxy — Print proxy's person number → 3 <input type="text"/></p>	<p>1 <input type="checkbox"/> Self response</p> <p>2 <input type="checkbox"/> Proxy — Print proxy's person number → 3 <input type="text"/></p>		
2. Is . . . male or female?	1 <input type="checkbox"/> Male 2 <input type="checkbox"/> Female	1 <input type="checkbox"/> Male 2 <input type="checkbox"/> Female		
3a. How old is . . . ? <i>If "Don't know," say — Please give me your best estimate.</i>	Age <input type="text"/>	Age <input type="text"/>		
b. In what year was . . . born?	Year <input type="text"/>	Year <input type="text"/>		
<p>4. If the respondent is Person 1, skip to 5a. Otherwise, refer to 1d, Person 1.</p> <p>If Person 1 still lives here, ask — How is . . . related to (Person 1)?</p> <p>If Person 1 does NOT live here, ask — How was . . . related to (Person 1)?</p> <p>Mark (X) ONE box for each person.</p> <p>If "Other relative" of person in column 1, mark box and print exact relationship, such as mother-in-law, grandparent, son-in-law, niece, cousin, and so on.</p>		<p>If a RELATIVE of Person 1:</p> <p>01 <input type="checkbox"/> Husband/wife</p> <p>02 <input type="checkbox"/> Natural-born or adopted son/daughter</p> <p>03 <input type="checkbox"/> Stepson/stepdaughter</p> <p>04 <input type="checkbox"/> Brother/sister</p> <p>05 <input type="checkbox"/> Father/mother</p> <p>06 <input type="checkbox"/> Grandchild</p> <p>07 <input type="checkbox"/> Other relative ↗ <input type="text"/></p> <p>If NOT RELATED to Person 1:</p> <p>08 <input type="checkbox"/> Roomer, boarder, or foster child</p> <p>09 <input type="checkbox"/> Housemate, roommate</p> <p>10 <input type="checkbox"/> Unmarried partner</p> <p>11 <input type="checkbox"/> Other nonrelative</p>		
<p>5a. What is . . .'s race? For example, White, Black or Negro, Eskimo, Aleut, American Indian, or an Asian or Pacific Islander group such as Chinese, Filipino, Hawaiian, Korean, Vietnamese, Japanese, Asian Indian, Samoan, Guamanian, and so on.</p> <p>Mark (X) ONE box for the race that the person considers himself/herself to be.</p> <p>If response is African-American, Afro-American, Haitian, Jamaican, West Indian, Nigerian, and so on, mark the "Black or Negro" box and skip to 6.</p> <p>If response is an "Other API" group such as Burmese, Fijian, Sri Lankan, and so on, mark the "Other API" box, print the name of the group and skip to 6. If a multiple response is given in 5a for "Other API," print the names of the groups and continue with 5b.</p> <p>If response is "Other race," mark the "Other race" box, print the name of the race and skip to 6. If a multiple response is given in 5a for "Other race," print the names of the groups and continue with 5b.</p>	<p>01 <input type="checkbox"/> White</p> <p>02 <input type="checkbox"/> Black or Negro</p> <p>03 <input type="checkbox"/> Eskimo</p> <p>04 <input type="checkbox"/> Aleut</p> <p>05 <input type="checkbox"/> American Indian — Skip to 5c</p> <p>Asian or Pacific Islander (API)</p> <p>06 <input type="checkbox"/> Chinese 15 <input type="checkbox"/> Thai</p> <p>07 <input type="checkbox"/> Filipino 16 <input type="checkbox"/> Cambodian</p> <p>08 <input type="checkbox"/> Hawaiian 17 <input type="checkbox"/> Laotian</p> <p>09 <input type="checkbox"/> Korean 18 <input type="checkbox"/> Pakistani</p> <p>10 <input type="checkbox"/> Vietnamese 19 <input type="checkbox"/> Hmong</p> <p>11 <input type="checkbox"/> Japanese 20 <input type="checkbox"/> Tongan</p> <p>12 <input type="checkbox"/> Asian Indian 21 <input type="checkbox"/> Other API — Print group(s) ↘</p> <p>13 <input type="checkbox"/> Samoan</p> <p>14 <input type="checkbox"/> Guamanian</p> <p><input type="text"/></p> <p>22 <input type="checkbox"/> Other race — Print group(s) ↘</p> <p><input type="text"/></p>	<p>01 <input type="checkbox"/> White</p> <p>02 <input type="checkbox"/> Black or Negro</p> <p>03 <input type="checkbox"/> Eskimo</p> <p>04 <input type="checkbox"/> Aleut</p> <p>05 <input type="checkbox"/> American Indian — Skip to 5c</p> <p>Asian or Pacific Islander (API)</p> <p>06 <input type="checkbox"/> Chinese 15 <input type="checkbox"/> Thai</p> <p>07 <input type="checkbox"/> Filipino 16 <input type="checkbox"/> Cambodian</p> <p>08 <input type="checkbox"/> Hawaiian 17 <input type="checkbox"/> Laotian</p> <p>09 <input type="checkbox"/> Korean 18 <input type="checkbox"/> Pakistani</p> <p>10 <input type="checkbox"/> Vietnamese 19 <input type="checkbox"/> Hmong</p> <p>11 <input type="checkbox"/> Japanese 20 <input type="checkbox"/> Tongan</p> <p>12 <input type="checkbox"/> Asian Indian 21 <input type="checkbox"/> Other API — Print group(s) ↘</p> <p>13 <input type="checkbox"/> Samoan</p> <p>14 <input type="checkbox"/> Guamanian</p> <p><input type="text"/></p> <p>22 <input type="checkbox"/> Other race — Print group(s) ↘</p> <p><input type="text"/></p>		

PERSON 3		PERSON 4		PERSON 5	
Last name	Person No. from label	Last name	Person No. from label	Last name	Person No. from label
First name	Middle initial	First name	Middle initial	First name	Middle initial
1 <input type="checkbox"/> Still lives here — Ask 1e 2 <input type="checkbox"/> No longer lives here (Moved, dead, unknown, etc.) — Skip to next person		1 <input type="checkbox"/> Still lives here — Ask 1e 2 <input type="checkbox"/> No longer lives here (Moved, dead, unknown, etc.) — Skip to next person		1 <input type="checkbox"/> Still lives here — Ask 1e 2 <input type="checkbox"/> No longer lives here (Moved, dead, unknown, etc.) — Skip to next person	
1 <input type="checkbox"/> Yes } Go to 1d for next person listed. If all complete, skip to Check Item B. 2 <input type="checkbox"/> No }		1 <input type="checkbox"/> Yes } Go to 1d for next person listed. If all complete, skip to Check Item B. 2 <input type="checkbox"/> No }		1 <input type="checkbox"/> Yes } Go to 1d for next person listed. If all complete, skip to Check Item B. 2 <input type="checkbox"/> No }	
1 <input type="checkbox"/> Self response 2 <input type="checkbox"/> Proxy — Print proxy's person number → 3 <input type="text"/>		1 <input type="checkbox"/> Self response 2 <input type="checkbox"/> Proxy — Print proxy's person number → 3 <input type="text"/>		1 <input type="checkbox"/> Self response 2 <input type="checkbox"/> Proxy — Print proxy's person number → 3 <input type="text"/>	
1 <input type="checkbox"/> Male 2 <input type="checkbox"/> Female		1 <input type="checkbox"/> Male 2 <input type="checkbox"/> Female		1 <input type="checkbox"/> Male 2 <input type="checkbox"/> Female	
Age <input type="text"/>		Age <input type="text"/>		Age <input type="text"/>	
Year <input type="text"/>		Year <input type="text"/>		Year <input type="text"/>	
If a RELATIVE of Person 1: 01 <input type="checkbox"/> Husband/wife 02 <input type="checkbox"/> Natural-born or adopted son/daughter 03 <input type="checkbox"/> Stepson/stepdaughter 04 <input type="checkbox"/> Brother/sister 05 <input type="checkbox"/> Father/mother 06 <input type="checkbox"/> Grandchild 07 <input type="checkbox"/> Other relative ↗ <input type="text"/>		If a RELATIVE of Person 1: 01 <input type="checkbox"/> Husband/wife 02 <input type="checkbox"/> Natural-born or adopted son/daughter 03 <input type="checkbox"/> Stepson/stepdaughter 04 <input type="checkbox"/> Brother/sister 05 <input type="checkbox"/> Father/mother 06 <input type="checkbox"/> Grandchild 07 <input type="checkbox"/> Other relative ↗ <input type="text"/>		If a RELATIVE of Person 1: 01 <input type="checkbox"/> Husband/wife 02 <input type="checkbox"/> Natural-born or adopted son/daughter 03 <input type="checkbox"/> Stepson/stepdaughter 04 <input type="checkbox"/> Brother/sister 05 <input type="checkbox"/> Father/mother 06 <input type="checkbox"/> Grandchild 07 <input type="checkbox"/> Other relative ↗ <input type="text"/>	
If NOT RELATED to Person 1: 08 <input type="checkbox"/> Roomer, boarder, or foster child 09 <input type="checkbox"/> Housemate, roommate 10 <input type="checkbox"/> Unmarried partner 11 <input type="checkbox"/> Other nonrelative		If NOT RELATED to Person 1: 08 <input type="checkbox"/> Roomer, boarder, or foster child 09 <input type="checkbox"/> Housemate, roommate 10 <input type="checkbox"/> Unmarried partner 11 <input type="checkbox"/> Other nonrelative		If NOT RELATED to Person 1: 08 <input type="checkbox"/> Roomer, boarder, or foster child 09 <input type="checkbox"/> Housemate, roommate 10 <input type="checkbox"/> Unmarried partner 11 <input type="checkbox"/> Other nonrelative	
01 <input type="checkbox"/> White 02 <input type="checkbox"/> Black or Negro } Skip to 6 03 <input type="checkbox"/> Eskimo 04 <input type="checkbox"/> Aleut 05 <input type="checkbox"/> American Indian — Skip to 5c		01 <input type="checkbox"/> White 02 <input type="checkbox"/> Black or Negro } Skip to 6 03 <input type="checkbox"/> Eskimo 04 <input type="checkbox"/> Aleut 05 <input type="checkbox"/> American Indian — Skip to 5c		01 <input type="checkbox"/> White 02 <input type="checkbox"/> Black or Negro } Skip to 6 03 <input type="checkbox"/> Eskimo 04 <input type="checkbox"/> Aleut 05 <input type="checkbox"/> American Indian — Skip to 5c	
Asian or Pacific Islander (API) 06 <input type="checkbox"/> Chinese 15 <input type="checkbox"/> Thai 07 <input type="checkbox"/> Filipino 16 <input type="checkbox"/> Cambodian 08 <input type="checkbox"/> Hawaiian 17 <input type="checkbox"/> Laotian 09 <input type="checkbox"/> Korean 18 <input type="checkbox"/> Pakistani 10 <input type="checkbox"/> Vietnamese 19 <input type="checkbox"/> Hmong 11 <input type="checkbox"/> Japanese 20 <input type="checkbox"/> Tongan 12 <input type="checkbox"/> Asian Indian 21 <input type="checkbox"/> Other API — Print group(s) 13 <input type="checkbox"/> Samoan 14 <input type="checkbox"/> Guamanian		Asian or Pacific Islander (API) 06 <input type="checkbox"/> Chinese 15 <input type="checkbox"/> Thai 07 <input type="checkbox"/> Filipino 16 <input type="checkbox"/> Cambodian 08 <input type="checkbox"/> Hawaiian 17 <input type="checkbox"/> Laotian 09 <input type="checkbox"/> Korean 18 <input type="checkbox"/> Pakistani 10 <input type="checkbox"/> Vietnamese 19 <input type="checkbox"/> Hmong 11 <input type="checkbox"/> Japanese 20 <input type="checkbox"/> Tongan 12 <input type="checkbox"/> Asian Indian 21 <input type="checkbox"/> Other API — Print group(s) 13 <input type="checkbox"/> Samoan 14 <input type="checkbox"/> Guamanian		Asian or Pacific Islander (API) 06 <input type="checkbox"/> Chinese 15 <input type="checkbox"/> Thai 07 <input type="checkbox"/> Filipino 16 <input type="checkbox"/> Cambodian 08 <input type="checkbox"/> Hawaiian 17 <input type="checkbox"/> Laotian 09 <input type="checkbox"/> Korean 18 <input type="checkbox"/> Pakistani 10 <input type="checkbox"/> Vietnamese 19 <input type="checkbox"/> Hmong 11 <input type="checkbox"/> Japanese 20 <input type="checkbox"/> Tongan 12 <input type="checkbox"/> Asian Indian 21 <input type="checkbox"/> Other API — Print group(s) 13 <input type="checkbox"/> Samoan 14 <input type="checkbox"/> Guamanian	
22 <input type="checkbox"/> Other race — Print group(s) ↗ <input type="text"/>		22 <input type="checkbox"/> Other race — Print group(s) ↗ <input type="text"/>		22 <input type="checkbox"/> Other race — Print group(s) ↗ <input type="text"/>	

Section IV — HOUSEHOLD ROSTER	PERSON 1		PERSON 2													
	Last name	Person No. from label	Last name	Person No. from label												
	First name	Middle initial	First name	Middle initial												
<p>1d. Does . . . still live here? If NONE of the persons live here, END INTERVIEW and complete Sections II and III.</p> <p>e. Is . . . under 15 years of age? If "Don't know," say — Please give me your best estimate.</p>	<p>1 <input type="checkbox"/> Still lives here — Ask 1e 2 <input type="checkbox"/> No longer lives here (Moved, dead, unknown, etc.) — Skip to next person</p>		<p>1 <input type="checkbox"/> Still lives here — Ask 1e 2 <input type="checkbox"/> No longer lives here (Moved, dead, unknown, etc.) — Skip to next person</p>													
<p>CHECK ITEM B</p> <p>Continue in the appropriate column for the current respondent. Mark (X) ONE box to indicate the status of the respondent.</p>	<p>1 <input type="checkbox"/> Self response 2 <input type="checkbox"/> Proxy — Print proxy's person number → 3 <input type="text"/></p>		<p>1 <input type="checkbox"/> Self response 2 <input type="checkbox"/> Proxy — Print proxy's person number → 3 <input type="text"/></p>													
<p>2. Is . . . male or female?</p>	<p>1 <input type="checkbox"/> Male 2 <input type="checkbox"/> Female</p>		<p>1 <input type="checkbox"/> Male 2 <input type="checkbox"/> Female</p>													
<p>3a. How old is . . . ? If "Don't know," say — Please give me your best estimate.</p>	<p>Age</p> <table border="1"> <tr> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> </tr> </table>					<p>Age</p> <table border="1"> <tr> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> </tr> </table>										
<p>5b. If "Other API" OR "Other race" is a multiple response, ask . . . reported more than one Asian or Pacific Islander/racial group; with which one of these groups does . . . most closely identify?</p>	<p>Print ONE group ↘</p> <table border="1"> <tr> <td style="width: 40px; height: 20px;"></td> <td style="width: 40px; height: 20px;"></td> <td style="width: 40px; height: 20px;"></td> </tr> </table> <p>Skip to 6</p>					<p>Print ONE group ↘</p> <table border="1"> <tr> <td style="width: 40px; height: 20px;"></td> <td style="width: 40px; height: 20px;"></td> <td style="width: 40px; height: 20px;"></td> </tr> </table> <p>Skip to 6</p>										
<p>c. If respondent answers "American Indian" in question 5a, ask — What is the name of . . . 's enrolled or principal tribe?</p>	<p>Print name of enrolled or principal tribe ↘</p> <table border="1"> <tr> <td style="width: 40px; height: 20px;"></td> <td style="width: 40px; height: 20px;"></td> <td style="width: 40px; height: 20px;"></td> <td style="width: 40px; height: 20px;"></td> <td style="width: 40px; height: 20px;"></td> <td style="width: 40px; height: 20px;"></td> </tr> </table> <p>1 <input type="checkbox"/> Not enrolled in a tribe 2 <input type="checkbox"/> Don't have a principal tribe 3 <input type="checkbox"/> Don't know the name of the tribe</p>								<p>Print name of enrolled or principal tribe ↘</p> <table border="1"> <tr> <td style="width: 40px; height: 20px;"></td> <td style="width: 40px; height: 20px;"></td> <td style="width: 40px; height: 20px;"></td> <td style="width: 40px; height: 20px;"></td> <td style="width: 40px; height: 20px;"></td> <td style="width: 40px; height: 20px;"></td> </tr> </table> <p>1 <input type="checkbox"/> Not enrolled in a tribe 2 <input type="checkbox"/> Don't have a principal tribe 3 <input type="checkbox"/> Don't know the name of the tribe</p>							
<p>If a single response or a multiple response is given in 5c, for the first tribe reported, ask —</p> <p>d. Is the (Read tribe entered in 5c) tribe . . . 's enrolled tribe or . . . 's principal tribal affiliation?</p>	<p>1 <input type="checkbox"/> Yes, enrolled tribe 2 <input type="checkbox"/> Yes, principal tribal affiliation 3 <input type="checkbox"/> No</p>		<p>1 <input type="checkbox"/> Yes, enrolled tribe 2 <input type="checkbox"/> Yes, principal tribal affiliation 3 <input type="checkbox"/> No</p>													
<p>If multiple response in 5c, continue with 5e below. Otherwise, skip to 6.</p> <p>e. Is the (Read second tribe entered in 5c) tribe . . . 's enrolled tribe or . . . 's principal tribal affiliation?</p>	<p>1 <input type="checkbox"/> Yes, enrolled tribe 2 <input type="checkbox"/> Yes, principal tribal affiliation 3 <input type="checkbox"/> No</p>		<p>1 <input type="checkbox"/> Yes, enrolled tribe 2 <input type="checkbox"/> Yes, principal tribal affiliation 3 <input type="checkbox"/> No</p>													
<p>6. Is . . . now married, widowed, divorced, separated, or has . . . never been married? Mark (X) ONE box for each person.</p>	<p>1 <input type="checkbox"/> Now married 4 <input type="checkbox"/> Separated 2 <input type="checkbox"/> Widowed 5 <input type="checkbox"/> Never married 3 <input type="checkbox"/> Divorced</p>		<p>1 <input type="checkbox"/> Now married 4 <input type="checkbox"/> Separated 2 <input type="checkbox"/> Widowed 5 <input type="checkbox"/> Never married 3 <input type="checkbox"/> Divorced</p>													
<p>7a. Is . . . of Spanish/Hispanic origin? For example: Mexican, Mexican-American, Chicano, Puerto Rican, Cuban, Spaniard, or from the Spanish-speaking countries of Central or South America. If "Yes," ask — With which Spanish/Hispanic group does . . . identify? If "Other Spanish/Hispanic," mark the appropriate box and print no more than two groups in the space provided.</p>	<p>1 <input type="checkbox"/> No (not Spanish/Hispanic) 2 <input type="checkbox"/> Yes, Mexican, Mexican-American, Chicano 3 <input type="checkbox"/> Yes, Puerto Rican 4 <input type="checkbox"/> Yes, Cuban 5 <input type="checkbox"/> Yes, other Spanish/Hispanic — Print group, for example: Argentinean, Colombian, Dominican, Nicaraguan, Salvadoran, Spaniard, and so on. ↘</p> <table border="1"> <tr> <td style="width: 40px; height: 20px;"></td> <td style="width: 40px; height: 20px;"></td> <td style="width: 40px; height: 20px;"></td> <td style="width: 40px; height: 20px;"></td> </tr> </table> <p>If a single group is given, skip to 8a. For two or more groups, continue with 7b.</p>						<p>1 <input type="checkbox"/> No (not Spanish/Hispanic) 2 <input type="checkbox"/> Yes, Mexican, Mexican-American, Chicano 3 <input type="checkbox"/> Yes, Puerto Rican 4 <input type="checkbox"/> Yes, Cuban 5 <input type="checkbox"/> Yes, other Spanish/Hispanic — Print group, for example: Argentinean, Colombian, Dominican, Nicaraguan, Salvadoran, Spaniard, and so on. ↘</p> <table border="1"> <tr> <td style="width: 40px; height: 20px;"></td> <td style="width: 40px; height: 20px;"></td> <td style="width: 40px; height: 20px;"></td> <td style="width: 40px; height: 20px;"></td> </tr> </table> <p>If a single group is given, skip to 8a. For two or more groups, continue with 7b.</p>									
<p>b. . . . reported more than one group in the "Yes, other Spanish/Hispanic" category; with which one of these groups does . . . most closely identify?</p>	<p>Print ONE group ↘</p> <table border="1"> <tr> <td style="width: 40px; height: 20px;"></td> <td style="width: 40px; height: 20px;"></td> <td style="width: 40px; height: 20px;"></td> </tr> </table>					<p>Print ONE group ↘</p> <table border="1"> <tr> <td style="width: 40px; height: 20px;"></td> <td style="width: 40px; height: 20px;"></td> <td style="width: 40px; height: 20px;"></td> </tr> </table>										

PERSON 3		PERSON 4		PERSON 5	
Last name	Person No. from label	Last name	Person No. from label	Last name	Person No. from label
First name	Middle initial	First name	Middle initial	First name	Middle initial
1 <input type="checkbox"/> Still lives here — Ask 1e 2 <input type="checkbox"/> No longer lives here (Moved, dead, unknown, etc.) — Skip to next person		1 <input type="checkbox"/> Still lives here — Ask 1e 2 <input type="checkbox"/> No longer lives here (Moved, dead, unknown, etc.) — Skip to next person		1 <input type="checkbox"/> Still lives here — Ask 1e 2 <input type="checkbox"/> No longer lives here (Moved, dead, unknown, etc.) — Skip to next person	
1 <input type="checkbox"/> Yes } Go to 1d for next person listed. If all complete, skip to Check Item B. 2 <input type="checkbox"/> No }		1 <input type="checkbox"/> Yes } Go to 1d for next person listed. If all complete, skip to Check Item B. 2 <input type="checkbox"/> No }		1 <input type="checkbox"/> Yes } Go to 1d for next person listed. If all complete, skip to Check Item B. 2 <input type="checkbox"/> No }	
1 <input type="checkbox"/> Self response 2 <input type="checkbox"/> Proxy — Print proxy's person number → 3 <input type="text"/>		1 <input type="checkbox"/> Self response 2 <input type="checkbox"/> Proxy — Print proxy's person number → 3 <input type="text"/>		1 <input type="checkbox"/> Self response 2 <input type="checkbox"/> Proxy — Print proxy's person number → 3 <input type="text"/>	
1 <input type="checkbox"/> Male 2 <input type="checkbox"/> Female		1 <input type="checkbox"/> Male 2 <input type="checkbox"/> Female		1 <input type="checkbox"/> Male 2 <input type="checkbox"/> Female	
Age <input type="text"/> <input type="text"/> <input type="text"/>		Age <input type="text"/> <input type="text"/> <input type="text"/>		Age <input type="text"/> <input type="text"/> <input type="text"/>	
Print ONE group ↘ <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Skip to 6		Print ONE group ↘ <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Skip to 6		Print ONE group ↘ <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Skip to 6	
Print name of enrolled or principal tribe ↘ <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>		Print name of enrolled or principal tribe ↘ <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>		Print name of enrolled or principal tribe ↘ <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	
1 <input type="checkbox"/> Not enrolled in a tribe 2 <input type="checkbox"/> Don't have a principal tribe 3 <input type="checkbox"/> Don't know the name of the tribe } Skip to 6		1 <input type="checkbox"/> Not enrolled in a tribe 2 <input type="checkbox"/> Don't have a principal tribe 3 <input type="checkbox"/> Don't know the name of the tribe } Skip to 6		1 <input type="checkbox"/> Not enrolled in a tribe 2 <input type="checkbox"/> Don't have a principal tribe 3 <input type="checkbox"/> Don't know the name of the tribe } Skip to 6	
1 <input type="checkbox"/> Yes, enrolled tribe 2 <input type="checkbox"/> Yes, principal tribal affiliation 3 <input type="checkbox"/> No		1 <input type="checkbox"/> Yes, enrolled tribe 2 <input type="checkbox"/> Yes, principal tribal affiliation 3 <input type="checkbox"/> No		1 <input type="checkbox"/> Yes, enrolled tribe 2 <input type="checkbox"/> Yes, principal tribal affiliation 3 <input type="checkbox"/> No	
1 <input type="checkbox"/> Yes, enrolled tribe 2 <input type="checkbox"/> Yes, principal tribal affiliation 3 <input type="checkbox"/> No		1 <input type="checkbox"/> Yes, enrolled tribe 2 <input type="checkbox"/> Yes, principal tribal affiliation 3 <input type="checkbox"/> No		1 <input type="checkbox"/> Yes, enrolled tribe 2 <input type="checkbox"/> Yes, principal tribal affiliation 3 <input type="checkbox"/> No	
1 <input type="checkbox"/> Now married 4 <input type="checkbox"/> Separated 2 <input type="checkbox"/> Widowed 5 <input type="checkbox"/> Never married 3 <input type="checkbox"/> Divorced		1 <input type="checkbox"/> Now married 4 <input type="checkbox"/> Separated 2 <input type="checkbox"/> Widowed 5 <input type="checkbox"/> Never married 3 <input type="checkbox"/> Divorced		1 <input type="checkbox"/> Now married 4 <input type="checkbox"/> Separated 2 <input type="checkbox"/> Widowed 5 <input type="checkbox"/> Never married 3 <input type="checkbox"/> Divorced	
1 <input type="checkbox"/> No (not Spanish/Hispanic) 2 <input type="checkbox"/> Yes, Mexican, Mexican-American, Chicano } Skip to 8a 3 <input type="checkbox"/> Yes, Puerto Rican 4 <input type="checkbox"/> Yes, Cuban 5 <input type="checkbox"/> Yes, other Spanish/Hispanic — Print group, for example: Argentinean, Colombian, Dominican, Nicaraguan, Salvadoran, Spaniard, and so on. ↘		1 <input type="checkbox"/> No (not Spanish/Hispanic) 2 <input type="checkbox"/> Yes, Mexican, Mexican-American, Chicano } Skip to 8a 3 <input type="checkbox"/> Yes, Puerto Rican 4 <input type="checkbox"/> Yes, Cuban 5 <input type="checkbox"/> Yes, other Spanish/Hispanic — Print group, for example: Argentinean, Colombian, Dominican, Nicaraguan, Salvadoran, Spaniard, and so on. ↘		1 <input type="checkbox"/> No (not Spanish/Hispanic) 2 <input type="checkbox"/> Yes, Mexican, Mexican-American, Chicano } Skip to 8a 3 <input type="checkbox"/> Yes, Puerto Rican 4 <input type="checkbox"/> Yes, Cuban 5 <input type="checkbox"/> Yes, other Spanish/Hispanic — Print group, for example: Argentinean, Colombian, Dominican, Nicaraguan, Salvadoran, Spaniard, and so on. ↘	
<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>		<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>		<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	
If a single group is given, skip to 8a. For two or more groups, continue with 7b.		If a single group is given, skip to 8a. For two or more groups, continue with 7b.		If a single group is given, skip to 8a. For two or more groups, continue with 7b.	
Print ONE group ↘ <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>		Print ONE group ↘ <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>		Print ONE group ↘ <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	

Section IV — HOUSEHOLD ROSTER	PERSON 1		PERSON 2	
	Last name	Person No. from label	Last name	Person No. from label
	First name	Middle initial	First name	Middle initial
<p><i>Transcribe the person names from the label in person number order to the columns at the right.</i></p> <p>1d. Does . . . still live here? If NONE of the persons live here, END INTERVIEW and complete Sections II and III.</p> <p>e. Is . . . under 15 years of age? If "Don't know," say — Please give me your best estimate.</p>	<p>1 <input type="checkbox"/> Still lives here — Ask 1e</p> <p>2 <input type="checkbox"/> No longer lives here (Moved, dead, unknown, etc.) — Skip to next person</p>	<p>1 <input type="checkbox"/> Still lives here — Ask 1e</p> <p>2 <input type="checkbox"/> No longer lives here (Moved, dead, unknown, etc.) — Skip to next person</p>	<p>1 <input type="checkbox"/> Yes } Go to 1d for next person listed. If all complete, skip to Check Item B.</p> <p>2 <input type="checkbox"/> No }</p>	<p>1 <input type="checkbox"/> Yes } Go to 1d for next person listed. If all complete, skip to Check Item B.</p> <p>2 <input type="checkbox"/> No }</p>
<p>CHECK ITEM B</p> <p>Continue in the appropriate column for the current respondent. Mark (X) ONE box to indicate the status of the respondent.</p>	<p>1 <input type="checkbox"/> Self response</p> <p>2 <input type="checkbox"/> Proxy — Print proxy's person number → 3 <input type="text"/></p>	<p>1 <input type="checkbox"/> Self response</p> <p>2 <input type="checkbox"/> Proxy — Print proxy's person number → 3 <input type="text"/></p>		
<p>2. Is . . . male or female?</p>	<p>1 <input type="checkbox"/> Male 2 <input type="checkbox"/> Female</p>	<p>1 <input type="checkbox"/> Male 2 <input type="checkbox"/> Female</p>		
<p>3a. How old is . . . ? If "Don't know," say — Please give me your best estimate.</p>	<p>Age</p> <p><input type="text"/> <input type="text"/> <input type="text"/></p>	<p>Age</p> <p><input type="text"/> <input type="text"/> <input type="text"/></p>		
<p>8a. In what U.S. State or foreign country was . . . born? If born in a hospital, give location of the hospital.</p>	<p>Print the name of the State or foreign country; or Puerto Rico, Guam, etc. ↘</p> <p><input type="text"/></p> <p><input type="text"/> <input type="text"/> <input type="text"/></p>	<p>Print the name of the State or foreign country; or Puerto Rico, Guam, etc. ↘</p> <p><input type="text"/></p> <p><input type="text"/> <input type="text"/> <input type="text"/></p>		
<p>b. When . . . was born in (Read entry in 8a) was . . . 's mother living in a different State or foreign country?</p>	<p>1 <input type="checkbox"/> Yes — Continue with 8c</p> <p>2 <input type="checkbox"/> No, same State/country } Skip to 9</p> <p>3 <input type="checkbox"/> Don't know }</p>	<p>1 <input type="checkbox"/> Yes — Continue with 8c</p> <p>2 <input type="checkbox"/> No, same State/country } Skip to 9</p> <p>3 <input type="checkbox"/> Don't know }</p>		
<p>c. Where did . . . 's mother live at the time of . . . 's birth?</p>	<p>Print the name of the State or foreign country; or Puerto Rico, Guam, etc. ↘</p> <p><input type="text"/></p> <p><input type="text"/> <input type="text"/> <input type="text"/></p>	<p>Print the name of the State or foreign country; or Puerto Rico, Guam, etc. ↘</p> <p><input type="text"/></p> <p><input type="text"/> <input type="text"/> <input type="text"/></p>		
<p>9. If the answer to question 8a corresponds to one of the first two "Yes" categories listed, mark the appropriate "Yes" category. Otherwise, ask —</p> <p>a. Is . . . a CITIZEN of the United States? That is, does . . . have at least one American parent or is . . . a citizen by naturalization?</p>	<p>1 <input type="checkbox"/> Yes, born in the United States — Skip to 10</p> <p>2 <input type="checkbox"/> Yes, born in Puerto Rico, Guam, the U.S. Virgin Islands, or Northern Marianas — Skip to 9c</p> <p>3 <input type="checkbox"/> Yes, born abroad of American parent or parents — Skip to 9c</p> <p>4 <input type="checkbox"/> Yes, U.S. citizen by naturalization — Continue with 9b</p> <p>5 <input type="checkbox"/> No, not a citizen of the United States — Skip to 9c</p>	<p>1 <input type="checkbox"/> Yes, born in the United States — Skip to 10</p> <p>2 <input type="checkbox"/> Yes, born in Puerto Rico, Guam, the U.S. Virgin Islands, or Northern Marianas — Skip to 9c</p> <p>3 <input type="checkbox"/> Yes, born abroad of American parent or parents — Skip to 9c</p> <p>4 <input type="checkbox"/> Yes, U.S. citizen by naturalization — Continue with 9b</p> <p>5 <input type="checkbox"/> No, not a citizen of the United States — Skip to 9c</p>		
<p>b. In what month and year did . . . receive final naturalization papers?</p>	<p>Month Year</p> <p><input type="text"/> <input type="text"/> 1 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/></p> <p>1 <input type="checkbox"/> Did not receive final naturalization papers</p>	<p>Month Year</p> <p><input type="text"/> <input type="text"/> 1 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/></p> <p>1 <input type="checkbox"/> Did not receive final naturalization papers</p>		
<p>c. Ask of all persons not born in the U.S. In what month and year did . . . come to the United States to stay?</p>	<p>Month Year</p> <p><input type="text"/> <input type="text"/> 1 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/></p>	<p>Month Year</p> <p><input type="text"/> <input type="text"/> 1 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/></p>		

PERSON 3		PERSON 4		PERSON 5	
Last name	Person No. from label	Last name	Person No. from label	Last name	Person No. from label
First name	Middle initial	First name	Middle initial	First name	Middle initial
1 <input type="checkbox"/> Still lives here — Ask 1e 2 <input type="checkbox"/> No longer lives here (Moved, dead, unknown, etc.) — Skip to next person		1 <input type="checkbox"/> Still lives here — Ask 1e 2 <input type="checkbox"/> No longer lives here (Moved, dead, unknown, etc.) — Skip to next person		1 <input type="checkbox"/> Still lives here — Ask 1e 2 <input type="checkbox"/> No longer lives here (Moved, dead, unknown, etc.) — Skip to next person	
1 <input type="checkbox"/> Yes } Go to 1d for next person listed. If all complete, skip to Check Item B. 2 <input type="checkbox"/> No }		1 <input type="checkbox"/> Yes } Go to 1d for next person listed. If all complete, skip to Check Item B. 2 <input type="checkbox"/> No }		1 <input type="checkbox"/> Yes } Go to 1d for next person listed. If all complete, skip to Check Item B. 2 <input type="checkbox"/> No }	
1 <input type="checkbox"/> Self response 2 <input type="checkbox"/> Proxy — Print proxy's person number → 3 <input type="text"/>		1 <input type="checkbox"/> Self response 2 <input type="checkbox"/> Proxy — Print proxy's person number → 3 <input type="text"/>		1 <input type="checkbox"/> Self response 2 <input type="checkbox"/> Proxy — Print proxy's person number → 3 <input type="text"/>	
1 <input type="checkbox"/> Male 2 <input type="checkbox"/> Female		1 <input type="checkbox"/> Male 2 <input type="checkbox"/> Female		1 <input type="checkbox"/> Male 2 <input type="checkbox"/> Female	
Age <input type="text"/>		Age <input type="text"/>		Age <input type="text"/>	
Print the name of the State or foreign country; or Puerto Rico, Guam, etc. ↘ <input type="text"/>		Print the name of the State or foreign country; or Puerto Rico, Guam, etc. ↘ <input type="text"/>		Print the name of the State or foreign country; or Puerto Rico, Guam, etc. ↘ <input type="text"/>	
1 <input type="checkbox"/> Yes — Continue with 8c 2 <input type="checkbox"/> No, same State/country } Skip to 9 3 <input type="checkbox"/> Don't know		1 <input type="checkbox"/> Yes — Continue with 8c 2 <input type="checkbox"/> No, same State/country } Skip to 9 3 <input type="checkbox"/> Don't know		1 <input type="checkbox"/> Yes — Continue with 8c 2 <input type="checkbox"/> No, same State/country } Skip to 9 3 <input type="checkbox"/> Don't know	
Print the name of the State or foreign country; or Puerto Rico, Guam, etc. ↘ <input type="text"/>		Print the name of the State or foreign country; or Puerto Rico, Guam, etc. ↘ <input type="text"/>		Print the name of the State or foreign country; or Puerto Rico, Guam, etc. ↘ <input type="text"/>	
1 <input type="checkbox"/> Yes, born in the United States — Skip to 10 2 <input type="checkbox"/> Yes, born in Puerto Rico, Guam, the U.S. Virgin Islands, or Northern Marianas — Skip to 9c 3 <input type="checkbox"/> Yes, born abroad of American parent or parents — Skip to 9c 4 <input type="checkbox"/> Yes, U.S. citizen by naturalization — Continue with 9b 5 <input type="checkbox"/> No, not a citizen of the United States — Skip to 9c		1 <input type="checkbox"/> Yes, born in the United States — Skip to 10 2 <input type="checkbox"/> Yes, born in Puerto Rico, Guam, the U.S. Virgin Islands, or Northern Marianas — Skip to 9c 3 <input type="checkbox"/> Yes, born abroad of American parent or parents — Skip to 9c 4 <input type="checkbox"/> Yes, U.S. citizen by naturalization — Continue with 9b 5 <input type="checkbox"/> No, not a citizen of the United States — Skip to 9c		1 <input type="checkbox"/> Yes, born in the United States — Skip to 10 2 <input type="checkbox"/> Yes, born in Puerto Rico, Guam, the U.S. Virgin Islands, or Northern Marianas — Skip to 9c 3 <input type="checkbox"/> Yes, born abroad of American parent or parents — Skip to 9c 4 <input type="checkbox"/> Yes, U.S. citizen by naturalization — Continue with 9b 5 <input type="checkbox"/> No, not a citizen of the United States — Skip to 9c	
Month <input type="text"/> Year <input type="text"/>		Month <input type="text"/> Year <input type="text"/>		Month <input type="text"/> Year <input type="text"/>	
1 <input type="checkbox"/> Did not receive final naturalization papers		1 <input type="checkbox"/> Did not receive final naturalization papers		1 <input type="checkbox"/> Did not receive final naturalization papers	
Month <input type="text"/> Year <input type="text"/>		Month <input type="text"/> Year <input type="text"/>		Month <input type="text"/> Year <input type="text"/>	

Section IV — HOUSEHOLD ROSTER	PERSON 1		PERSON 2																																																																																					
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<p><i>Transcribe the person names from the label in person number order to the columns at the right.</i></p> <p>1d. Does . . . still live here? If NONE of the persons live here, END INTERVIEW and complete Sections II and III.</p> <p>e. Is . . . under 15 years of age? If "Don't know," say — Please give me your best estimate.</p>	<p>1 <input type="checkbox"/> Still lives here — Ask 1e</p> <p>2 <input type="checkbox"/> No longer lives here (Moved, dead, unknown, etc.) — Skip to next person</p>	<p>1 <input type="checkbox"/> Still lives here — Ask 1e</p> <p>2 <input type="checkbox"/> No longer lives here (Moved, dead, unknown, etc.) — Skip to next person</p>	<p>1 <input type="checkbox"/> Yes } Go to 1d for next person listed. If all complete, skip to Check Item B.</p> <p>2 <input type="checkbox"/> No }</p>	<p>1 <input type="checkbox"/> Yes } Go to 1d for next person listed. If all complete, skip to Check Item B.</p> <p>2 <input type="checkbox"/> No }</p>																																																																																				
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3a. How old is . . . ? <i>If "Don't know," say — Please give me your best estimate.</i>	<p>Age <input type="text"/></p>	<p>Age <input type="text"/></p>																																																																																						
10. At any time from February 1, 1990 to April 1, 1990, did . . . attend regular school or college? Include only nursery school, kindergarten, elementary school, and schooling which leads to a high school diploma or college degree. <i>If "Yes," ask — Public or private?</i>	<p>1 <input type="checkbox"/> No, did not attend during this period</p> <p>2 <input type="checkbox"/> Yes, public school, public college</p> <p>3 <input type="checkbox"/> Yes, private school, private college</p>	<p>1 <input type="checkbox"/> No, did not attend during this period</p> <p>2 <input type="checkbox"/> Yes, public school, public college</p> <p>3 <input type="checkbox"/> Yes, private school, private college</p>																																																																																						
11. As of April 1, 1990, what was the highest grade (or year) of regular school . . . had ever ATTENDED? <i>If . . . did attend school at any time from February 1, 1990 to April 1, 1990, mark (X) ONE box for the grade . . . attended during this period.</i> <i>If high school was finished by an equivalency test (GED) and . . . did not attend college, mark (X) "12."</i>	<p>40 <input type="checkbox"/> Never attended school — Skip to Check Item C</p> <p>41 <input type="checkbox"/> Nursery school</p> <p>42 <input type="checkbox"/> Kindergarten</p> <p>Elementary or High School (Grade)</p> <table border="0"> <tr> <td>1 <input type="checkbox"/></td><td>2 <input type="checkbox"/></td><td>3 <input type="checkbox"/></td><td>4 <input type="checkbox"/></td><td>5 <input type="checkbox"/></td><td>6 <input type="checkbox"/></td> </tr> <tr> <td>01</td><td>02</td><td>03</td><td>04</td><td>05</td><td>06</td> </tr> <tr> <td>7 <input type="checkbox"/></td><td>8 <input type="checkbox"/></td><td>9 <input type="checkbox"/></td><td>10 <input type="checkbox"/></td><td>11 <input type="checkbox"/></td><td>12 <input type="checkbox"/></td> </tr> <tr> <td>07</td><td>08</td><td>09</td><td>10</td><td>11</td><td>12</td> </tr> </table> <p>College (Academic year)</p> <table border="0"> <tr> <td>1 <input type="checkbox"/></td><td>2 <input type="checkbox"/></td><td>3 <input type="checkbox"/></td><td>4 <input type="checkbox"/></td><td>5 <input type="checkbox"/></td><td>6 <input type="checkbox"/></td><td>7 <input type="checkbox"/></td><td>8 <input type="checkbox"/></td><td>9 or more <input type="checkbox"/></td> </tr> <tr> <td>C1</td><td>C2</td><td>C3</td><td>C4</td><td>C5</td><td>C6</td><td>C7</td><td>C8</td><td>C9</td> </tr> </table>	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>	6 <input type="checkbox"/>	01	02	03	04	05	06	7 <input type="checkbox"/>	8 <input type="checkbox"/>	9 <input type="checkbox"/>	10 <input type="checkbox"/>	11 <input type="checkbox"/>	12 <input type="checkbox"/>	07	08	09	10	11	12	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>	6 <input type="checkbox"/>	7 <input type="checkbox"/>	8 <input type="checkbox"/>	9 or more <input type="checkbox"/>	C1	C2	C3	C4	C5	C6	C7	C8	C9	<p>40 <input type="checkbox"/> Never attended school — Skip to Check Item C</p> <p>41 <input type="checkbox"/> Nursery school</p> <p>42 <input type="checkbox"/> Kindergarten</p> <p>Elementary or High School (Grade)</p> <table border="0"> <tr> <td>1 <input type="checkbox"/></td><td>2 <input type="checkbox"/></td><td>3 <input type="checkbox"/></td><td>4 <input type="checkbox"/></td><td>5 <input type="checkbox"/></td><td>6 <input type="checkbox"/></td> </tr> <tr> <td>01</td><td>02</td><td>03</td><td>04</td><td>05</td><td>06</td> </tr> <tr> <td>7 <input type="checkbox"/></td><td>8 <input type="checkbox"/></td><td>9 <input type="checkbox"/></td><td>10 <input type="checkbox"/></td><td>11 <input type="checkbox"/></td><td>12 <input type="checkbox"/></td> </tr> <tr> <td>07</td><td>08</td><td>09</td><td>10</td><td>11</td><td>12</td> </tr> </table> <p>College (Academic year)</p> <table border="0"> <tr> <td>1 <input type="checkbox"/></td><td>2 <input type="checkbox"/></td><td>3 <input type="checkbox"/></td><td>4 <input type="checkbox"/></td><td>5 <input type="checkbox"/></td><td>6 <input type="checkbox"/></td><td>7 <input type="checkbox"/></td><td>8 <input type="checkbox"/></td><td>9 or more <input type="checkbox"/></td> </tr> <tr> <td>C1</td><td>C2</td><td>C3</td><td>C4</td><td>C5</td><td>C6</td><td>C7</td><td>C8</td><td>C9</td> </tr> </table>	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>	6 <input type="checkbox"/>	01	02	03	04	05	06	7 <input type="checkbox"/>	8 <input type="checkbox"/>	9 <input type="checkbox"/>	10 <input type="checkbox"/>	11 <input type="checkbox"/>	12 <input type="checkbox"/>	07	08	09	10	11	12	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>	6 <input type="checkbox"/>	7 <input type="checkbox"/>	8 <input type="checkbox"/>	9 or more <input type="checkbox"/>	C1	C2	C3	C4	C5	C6	C7	C8	C9		
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C1	C2	C3	C4	C5	C6	C7	C8	C9																																																																																
12. As of April 1, 1990, had . . . finished the highest grade (or year) attended?	<p>1 <input type="checkbox"/> No, was attending this grade (or year)</p> <p>2 <input type="checkbox"/> No, had not finished this grade (or year)</p> <p>3 <input type="checkbox"/> Yes, had finished this grade (or year)</p>	<p>1 <input type="checkbox"/> No, was attending this grade (or year)</p> <p>2 <input type="checkbox"/> No, had not finished this grade (or year)</p> <p>3 <input type="checkbox"/> Yes, had finished this grade (or year)</p>																																																																																						
CHECK ITEM C																																																																																								
<p>Refer to age (question 3a) and highest grade attended (question 11).</p>	<p>1 <input type="checkbox"/> Age is less than 15 years — Skip to 14a</p> <p>Age is 15 years or older and . . .</p> <p>2 <input type="checkbox"/> Highest grade attended is the seventh grade or less — Skip to 13c</p> <p>3 <input type="checkbox"/> Highest grade attended is eighth grade or higher — Continue with 13a</p>	<p>1 <input type="checkbox"/> Age is less than 15 years — Skip to 14a</p> <p>Age is 15 years or older and . . .</p> <p>2 <input type="checkbox"/> Highest grade attended is the seventh grade or less — Skip to 13c</p> <p>3 <input type="checkbox"/> Highest grade attended is eighth grade or higher — Continue with 13a</p>																																																																																						
13a. As of April 1, 1990, how much school had . . . COMPLETED? <i>Read each category and mark (X) ONE box for the highest level COMPLETED or degree RECEIVED.</i> <i>Mark "Other" and print the degree only if respondent cannot choose a category.</i>	<p>1 <input type="checkbox"/> Less than a high school degree or diploma</p> <p>2 <input type="checkbox"/> High school graduate or the equivalent (For example: GED)</p> <p>3 <input type="checkbox"/> Some college but no degree</p> <p>4 <input type="checkbox"/> Associate degree in college</p> <p>5 <input type="checkbox"/> Bachelor's degree (For example: BA, AB, BS)</p> <p>6 <input type="checkbox"/> Master's degree (For example: MA, MS, MEng, MEd, MSW, MBA)</p> <p>7 <input type="checkbox"/> Professional school degree (For example: MD, DDS, DVM, LLB, JD)</p> <p>8 <input type="checkbox"/> Doctorate degree (For example: PhD, EdD)</p> <p>9 <input type="checkbox"/> Other — Specify <input type="text"/></p> <p><i>If Associate degree, continue with 13b. Otherwise, skip to 13c.</i></p>	<p>1 <input type="checkbox"/> Less than a high school degree or diploma</p> <p>2 <input type="checkbox"/> High school graduate or the equivalent (For example: GED)</p> <p>3 <input type="checkbox"/> Some college but no degree</p> <p>4 <input type="checkbox"/> Associate degree in college</p> <p>5 <input type="checkbox"/> Bachelor's degree (For example: BA, AB, BS)</p> <p>6 <input type="checkbox"/> Master's degree (For example: MA, MS, MEng, MEd, MSW, MBA)</p> <p>7 <input type="checkbox"/> Professional school degree (For example: MD, DDS, DVM, LLB, JD)</p> <p>8 <input type="checkbox"/> Doctorate degree (For example: PhD, EdD)</p> <p>9 <input type="checkbox"/> Other — Specify <input type="text"/></p> <p><i>If Associate degree, continue with 13b. Otherwise, skip to 13c.</i></p>																																																																																						
b. Was this Associate degree in an occupational program or in an academic program?	<p>1 <input type="checkbox"/> Occupational program</p> <p>2 <input type="checkbox"/> Academic program</p>	<p>1 <input type="checkbox"/> Occupational program</p> <p>2 <input type="checkbox"/> Academic program</p>																																																																																						
c. Did . . . complete high school by graduating, or by taking an equivalency test of some kind (for example, a GED exam)?	<p>1 <input type="checkbox"/> Graduated from high school</p> <p>2 <input type="checkbox"/> Took GED or equivalent</p> <p>3 <input type="checkbox"/> Did not complete high school</p>	<p>1 <input type="checkbox"/> Graduated from high school</p> <p>2 <input type="checkbox"/> Took GED or equivalent</p> <p>3 <input type="checkbox"/> Did not complete high school</p>																																																																																						

PERSON 3		PERSON 4		PERSON 5	
Last name	Person No. from label	Last name	Person No. from label	Last name	Person No. from label
First name	Middle initial	First name	Middle initial	First name	Middle initial
1 <input type="checkbox"/> Still lives here — Ask 1e 2 <input type="checkbox"/> No longer lives here (Moved, dead, unknown, etc.) — Skip to next person		1 <input type="checkbox"/> Still lives here — Ask 1e 2 <input type="checkbox"/> No longer lives here (Moved, dead, unknown, etc.) — Skip to next person		1 <input type="checkbox"/> Still lives here — Ask 1e 2 <input type="checkbox"/> No longer lives here (Moved, dead, unknown, etc.) — Skip to next person	
1 <input type="checkbox"/> Yes } Go to 1d for next person listed. If all complete, skip to Check Item B. 2 <input type="checkbox"/> No }		1 <input type="checkbox"/> Yes } Go to 1d for next person listed. If all complete, skip to Check Item B. 2 <input type="checkbox"/> No }		1 <input type="checkbox"/> Yes } Go to 1d for next person listed. If all complete, skip to Check Item B. 2 <input type="checkbox"/> No }	
1 <input type="checkbox"/> Self response 2 <input type="checkbox"/> Proxy — Print proxy's person number → 3 <input type="text"/>		1 <input type="checkbox"/> Self response 2 <input type="checkbox"/> Proxy — Print proxy's person number → 3 <input type="text"/>		1 <input type="checkbox"/> Self response 2 <input type="checkbox"/> Proxy — Print proxy's person number → 3 <input type="text"/>	
1 <input type="checkbox"/> Male 2 <input type="checkbox"/> Female		1 <input type="checkbox"/> Male 2 <input type="checkbox"/> Female		1 <input type="checkbox"/> Male 2 <input type="checkbox"/> Female	
Age <input type="text"/> <input type="text"/> <input type="text"/>		Age <input type="text"/> <input type="text"/> <input type="text"/>		Age <input type="text"/> <input type="text"/> <input type="text"/>	
1 <input type="checkbox"/> No, did not attend during this period 2 <input type="checkbox"/> Yes, public school, public college 3 <input type="checkbox"/> Yes, private school, private college		1 <input type="checkbox"/> No, did not attend during this period 2 <input type="checkbox"/> Yes, public school, public college 3 <input type="checkbox"/> Yes, private school, private college		1 <input type="checkbox"/> No, did not attend during this period 2 <input type="checkbox"/> Yes, public school, public college 3 <input type="checkbox"/> Yes, private school, private college	
40 <input type="checkbox"/> Never attended school — Skip to Check Item C 41 <input type="checkbox"/> Nursery school 42 <input type="checkbox"/> Kindergarten Elementary or High School (Grade) 1 <input type="checkbox"/> 01 2 <input type="checkbox"/> 02 3 <input type="checkbox"/> 03 4 <input type="checkbox"/> 04 5 <input type="checkbox"/> 05 6 <input type="checkbox"/> 06 7 <input type="checkbox"/> 07 8 <input type="checkbox"/> 08 9 <input type="checkbox"/> 09 10 <input type="checkbox"/> 10 11 <input type="checkbox"/> 11 12 <input type="checkbox"/> 12 College (Academic year) 1 <input type="checkbox"/> C1 2 <input type="checkbox"/> C2 3 <input type="checkbox"/> C3 4 <input type="checkbox"/> C4 5 <input type="checkbox"/> C5 6 <input type="checkbox"/> C6 7 <input type="checkbox"/> C7 8 <input type="checkbox"/> C8 9 or more <input type="checkbox"/> C9		40 <input type="checkbox"/> Never attended school — Skip to Check Item C 41 <input type="checkbox"/> Nursery school 42 <input type="checkbox"/> Kindergarten Elementary or High School (Grade) 1 <input type="checkbox"/> 01 2 <input type="checkbox"/> 02 3 <input type="checkbox"/> 03 4 <input type="checkbox"/> 04 5 <input type="checkbox"/> 05 6 <input type="checkbox"/> 06 7 <input type="checkbox"/> 07 8 <input type="checkbox"/> 08 9 <input type="checkbox"/> 09 10 <input type="checkbox"/> 10 11 <input type="checkbox"/> 11 12 <input type="checkbox"/> 12 College (Academic year) 1 <input type="checkbox"/> C1 2 <input type="checkbox"/> C2 3 <input type="checkbox"/> C3 4 <input type="checkbox"/> C4 5 <input type="checkbox"/> C5 6 <input type="checkbox"/> C6 7 <input type="checkbox"/> C7 8 <input type="checkbox"/> C8 9 or more <input type="checkbox"/> C9		40 <input type="checkbox"/> Never attended school — Skip to Check Item C 41 <input type="checkbox"/> Nursery school 42 <input type="checkbox"/> Kindergarten Elementary or High School (Grade) 1 <input type="checkbox"/> 01 2 <input type="checkbox"/> 02 3 <input type="checkbox"/> 03 4 <input type="checkbox"/> 04 5 <input type="checkbox"/> 05 6 <input type="checkbox"/> 06 7 <input type="checkbox"/> 07 8 <input type="checkbox"/> 08 9 <input type="checkbox"/> 09 10 <input type="checkbox"/> 10 11 <input type="checkbox"/> 11 12 <input type="checkbox"/> 12 College (Academic year) 1 <input type="checkbox"/> C1 2 <input type="checkbox"/> C2 3 <input type="checkbox"/> C3 4 <input type="checkbox"/> C4 5 <input type="checkbox"/> C5 6 <input type="checkbox"/> C6 7 <input type="checkbox"/> C7 8 <input type="checkbox"/> C8 9 or more <input type="checkbox"/> C9	
1 <input type="checkbox"/> No, was attending this grade (or year) 2 <input type="checkbox"/> No, had not finished this grade (or year) 3 <input type="checkbox"/> Yes, had finished this grade (or year)		1 <input type="checkbox"/> No, was attending this grade (or year) 2 <input type="checkbox"/> No, had not finished this grade (or year) 3 <input type="checkbox"/> Yes, had finished this grade (or year)		1 <input type="checkbox"/> No, was attending this grade (or year) 2 <input type="checkbox"/> No, had not finished this grade (or year) 3 <input type="checkbox"/> Yes, had finished this grade (or year)	
1 <input type="checkbox"/> Age is less than 15 years — Skip to 14a Age is 15 years or older and . . . 2 <input type="checkbox"/> Highest grade attended is the seventh grade or less — Skip to 13c 3 <input type="checkbox"/> Highest grade attended is eighth grade or higher — Continue with 13a		1 <input type="checkbox"/> Age is less than 15 years — Skip to 14a Age is 15 years or older and . . . 2 <input type="checkbox"/> Highest grade attended is the seventh grade or less — Skip to 13c 3 <input type="checkbox"/> Highest grade attended is eighth grade or higher — Continue with 13a		1 <input type="checkbox"/> Age is less than 15 years — Skip to 14a Age is 15 years or older and . . . 2 <input type="checkbox"/> Highest grade attended is the seventh grade or less — Skip to 13c 3 <input type="checkbox"/> Highest grade attended is eighth grade or higher — Continue with 13a	
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If Associate degree, continue with 13b. Otherwise, skip to 13c.		If Associate degree, continue with 13b. Otherwise, skip to 13c.		If Associate degree, continue with 13b. Otherwise, skip to 13c.	
1 <input type="checkbox"/> Occupational program 2 <input type="checkbox"/> Academic program		1 <input type="checkbox"/> Occupational program 2 <input type="checkbox"/> Academic program		1 <input type="checkbox"/> Occupational program 2 <input type="checkbox"/> Academic program	
1 <input type="checkbox"/> Graduated from high school 2 <input type="checkbox"/> Took GED or equivalent 3 <input type="checkbox"/> Did not complete high school		1 <input type="checkbox"/> Graduated from high school 2 <input type="checkbox"/> Took GED or equivalent 3 <input type="checkbox"/> Did not complete high school		1 <input type="checkbox"/> Graduated from high school 2 <input type="checkbox"/> Took GED or equivalent 3 <input type="checkbox"/> Did not complete high school	

Section IV — HOUSEHOLD ROSTER	PERSON 1		PERSON 2																															
	Last name	Person No. from label	Last name	Person No. from label																														
	First name	Middle initial	First name	Middle initial																														
<p><i>Transcribe the person names from the label in person number order to the columns at the right.</i></p> <p>1d. Does . . . still live here? If NONE of the persons live here, END INTERVIEW and complete Sections II and III.</p> <p>e. Is . . . under 15 years of age? If "Don't know," say — Please give me your best estimate.</p>	1 <input type="checkbox"/> Still lives here — Ask 1e 2 <input type="checkbox"/> No longer lives here (Moved, dead, unknown, etc.) — Skip to next person		1 <input type="checkbox"/> Still lives here — Ask 1e 2 <input type="checkbox"/> No longer lives here (Moved, dead, unknown, etc.) — Skip to next person																															
<p>CHECK ITEM B</p> <p>Continue in the appropriate column for the current respondent. Mark (X) ONE box to indicate the status of the respondent.</p>	1 <input type="checkbox"/> Self response 2 <input type="checkbox"/> Proxy — Print proxy's person number → 3 <input type="text"/>		1 <input type="checkbox"/> Self response 2 <input type="checkbox"/> Proxy — Print proxy's person number → 3 <input type="text"/>																															
<p>2. Is . . . male or female?</p>	1 <input type="checkbox"/> Male 2 <input type="checkbox"/> Female		1 <input type="checkbox"/> Male 2 <input type="checkbox"/> Female																															
<p>3a. How old is . . . ? If "Don't know," say — Please give me your best estimate.</p>	Age <input type="text"/> <input type="text"/> <input type="text"/>		Age <input type="text"/> <input type="text"/> <input type="text"/>																															
<p>14a. What is . . . 's ancestry or ethnic origin? Ancestry means ethnic origin or descent, "roots," or heritage. For example: German, Italian, Afro-Amer., Croatian, Cape Verdean, Dominican, Ecuadoran, Haitian, Cajun, French Canadian, Jamaican, Korean, Lebanese, Mexican, Nigerian, Irish, Polish, Slovak, Taiwanese, Thai, Ukrainian, etc.</p>	Print group(s) <input checked="" type="checkbox"/> _____ <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>		Print group(s) <input checked="" type="checkbox"/> _____ <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>																															
<p>b. Of the two or more groups reported, with which one of these groups does . . . most closely identify?</p>	Print ONE group <input checked="" type="checkbox"/> _____ <input type="text"/> <input type="text"/> <input type="text"/>		Print ONE group <input checked="" type="checkbox"/> _____ <input type="text"/> <input type="text"/> <input type="text"/>																															
<p>15. Many people have ancestors who were born in other countries. I would like to ask you about the countries in which . . . 's ancestors were born.</p> <p>a. In what country were the following ancestors on . . . 's father's side born?</p>	<table border="1"> <thead> <tr> <th></th> <th>Ancestor</th> <th>Country</th> </tr> </thead> <tbody> <tr> <td><input type="text"/> <input type="text"/> <input type="text"/></td> <td>Your father</td> <td></td> </tr> <tr> <td><input type="text"/> <input type="text"/> <input type="text"/></td> <td>Father's father</td> <td></td> </tr> <tr> <td><input type="text"/> <input type="text"/> <input type="text"/></td> <td>Father's mother</td> <td></td> </tr> <tr> <td><input type="text"/> <input type="text"/> <input type="text"/></td> <td>Earlier generations on your father's side</td> <td></td> </tr> </tbody> </table>			Ancestor	Country	<input type="text"/> <input type="text"/> <input type="text"/>	Your father		<input type="text"/> <input type="text"/> <input type="text"/>	Father's father		<input type="text"/> <input type="text"/> <input type="text"/>	Father's mother		<input type="text"/> <input type="text"/> <input type="text"/>	Earlier generations on your father's side		<table border="1"> <thead> <tr> <th></th> <th>Ancestor</th> <th>Country</th> </tr> </thead> <tbody> <tr> <td><input type="text"/> <input type="text"/> <input type="text"/></td> <td>Your father</td> <td></td> </tr> <tr> <td><input type="text"/> <input type="text"/> <input type="text"/></td> <td>Father's father</td> <td></td> </tr> <tr> <td><input type="text"/> <input type="text"/> <input type="text"/></td> <td>Father's mother</td> <td></td> </tr> <tr> <td><input type="text"/> <input type="text"/> <input type="text"/></td> <td>Earlier generations on your father's side</td> <td></td> </tr> </tbody> </table>			Ancestor	Country	<input type="text"/> <input type="text"/> <input type="text"/>	Your father		<input type="text"/> <input type="text"/> <input type="text"/>	Father's father		<input type="text"/> <input type="text"/> <input type="text"/>	Father's mother		<input type="text"/> <input type="text"/> <input type="text"/>	Earlier generations on your father's side	
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<p>b. In what country were the following ancestors on . . . 's mother's side born?</p>	<table border="1"> <thead> <tr> <th></th> <th>Ancestor</th> <th>Country</th> </tr> </thead> <tbody> <tr> <td><input type="text"/> <input type="text"/> <input type="text"/></td> <td>Your mother</td> <td></td> </tr> <tr> <td><input type="text"/> <input type="text"/> <input type="text"/></td> <td>Mother's father</td> <td></td> </tr> <tr> <td><input type="text"/> <input type="text"/> <input type="text"/></td> <td>Mother's mother</td> <td></td> </tr> <tr> <td><input type="text"/> <input type="text"/> <input type="text"/></td> <td>Earlier generations on your mother's side</td> <td></td> </tr> </tbody> </table>			Ancestor	Country	<input type="text"/> <input type="text"/> <input type="text"/>	Your mother		<input type="text"/> <input type="text"/> <input type="text"/>	Mother's father		<input type="text"/> <input type="text"/> <input type="text"/>	Mother's mother		<input type="text"/> <input type="text"/> <input type="text"/>	Earlier generations on your mother's side		<table border="1"> <thead> <tr> <th></th> <th>Ancestor</th> <th>Country</th> </tr> </thead> <tbody> <tr> <td><input type="text"/> <input type="text"/> <input type="text"/></td> <td>Your mother</td> <td></td> </tr> <tr> <td><input type="text"/> <input type="text"/> <input type="text"/></td> <td>Mother's father</td> <td></td> </tr> <tr> <td><input type="text"/> <input type="text"/> <input type="text"/></td> <td>Mother's mother</td> <td></td> </tr> <tr> <td><input type="text"/> <input type="text"/> <input type="text"/></td> <td>Earlier generations on your mother's side</td> <td></td> </tr> </tbody> </table>			Ancestor	Country	<input type="text"/> <input type="text"/> <input type="text"/>	Your mother		<input type="text"/> <input type="text"/> <input type="text"/>	Mother's father		<input type="text"/> <input type="text"/> <input type="text"/>	Mother's mother		<input type="text"/> <input type="text"/> <input type="text"/>	Earlier generations on your mother's side	
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<input type="text"/> <input type="text"/> <input type="text"/>	Earlier generations on your mother's side																																	
<p>CHECK ITEM D</p> <p>Refer to questions 15a and 15b.</p>	1 <input type="checkbox"/> All responses to 15a and 15b indicate "USA," "U.S. State," or "Don't know" — Continue with 16 2 <input type="checkbox"/> Response of only one country other than "USA" in 15a and 15b — Skip to Check Item F 3 <input type="checkbox"/> Response of two or more countries other than "USA" in 15a and 15b — Skip to 17		1 <input type="checkbox"/> All responses to 15a and 15b indicate "USA," "U.S. State," or "Don't know" — Continue with 16 2 <input type="checkbox"/> Response of only one country other than "USA" in 15a and 15b — Skip to Check Item F 3 <input type="checkbox"/> Response of two or more countries other than "USA" in 15a and 15b — Skip to 17																															
<p>16. All of the ancestors you have told me about have been American (or don't know). In what country were your ancestors who FIRST came to the United States born?</p>	Print (country/countries) <input checked="" type="checkbox"/> _____ <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>		Print (country/countries) <input checked="" type="checkbox"/> _____ <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>																															
<p>CHECK ITEM E</p> <p>Refer to question 16.</p>	1 <input type="checkbox"/> Single, specific country, or don't know — Skip to Check Item F 2 <input type="checkbox"/> More than one country — Continue with 17		1 <input type="checkbox"/> Single, specific country, or don't know — Skip to Check Item F 2 <input type="checkbox"/> More than one country — Continue with 17																															
<p>17. Which one of the countries you reported best describes . . . 's ancestry? If necessary, read responses in 15a, 15b, or 16.</p>	Print country <input checked="" type="checkbox"/> _____ <input type="text"/> <input type="text"/> <input type="text"/>		Print country <input checked="" type="checkbox"/> _____ <input type="text"/> <input type="text"/> <input type="text"/>																															

PERSON 3		PERSON 4		PERSON 5	
Last name	Person No. from label	Last name	Person No. from label	Last name	Person No. from label
First name	Middle initial	First name	Middle initial	First name	Middle initial
1 <input type="checkbox"/> Still lives here — Ask 1e 2 <input type="checkbox"/> No longer lives here (Moved, dead, unknown, etc.) — Skip to next person		1 <input type="checkbox"/> Still lives here — Ask 1e 2 <input type="checkbox"/> No longer lives here (Moved, dead, unknown, etc.) — Skip to next person		1 <input type="checkbox"/> Still lives here — Ask 1e 2 <input type="checkbox"/> No longer lives here (Moved, dead, unknown, etc.) — Skip to next person	
1 <input type="checkbox"/> Yes } Go to 1d for next person listed. If all complete, skip to Check Item B. 2 <input type="checkbox"/> No }		1 <input type="checkbox"/> Yes } Go to 1d for next person listed. If all complete, skip to Check Item B. 2 <input type="checkbox"/> No }		1 <input type="checkbox"/> Yes } Go to 1d for next person listed. If all complete, skip to Check Item B. 2 <input type="checkbox"/> No }	
1 <input type="checkbox"/> Self response 2 <input type="checkbox"/> Proxy — Print proxy's person number → 3 <input type="text"/>		1 <input type="checkbox"/> Self response 2 <input type="checkbox"/> Proxy — Print proxy's person number → 3 <input type="text"/>		1 <input type="checkbox"/> Self response 2 <input type="checkbox"/> Proxy — Print proxy's person number → 3 <input type="text"/>	
1 <input type="checkbox"/> Male 2 <input type="checkbox"/> Female		1 <input type="checkbox"/> Male 2 <input type="checkbox"/> Female		1 <input type="checkbox"/> Male 2 <input type="checkbox"/> Female	
Age <input type="text"/>		Age <input type="text"/>		Age <input type="text"/>	
Print group(s) ↘ <input type="text"/> <input type="text"/> <input type="text"/>		Print group(s) ↘ <input type="text"/> <input type="text"/> <input type="text"/>		Print group(s) ↘ <input type="text"/> <input type="text"/> <input type="text"/>	
If response is a single ancestry or don't know, skip to 15. If a multiple response is given, continue with 14b.		If response is a single ancestry or don't know, skip to 15. If a multiple response is given, continue with 14b.		If response is a single ancestry or don't know, skip to 15. If a multiple response is given, continue with 14b.	
Print ONE group ↘ <input type="text"/> <input type="text"/>		Print ONE group ↘ <input type="text"/> <input type="text"/>		Print ONE group ↘ <input type="text"/> <input type="text"/>	
	Ancestor	Country		Ancestor	Country
<input type="text"/>	Your father		<input type="text"/>	Your father	
<input type="text"/>	Father's father		<input type="text"/>	Father's father	
<input type="text"/>	Father's mother		<input type="text"/>	Father's mother	
<input type="text"/>	Earlier generations on your father's side		<input type="text"/>	Earlier generations on your father's side	
<input type="text"/>	Your mother		<input type="text"/>	Your mother	
<input type="text"/>	Mother's father		<input type="text"/>	Mother's father	
<input type="text"/>	Mother's mother		<input type="text"/>	Mother's mother	
<input type="text"/>	Earlier generations on your mother's side		<input type="text"/>	Earlier generations on your mother's side	
1 <input type="checkbox"/> All responses to 15a and 15b indicate "USA," "U.S. State," or "Don't know" — Continue with 16 2 <input type="checkbox"/> Response of only one country other than "USA" in 15a and 15b — Skip to Check Item F 3 <input type="checkbox"/> Response of two or more countries other than "USA" in 15a and 15b — Skip to 17		1 <input type="checkbox"/> All responses to 15a and 15b indicate "USA," "U.S. State," or "Don't know" — Continue with 16 2 <input type="checkbox"/> Response of only one country other than "USA" in 15a and 15b — Skip to Check Item F 3 <input type="checkbox"/> Response of two or more countries other than "USA" in 15a and 15b — Skip to 17		1 <input type="checkbox"/> All responses to 15a and 15b indicate "USA," "U.S. State," or "Don't know" — Continue with 16 2 <input type="checkbox"/> Response of only one country other than "USA" in 15a and 15b — Skip to Check Item F 3 <input type="checkbox"/> Response of two or more countries other than "USA" in 15a and 15b — Skip to 17	
Print (country/countries) ↘ <input type="text"/> <input type="text"/>		Print (country/countries) ↘ <input type="text"/> <input type="text"/>		Print (country/countries) ↘ <input type="text"/> <input type="text"/>	
1 <input type="checkbox"/> Single, specific country, or don't know — Skip to Check Item F 2 <input type="checkbox"/> More than one country — Continue with 17		1 <input type="checkbox"/> Single, specific country, or don't know — Skip to Check Item F 2 <input type="checkbox"/> More than one country — Continue with 17		1 <input type="checkbox"/> Single, specific country, or don't know — Skip to Check Item F 2 <input type="checkbox"/> More than one country — Continue with 17	
Print country ↘ <input type="text"/> <input type="text"/>		Print country ↘ <input type="text"/> <input type="text"/>		Print country ↘ <input type="text"/> <input type="text"/>	

Section IV — HOUSEHOLD ROSTER	PERSON 1		PERSON 2	
	Last name	Person No. from label	Last name	Person No. from label
	First name	Middle initial	First name	Middle initial
<p><i>Transcribe the person names from the label in person number order to the columns at the right.</i></p> <p>1d. Does . . . still live here? If NONE of the persons live here, END INTERVIEW and complete Sections II and III.</p> <p>e. Is . . . under 15 years of age? If "Don't know," say — Please give me your best estimate.</p>	1 <input type="checkbox"/> Still lives here — Ask 1e 2 <input type="checkbox"/> No longer lives here (Moved, dead, unknown, etc.) — Skip to next person	1 <input type="checkbox"/> Still lives here — Ask 1e 2 <input type="checkbox"/> No longer lives here (Moved, dead, unknown, etc.) — Skip to next person		
<p>CHECK ITEM B</p> <p>Continue in the appropriate column for the current respondent. Mark (X) ONE box to indicate the status of the respondent.</p>	1 <input type="checkbox"/> Self response 2 <input type="checkbox"/> Proxy — Print proxy's person number → 3 <input type="text"/>	1 <input type="checkbox"/> Self response 2 <input type="checkbox"/> Proxy — Print proxy's person number → 3 <input type="text"/>		
<p>2. Is . . . male or female?</p>	1 <input type="checkbox"/> Male 2 <input type="checkbox"/> Female	1 <input type="checkbox"/> Male 2 <input type="checkbox"/> Female		
<p>3a. How old is . . . ? If "Don't know," say — Please give me your best estimate.</p>	Age <input type="text"/> <input type="text"/> <input type="text"/>	Age <input type="text"/> <input type="text"/> <input type="text"/>		
<p>CHECK ITEM F</p> <p>Refer to age (question 3a).</p>	1 <input type="checkbox"/> Less than 5 years of age — Skip to Check Item M, page 23 2 <input type="checkbox"/> 5 years of age and older — Continue with 18	1 <input type="checkbox"/> Less than 5 years of age — Skip to Check Item M, page 23 2 <input type="checkbox"/> 5 years of age and older — Continue with 18		
<p>18. Does . . . speak a language other than English at home?</p>	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to Check Item G	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to Check Item G		
<p>19. What is this language?</p>	<p>Print the language below. (For example: Chinese, Italian, Spanish, Vietnamese). If more than one, print the name of the non-English language spoken most frequently. ↴</p> <input type="text"/> <input type="text"/>	<p>Print the language below. (For example: Chinese, Italian, Spanish, Vietnamese). If more than one, print the name of the non-English language spoken most frequently. ↴</p> <input type="text"/> <input type="text"/>		
<p>20. How well does . . . speak English — very well, well, not well or not at all?</p>	1 <input type="checkbox"/> Very well 2 <input type="checkbox"/> Well 3 <input type="checkbox"/> Not well 4 <input type="checkbox"/> Not at all	1 <input type="checkbox"/> Very well 2 <input type="checkbox"/> Well 3 <input type="checkbox"/> Not well 4 <input type="checkbox"/> Not at all		
<p>21. Where did . . . first learn to speak (Read language in 19) — at home, in school, in the military or someplace else? Mark (X) ONE box.</p>	1 <input type="checkbox"/> At home 2 <input type="checkbox"/> In school 3 <input type="checkbox"/> In the military 4 <input type="checkbox"/> Someplace else	1 <input type="checkbox"/> At home 2 <input type="checkbox"/> In school 3 <input type="checkbox"/> In the military 4 <input type="checkbox"/> Someplace else		
<p>22. Where does . . . now speak (Read language in 19) ? Read each category and mark (X) EACH box for which the answer is "Yes."</p>	1 <input type="checkbox"/> At home? 2 <input type="checkbox"/> At work? 3 <input type="checkbox"/> At school? 4 <input type="checkbox"/> With relatives or friends, not at home? 5 <input type="checkbox"/> Other? 6 <input type="checkbox"/> Not spoken anywhere? — Skip to Check Item G	1 <input type="checkbox"/> At home? 2 <input type="checkbox"/> At work? 3 <input type="checkbox"/> At school? 4 <input type="checkbox"/> With relatives or friends, not at home? 5 <input type="checkbox"/> Other? 6 <input type="checkbox"/> Not spoken anywhere? — Skip to Check Item G		
<p>23. Compared with English, how often does . . . speak (Read language in 19) at home? Read each category and mark (X) ONE box.</p>	1 <input type="checkbox"/> All the time — does not speak English 2 <input type="checkbox"/> More often than English 3 <input type="checkbox"/> About the same as English 4 <input type="checkbox"/> Less often than English 5 <input type="checkbox"/> Almost never speak (Read language in 19)	1 <input type="checkbox"/> All the time — does not speak English 2 <input type="checkbox"/> More often than English 3 <input type="checkbox"/> About the same as English 4 <input type="checkbox"/> Less often than English 5 <input type="checkbox"/> Almost never speak (Read language in 19)		
<p>CHECK ITEM G</p> <p>Refer to age (question 3a).</p>	1 <input type="checkbox"/> If under 15 years old — Skip to Check Item M, page 23 2 <input type="checkbox"/> If 15 years or older — Continue with 24	1 <input type="checkbox"/> If under 15 years old — Skip to Check Item M, page 23 2 <input type="checkbox"/> If 15 years or older — Continue with 24		
<p>24. Was a language other than English spoken in . . . 's home when . . . was a child?</p>	1 <input type="checkbox"/> Yes — What was the language? Print language ↴ <input type="text"/> <input type="text"/> 2 <input type="checkbox"/> No	1 <input type="checkbox"/> Yes — What was the language? Print language ↴ <input type="text"/> <input type="text"/> 2 <input type="checkbox"/> No		

PERSON 3		PERSON 4		PERSON 5	
Last name	Person No. from label	Last name	Person No. from label	Last name	Person No. from label
First name	Middle initial	First name	Middle initial	First name	Middle initial
1 <input type="checkbox"/> Still lives here — Ask 1e 2 <input type="checkbox"/> No longer lives here (Moved, dead, unknown, etc.) — Skip to next person		1 <input type="checkbox"/> Still lives here — Ask 1e 2 <input type="checkbox"/> No longer lives here (Moved, dead, unknown, etc.) — Skip to next person		1 <input type="checkbox"/> Still lives here — Ask 1e 2 <input type="checkbox"/> No longer lives here (Moved, dead, unknown, etc.) — Skip to next person	
1 <input type="checkbox"/> Yes } Go to 1d for next person listed. If all complete, skip to Check Item B. 2 <input type="checkbox"/> No }		1 <input type="checkbox"/> Yes } Go to 1d for next person listed. If all complete, skip to Check Item B. 2 <input type="checkbox"/> No }		1 <input type="checkbox"/> Yes } Go to 1d for next person listed. If all complete, skip to Check Item B. 2 <input type="checkbox"/> No }	
1 <input type="checkbox"/> Self response 2 <input type="checkbox"/> Proxy — Print proxy's person number → 3 <input type="text"/>		1 <input type="checkbox"/> Self response 2 <input type="checkbox"/> Proxy — Print proxy's person number → 3 <input type="text"/>		1 <input type="checkbox"/> Self response 2 <input type="checkbox"/> Proxy — Print proxy's person number → 3 <input type="text"/>	
1 <input type="checkbox"/> Male 2 <input type="checkbox"/> Female		1 <input type="checkbox"/> Male 2 <input type="checkbox"/> Female		1 <input type="checkbox"/> Male 2 <input type="checkbox"/> Female	
Age <input type="text"/> <input type="text"/> <input type="text"/>		Age <input type="text"/> <input type="text"/> <input type="text"/>		Age <input type="text"/> <input type="text"/> <input type="text"/>	
1 <input type="checkbox"/> Less than 5 years of age — Skip to Check Item M, page 23 2 <input type="checkbox"/> 5 years of age and older — Continue with 18		1 <input type="checkbox"/> Less than 5 years of age — Skip to Check Item M, page 23 2 <input type="checkbox"/> 5 years of age and older — Continue with 18		1 <input type="checkbox"/> Less than 5 years of age — Skip to Check Item M, page 23 2 <input type="checkbox"/> 5 years of age and older — Continue with 18	
1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to Check Item G		1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to Check Item G		1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to Check Item G	
Print the language below. (For example: Chinese, Italian, Spanish, Vietnamese). If more than one, print the name of the non-English language spoken most frequently. ↴ <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>		Print the language below. (For example: Chinese, Italian, Spanish, Vietnamese). If more than one, print the name of the non-English language spoken most frequently. ↴ <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>		Print the language below. (For example: Chinese, Italian, Spanish, Vietnamese). If more than one, print the name of the non-English language spoken most frequently. ↴ <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	
1 <input type="checkbox"/> Very well 2 <input type="checkbox"/> Well 3 <input type="checkbox"/> Not well 4 <input type="checkbox"/> Not at all		1 <input type="checkbox"/> Very well 2 <input type="checkbox"/> Well 3 <input type="checkbox"/> Not well 4 <input type="checkbox"/> Not at all		1 <input type="checkbox"/> Very well 2 <input type="checkbox"/> Well 3 <input type="checkbox"/> Not well 4 <input type="checkbox"/> Not at all	
1 <input type="checkbox"/> At home 2 <input type="checkbox"/> In school 3 <input type="checkbox"/> In the military 4 <input type="checkbox"/> Someplace else		1 <input type="checkbox"/> At home 2 <input type="checkbox"/> In school 3 <input type="checkbox"/> In the military 4 <input type="checkbox"/> Someplace else		1 <input type="checkbox"/> At home 2 <input type="checkbox"/> In school 3 <input type="checkbox"/> In the military 4 <input type="checkbox"/> Someplace else	
1 <input type="checkbox"/> At home? 2 <input type="checkbox"/> At work? 3 <input type="checkbox"/> At school? 4 <input type="checkbox"/> With relatives or friends, not at home? 5 <input type="checkbox"/> Other? 6 <input type="checkbox"/> Not spoken anywhere? — Skip to Check Item G		1 <input type="checkbox"/> At home? 2 <input type="checkbox"/> At work? 3 <input type="checkbox"/> At school? 4 <input type="checkbox"/> With relatives or friends, not at home? 5 <input type="checkbox"/> Other? 6 <input type="checkbox"/> Not spoken anywhere? — Skip to Check Item G		1 <input type="checkbox"/> At home? 2 <input type="checkbox"/> At work? 3 <input type="checkbox"/> At school? 4 <input type="checkbox"/> With relatives or friends, not at home? 5 <input type="checkbox"/> Other? 6 <input type="checkbox"/> Not spoken anywhere? — Skip to Check Item G	
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1 <input type="checkbox"/> If under 15 years old — Skip to Check Item M, page 23 2 <input type="checkbox"/> If 15 years or older — Continue with 24		1 <input type="checkbox"/> If under 15 years old — Skip to Check Item M, page 23 2 <input type="checkbox"/> If 15 years or older — Continue with 24		1 <input type="checkbox"/> If under 15 years old — Skip to Check Item M, page 23 2 <input type="checkbox"/> If 15 years or older — Continue with 24	
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2 <input type="checkbox"/> No		2 <input type="checkbox"/> No		2 <input type="checkbox"/> No	

Section IV — HOUSEHOLD ROSTER <i>Transcribe the person names from the label in person number order to the columns at the right.</i>	PERSON 1			PERSON 2								
	Last name		Person No. from label	Last name		Person No. from label						
	First name		Middle initial	First name		Middle initial						
1d. Does . . . still live here? <i>If NONE of the persons live here, END INTERVIEW and complete Sections II and III.</i>	1 <input type="checkbox"/> Still lives here — Ask 1e 2 <input type="checkbox"/> No longer lives here (Moved, dead, unknown, etc.) — Skip to next person			1 <input type="checkbox"/> Still lives here — Ask 1e 2 <input type="checkbox"/> No longer lives here (Moved, dead, unknown, etc.) — Skip to next person								
e. Is . . . under 15 years of age? <i>If "Don't know," say — Please give me your best estimate.</i>	1 <input type="checkbox"/> Yes } Go to 1d for next person listed. If all complete, skip to Check Item B. 2 <input type="checkbox"/> No }			1 <input type="checkbox"/> Yes } Go to 1d for next person listed. If all complete, skip to Check Item B. 2 <input type="checkbox"/> No }								
CHECK ITEM B <i>Continue in the appropriate column for the current respondent. Mark (X) ONE box to indicate the status of the respondent.</i>	1 <input type="checkbox"/> Self response 2 <input type="checkbox"/> Proxy — Print proxy's person number → 3 <input type="text"/>			1 <input type="checkbox"/> Self response 2 <input type="checkbox"/> Proxy — Print proxy's person number → 3 <input type="text"/>								
2. Is . . . male or female?	1 <input type="checkbox"/> Male 2 <input type="checkbox"/> Female			1 <input type="checkbox"/> Male 2 <input type="checkbox"/> Female								
3a. How old is . . . ? <i>If "Don't know," say — Please give me your best estimate.</i>	Age <input type="text"/> <input type="text"/> <input type="text"/>			Age <input type="text"/> <input type="text"/> <input type="text"/>								
25a. Has . . . ever been on active-duty military service in the Armed Forces of the United States?	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to 25c			1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to 25c								
CHECK ITEM H <i>Refer to sex (question 2). Is . . . female?</i>	1 <input type="checkbox"/> Yes, female — Continue with 25b 2 <input type="checkbox"/> No — Skip to 25d			1 <input type="checkbox"/> Yes, female — Continue with 25b 2 <input type="checkbox"/> No — Skip to 25d								
25b. Did . . . 's military service consist entirely of service as a CIVILIAN employee or CIVILIAN volunteer for the Red Cross, USO, Public Health Service, War Department, Navy Department, or Defense Department?	1 <input type="checkbox"/> Yes — Skip to 27 2 <input type="checkbox"/> No — Skip to 25d			1 <input type="checkbox"/> Yes — Skip to 27 2 <input type="checkbox"/> No — Skip to 25d								
c. Has . . . ever been in the United States military Reserves or National Guard?	1 <input type="checkbox"/> Yes — Skip to 25e 2 <input type="checkbox"/> No — Skip to 27			1 <input type="checkbox"/> Yes — Skip to 25e 2 <input type="checkbox"/> No — Skip to 27								
d. Did . . . 's military service consist entirely of duty for the military Reserves or the National Guard, such as initial training, monthly meetings, and summer camp?	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to 26			1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to 26								
e. Was . . . ever called or ordered to active duty NOT COUNTING training?	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to 27			1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to 27								
26. Between what dates (month, day, year) was . . . on active-duty military service? If . . . had breaks in service, please specify the beginning and ending dates of each period of service.	FROM			TO			FROM			TO		
	Mo.	Day	Year	Mo.	Day	Year	Mo.	Day	Year	Mo.	Day	Year
			1 9			1 9			1 9			1 9
			1 9			1 9			1 9			1 9
			1 9			1 9			1 9			1 9
o <input type="checkbox"/> Still on active duty						o <input type="checkbox"/> Still on active duty						
27. The next few questions ask about health.												
a. Does . . . have any difficulty seeing words and letters in ordinary newspaper print even when wearing glasses or contact lenses if . . . usually wears them?	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to Check Item I						1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to Check Item I					
b. Is . . . able to do this at all?	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No						1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No					
c. Has . . . had difficulty seeing for 6 months or longer?	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No						1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No					

PERSON 3						PERSON 4						PERSON 5							
Last name			Person No. from label			Last name			Person No. from label			Last name			Person No. from label				
First name			Middle initial			First name			Middle initial			First name			Middle initial				
1 <input type="checkbox"/> Still lives here — Ask 1e 2 <input type="checkbox"/> No longer lives here (Moved, dead, unknown, etc.) — Skip to next person						1 <input type="checkbox"/> Still lives here — Ask 1e 2 <input type="checkbox"/> No longer lives here (Moved, dead, unknown, etc.) — Skip to next person						1 <input type="checkbox"/> Still lives here — Ask 1e 2 <input type="checkbox"/> No longer lives here (Moved, dead, unknown, etc.) — Skip to next person							
1 <input type="checkbox"/> Yes } Go to 1d for next person listed. If all complete, skip to Check Item B. 2 <input type="checkbox"/> No }						1 <input type="checkbox"/> Yes } Go to 1d for next person listed. If all complete, skip to Check Item B. 2 <input type="checkbox"/> No }						1 <input type="checkbox"/> Yes } Go to 1d for next person listed. If all complete, skip to Check Item B. 2 <input type="checkbox"/> No }							
1 <input type="checkbox"/> Self response 2 <input type="checkbox"/> Proxy — Print proxy's person number → 3 <input type="text"/>						1 <input type="checkbox"/> Self response 2 <input type="checkbox"/> Proxy — Print proxy's person number → 3 <input type="text"/>						1 <input type="checkbox"/> Self response 2 <input type="checkbox"/> Proxy — Print proxy's person number → 3 <input type="text"/>							
1 <input type="checkbox"/> Male 2 <input type="checkbox"/> Female						1 <input type="checkbox"/> Male 2 <input type="checkbox"/> Female						1 <input type="checkbox"/> Male 2 <input type="checkbox"/> Female							
Age <input type="text"/>						Age <input type="text"/>						Age <input type="text"/>							
1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to 25c						1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to 25c						1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to 25c							
1 <input type="checkbox"/> Yes, female — Continue with 25b 2 <input type="checkbox"/> No — Skip to 25d						1 <input type="checkbox"/> Yes, female — Continue with 25b 2 <input type="checkbox"/> No — Skip to 25d						1 <input type="checkbox"/> Yes, female — Continue with 25b 2 <input type="checkbox"/> No — Skip to 25d							
1 <input type="checkbox"/> Yes — Skip to 27 2 <input type="checkbox"/> No — Skip to 25d						1 <input type="checkbox"/> Yes — Skip to 27 2 <input type="checkbox"/> No — Skip to 25d						1 <input type="checkbox"/> Yes — Skip to 27 2 <input type="checkbox"/> No — Skip to 25d							
1 <input type="checkbox"/> Yes — Skip to 25e 2 <input type="checkbox"/> No — Skip to 27						1 <input type="checkbox"/> Yes — Skip to 25e 2 <input type="checkbox"/> No — Skip to 27						1 <input type="checkbox"/> Yes — Skip to 25e 2 <input type="checkbox"/> No — Skip to 27							
1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to 26						1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to 26						1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to 26							
1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to 27						1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to 27						1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to 27							
FROM		TO				FROM		TO				FROM		TO					
Mo.	Day	Year		Mo.	Day	Year		Mo.	Day	Year		Mo.	Day	Year		Mo.	Day	Year	
		1	9			1	9			1	9			1	9			1	9
		1	9			1	9			1	9			1	9			1	9
		1	9			1	9			1	9			1	9			1	9
o <input type="checkbox"/> Still on active duty						o <input type="checkbox"/> Still on active duty						o <input type="checkbox"/> Still on active duty							
1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to Check Item I						1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to Check Item I						1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to Check Item I							
1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No						1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No						1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No							
1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No						1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No						1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No							

Section IV — HOUSEHOLD ROSTER	PERSON 1		PERSON 2	
	Last name	Person No. from label	Last name	Person No. from label
	First name	Middle initial	First name	Middle initial
<p><i>Transcribe the person names from the label in person number order to the columns at the right.</i></p> <p>1d. Does . . . still live here? If NONE of the persons live here, END INTERVIEW and complete Sections II and III.</p> <p>e. Is . . . under 15 years of age? If "Don't know," say — Please give me your best estimate.</p>	1 <input type="checkbox"/> Still lives here — Ask 1e 2 <input type="checkbox"/> No longer lives here (Moved, dead, unknown, etc.) — Skip to next person	1 <input type="checkbox"/> Still lives here — Ask 1e 2 <input type="checkbox"/> No longer lives here (Moved, dead, unknown, etc.) — Skip to next person	1 <input type="checkbox"/> Still lives here — Ask 1e 2 <input type="checkbox"/> No longer lives here (Moved, dead, unknown, etc.) — Skip to next person	1 <input type="checkbox"/> Still lives here — Ask 1e 2 <input type="checkbox"/> No longer lives here (Moved, dead, unknown, etc.) — Skip to next person
CHECK ITEM B	1 <input type="checkbox"/> Self response 2 <input type="checkbox"/> Proxy — Print proxy's person number → 3 <input type="text"/>	1 <input type="checkbox"/> Self response 2 <input type="checkbox"/> Proxy — Print proxy's person number → 3 <input type="text"/>	1 <input type="checkbox"/> Self response 2 <input type="checkbox"/> Proxy — Print proxy's person number → 3 <input type="text"/>	1 <input type="checkbox"/> Self response 2 <input type="checkbox"/> Proxy — Print proxy's person number → 3 <input type="text"/>
2. Is . . . male or female?	1 <input type="checkbox"/> Male 2 <input type="checkbox"/> Female	1 <input type="checkbox"/> Male 2 <input type="checkbox"/> Female	1 <input type="checkbox"/> Male 2 <input type="checkbox"/> Female	1 <input type="checkbox"/> Male 2 <input type="checkbox"/> Female
3a. How old is . . . ? <i>If "Don't know," say — Please give me your best estimate.</i>	Age <input type="text"/> <input type="text"/> <input type="text"/>	Age <input type="text"/> <input type="text"/> <input type="text"/>	Age <input type="text"/> <input type="text"/> <input type="text"/>	Age <input type="text"/> <input type="text"/> <input type="text"/>
CHECK ITEM I	1 <input type="checkbox"/> Yes — Mark 28a, 28b, and 28c without asking 2 <input type="checkbox"/> No — Ask 28a	1 <input type="checkbox"/> Yes — Mark 28a, 28b, and 28c without asking 2 <input type="checkbox"/> No — Ask 28a	1 <input type="checkbox"/> Yes — Mark 28a, 28b, and 28c without asking 2 <input type="checkbox"/> No — Ask 28a	1 <input type="checkbox"/> Yes — Mark 28a, 28b, and 28c without asking 2 <input type="checkbox"/> No — Ask 28a
28a. Does . . . have any difficulty hearing what is said in normal conversation with another person (using a hearing aid if . . . usually wears one)?	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to 29a	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to 29a	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to 29a	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to 29a
b. Is . . . able to do this at all?	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No
c. Has . . . had difficulty hearing for 6 months or longer?	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No 3 <input type="checkbox"/> Self respondent	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No 3 <input type="checkbox"/> Self respondent	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No 3 <input type="checkbox"/> Self respondent	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No 3 <input type="checkbox"/> Self respondent
29a. Does . . . generally use an aid to help get around, such as crutches, a cane, or a wheelchair?	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to 30	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to 30	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to 30	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to 30
b. Has . . . used an aid for 6 months or longer?	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No
30. These next questions ask whether . . . 's health or physical condition affects . . . 's ability to do certain activities.	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to 31a	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to 31a	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to 31a	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to 31a
a. Does . . . have any difficulty walking a quarter of a mile — that is, about 3 city blocks?	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to 31a	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to 31a	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to 31a	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to 31a
b. Is . . . able to do this at all?	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No
c. Has . . . had difficulty walking for 6 months or longer?	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No
31a. Does . . . have any difficulty walking up a flight of stairs without resting?	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to 32a	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to 32a	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to 32a	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to 32a
b. Is . . . able to do this at all?	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No
c. Has . . . had difficulty using stairs for 6 months or longer?	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No

PERSON 3		PERSON 4		PERSON 5	
Last name	Person No. from label	Last name	Person No. from label	Last name	Person No. from label
First name	Middle initial	First name	Middle initial	First name	Middle initial
1 <input type="checkbox"/> Still lives here — Ask 1e 2 <input type="checkbox"/> No longer lives here (Moved, dead, unknown, etc.) — Skip to next person		1 <input type="checkbox"/> Still lives here — Ask 1e 2 <input type="checkbox"/> No longer lives here (Moved, dead, unknown, etc.) — Skip to next person		1 <input type="checkbox"/> Still lives here — Ask 1e 2 <input type="checkbox"/> No longer lives here (Moved, dead, unknown, etc.) — Skip to next person	
1 <input type="checkbox"/> Yes } Go to 1d for next person listed. If all complete, skip to Check Item B. 2 <input type="checkbox"/> No }		1 <input type="checkbox"/> Yes } Go to 1d for next person listed. If all complete, skip to Check Item B. 2 <input type="checkbox"/> No }		1 <input type="checkbox"/> Yes } Go to 1d for next person listed. If all complete, skip to Check Item B. 2 <input type="checkbox"/> No }	
1 <input type="checkbox"/> Self response 2 <input type="checkbox"/> Proxy — Print proxy's person number → 3 <input type="text"/>		1 <input type="checkbox"/> Self response 2 <input type="checkbox"/> Proxy — Print proxy's person number → 3 <input type="text"/>		1 <input type="checkbox"/> Self response 2 <input type="checkbox"/> Proxy — Print proxy's person number → 3 <input type="text"/>	
1 <input type="checkbox"/> Male 2 <input type="checkbox"/> Female		1 <input type="checkbox"/> Male 2 <input type="checkbox"/> Female		1 <input type="checkbox"/> Male 2 <input type="checkbox"/> Female	
Age <input type="text"/>		Age <input type="text"/>		Age <input type="text"/>	
1 <input type="checkbox"/> Yes — Mark 28a, 28b, and 28c without asking 2 <input type="checkbox"/> No — Ask 28a		1 <input type="checkbox"/> Yes — Mark 28a, 28b, and 28c without asking 2 <input type="checkbox"/> No — Ask 28a		1 <input type="checkbox"/> Yes — Mark 28a, 28b, and 28c without asking 2 <input type="checkbox"/> No — Ask 28a	
1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to 29a		1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to 29a		1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to 29a	
1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No		1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No		1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	
1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No 3 <input type="checkbox"/> Self respondent		1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No 3 <input type="checkbox"/> Self respondent		1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No 3 <input type="checkbox"/> Self respondent	
1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to 30		1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to 30		1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to 30	
1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No		1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No		1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	
1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to 31a		1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to 31a		1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to 31a	
1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No		1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No		1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	
1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No		1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No		1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	
1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to 32a		1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to 32a		1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to 32a	
1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No		1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No		1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	
1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No		1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No		1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	

Section IV — HOUSEHOLD ROSTER <i>Transcribe the person names from the label in person number order to the columns at the right.</i>	PERSON 1		PERSON 2	
	Last name	Person No. from label	Last name	Person No. from label
	First name	Middle initial	First name	Middle initial
1d. Does . . . still live here? <i>If NONE of the persons live here, END INTERVIEW and complete Sections II and III.</i>	1 <input type="checkbox"/> Still lives here — Ask 1e 2 <input type="checkbox"/> No longer lives here (Moved, dead, unknown, etc.) — Skip to next person		1 <input type="checkbox"/> Still lives here — Ask 1e 2 <input type="checkbox"/> No longer lives here (Moved, dead, unknown, etc.) — Skip to next person	
e. Is . . . under 15 years of age? <i>If "Don't know," say — Please give me your best estimate.</i>	1 <input type="checkbox"/> Yes } Go to 1d for next person listed. If all complete, skip to Check Item B. 2 <input type="checkbox"/> No }		1 <input type="checkbox"/> Yes } Go to 1d for next person listed. If all complete, skip to Check Item B. 2 <input type="checkbox"/> No }	
CHECK ITEM B <i>Continue in the appropriate column for the current respondent. Mark (X) ONE box to indicate the status of the respondent.</i>	1 <input type="checkbox"/> Self response 2 <input type="checkbox"/> Proxy — Print proxy's person number → 3 <input type="text"/>		1 <input type="checkbox"/> Self response 2 <input type="checkbox"/> Proxy — Print proxy's person number → 3 <input type="text"/>	
2. Is . . . male or female?	1 <input type="checkbox"/> Male 2 <input type="checkbox"/> Female		1 <input type="checkbox"/> Male 2 <input type="checkbox"/> Female	
3a. How old is . . . ? <i>If "Don't know," say — Please give me your best estimate.</i>	Age <input type="text"/>		Age <input type="text"/>	
32a. Does . . . have any difficulty lifting and carrying something as heavy as 10 lbs., such as a full bag of groceries?	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to Check Item J		1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to Check Item J	
b. Is . . . able to do this at all?	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No		1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	
c. Has . . . had difficulty lifting or carrying for 6 months or longer?	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No		1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	
CHECK ITEM J <i>Refer to age (question 3a).</i>	1 <input type="checkbox"/> If 15–65 years — Continue with 33a 2 <input type="checkbox"/> If 66 years or older — Skip to 34		1 <input type="checkbox"/> If 15–65 years — Continue with 33a 2 <input type="checkbox"/> If 66 years or older — Skip to 34	
33a. Does . . . have a physical, mental, or other health condition that has lasted for 6 or more months and which limits the kind or amount of work . . . can do at a job?	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to 34		1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to 34	
b. Does this condition prevent . . . from working at a job?	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No		1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	
34. Because of a health condition that has lasted for 6 or more months, does . . . have any difficulty —				
a. going outside the home alone, for example, to shop or visit a doctor's office?	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No		1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	
b. taking care of his or her own personal needs, such as bathing, dressing, or getting around inside the home?	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No		1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	

PERSON 3		PERSON 4		PERSON 5	
Last name	Person No. from label	Last name	Person No. from label	Last name	Person No. from label
First name	Middle initial	First name	Middle initial	First name	Middle initial
1 <input type="checkbox"/> Still lives here — Ask 1e 2 <input type="checkbox"/> No longer lives here (Moved, dead, unknown, etc.) — Skip to next person		1 <input type="checkbox"/> Still lives here — Ask 1e 2 <input type="checkbox"/> No longer lives here (Moved, dead, unknown, etc.) — Skip to next person		1 <input type="checkbox"/> Still lives here — Ask 1e 2 <input type="checkbox"/> No longer lives here (Moved, dead, unknown, etc.) — Skip to next person	
1 <input type="checkbox"/> Yes } Go to 1d for next person listed. If all complete, skip to Check Item B. 2 <input type="checkbox"/> No }		1 <input type="checkbox"/> Yes } Go to 1d for next person listed. If all complete, skip to Check Item B. 2 <input type="checkbox"/> No }		1 <input type="checkbox"/> Yes } Go to 1d for next person listed. If all complete, skip to Check Item B. 2 <input type="checkbox"/> No }	
1 <input type="checkbox"/> Self response 2 <input type="checkbox"/> Proxy — Print proxy's person number → 3 <input type="text"/>		1 <input type="checkbox"/> Self response 2 <input type="checkbox"/> Proxy — Print proxy's person number → 3 <input type="text"/>		1 <input type="checkbox"/> Self response 2 <input type="checkbox"/> Proxy — Print proxy's person number → 3 <input type="text"/>	
1 <input type="checkbox"/> Male 2 <input type="checkbox"/> Female		1 <input type="checkbox"/> Male 2 <input type="checkbox"/> Female		1 <input type="checkbox"/> Male 2 <input type="checkbox"/> Female	
Age <input type="text"/> <input type="text"/> <input type="text"/>		Age <input type="text"/> <input type="text"/> <input type="text"/>		Age <input type="text"/> <input type="text"/> <input type="text"/>	
1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to Check Item J		1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to Check Item J		1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to Check Item J	
1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No		1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No		1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	
1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No		1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No		1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	
1 <input type="checkbox"/> If 15–65 years — Continue with 33a 2 <input type="checkbox"/> If 66 years or older — Skip to 34		1 <input type="checkbox"/> If 15–65 years — Continue with 33a 2 <input type="checkbox"/> If 66 years or older — Skip to 34		1 <input type="checkbox"/> If 15–65 years — Continue with 33a 2 <input type="checkbox"/> If 66 years or older — Skip to 34	
1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to 34		1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to 34		1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to 34	
1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No		1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No		1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	
1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No		1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No		1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	
1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No		1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No		1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	

Section IV — HOUSEHOLD ROSTER	PERSON 1		PERSON 2	
	Last name	Person No. from label	Last name	Person No. from label
	First name	Middle initial	First name	Middle initial
<p><i>Transcribe the person names from the label in person number order to the columns at the right.</i></p> <p>1d. Does . . . still live here? If NONE of the persons live here, END INTERVIEW and complete Sections II and III.</p> <p>e. Is . . . under 15 years of age? If "Don't know," say — Please give me your best estimate.</p>	<p>1 <input type="checkbox"/> Still lives here — Ask 1e</p> <p>2 <input type="checkbox"/> No longer lives here (Moved, dead, unknown, etc.) — Skip to next person</p>	<p>1 <input type="checkbox"/> Still lives here — Ask 1e</p> <p>2 <input type="checkbox"/> No longer lives here (Moved, dead, unknown, etc.) — Skip to next person</p>	<p>1 <input type="checkbox"/> Yes } Go to 1d for next person listed. If all complete, skip to Check Item B.</p> <p>2 <input type="checkbox"/> No }</p>	<p>1 <input type="checkbox"/> Yes } Go to 1d for next person listed. If all complete, skip to Check Item B.</p> <p>2 <input type="checkbox"/> No }</p>
CHECK ITEM B	<p>1 <input type="checkbox"/> Self response</p> <p>2 <input type="checkbox"/> Proxy — Print proxy's person number → 3 <input type="text"/></p>	<p>1 <input type="checkbox"/> Self response</p> <p>2 <input type="checkbox"/> Proxy — Print proxy's person number → 3 <input type="text"/></p>		
2. Is . . . male or female?	<p>1 <input type="checkbox"/> Male 2 <input type="checkbox"/> Female</p>	<p>1 <input type="checkbox"/> Male 2 <input type="checkbox"/> Female</p>		
3a. How old is . . . ? <i>If "Don't know," say — Please give me your best estimate.</i>	<p>Age <input type="text"/></p>	<p>Age <input type="text"/></p>		
35. For these next few questions, please describe . . . 's chief job activity or business during the week of (reference date). If . . . had more than one job, describe the one at which . . . worked the most hours. If . . . had no job or business during the week of (reference date), give information for the most recent job or business since January 1, 1989. <i>If . . . had neither a job nor a business since 1989, then skip to 36.</i>				
a. For whom did . . . work?	<p>Print name of employer ↘</p> <input type="text"/>	<p>Print name of employer ↘</p> <input type="text"/>		
b. What kind of business or industry was this?	<p>Describe the activity at the location where . . . was employed. For example: hospital, newspaper publishing, mail order house, auto engine manufacturing, retail bakery ↘</p> <input type="text"/>	<p>Describe the activity at the location where . . . was employed. For example: hospital, newspaper publishing, mail order house, auto engine manufacturing, retail bakery ↘</p> <input type="text"/>		
c. Is this mainly — <i>Read each category and mark (X) ONE box.</i>	<p>1 <input type="checkbox"/> Manufacturing?</p> <p>2 <input type="checkbox"/> Wholesale trade?</p> <p>3 <input type="checkbox"/> Retail trade?</p> <p>4 <input type="checkbox"/> Other (agriculture, construction, service, government, etc.)?</p>	<p>1 <input type="checkbox"/> Manufacturing?</p> <p>2 <input type="checkbox"/> Wholesale trade?</p> <p>3 <input type="checkbox"/> Retail trade?</p> <p>4 <input type="checkbox"/> Other (agriculture, construction, service, government, etc.)?</p>		
d. Was . . . <i>Read each category and mark (X) ONE box.</i>	<p>1 <input type="checkbox"/> An employee of a PRIVATE FOR PROFIT company or business or of an individual, for wages, salary or commissions?</p> <p>2 <input type="checkbox"/> An employee of a PRIVATE NOT-FOR-PROFIT, tax-exempt, or charitable organization?</p> <p>3 <input type="checkbox"/> A local GOVERNMENT employee (city, county, etc.)?</p> <p>4 <input type="checkbox"/> A state GOVERNMENT employee?</p> <p>5 <input type="checkbox"/> An active-duty Armed Forces member?</p> <p>6 <input type="checkbox"/> A Federal GOVERNMENT employee (excluding active-duty Armed Forces)?</p> <p>7 <input type="checkbox"/> SELF-EMPLOYED in own NOT INCORPORATED business, professional practice, or farm?</p> <p>8 <input type="checkbox"/> SELF-EMPLOYED in own INCORPORATED business, professional practice, or farm?</p> <p>9 <input type="checkbox"/> Working WITHOUT PAY in family business or farm?</p>	<p>1 <input type="checkbox"/> An employee of a PRIVATE FOR PROFIT company or business or of an individual, for wages, salary or commissions?</p> <p>2 <input type="checkbox"/> An employee of a PRIVATE NOT-FOR-PROFIT, tax-exempt, or charitable organization?</p> <p>3 <input type="checkbox"/> A local GOVERNMENT employee (city, county, etc.)?</p> <p>4 <input type="checkbox"/> A state GOVERNMENT employee?</p> <p>5 <input type="checkbox"/> An active-duty Armed Forces member?</p> <p>6 <input type="checkbox"/> A Federal GOVERNMENT employee (excluding active-duty Armed Forces)?</p> <p>7 <input type="checkbox"/> SELF-EMPLOYED in own NOT INCORPORATED business, professional practice, or farm?</p> <p>8 <input type="checkbox"/> SELF-EMPLOYED in own INCORPORATED business, professional practice, or farm?</p> <p>9 <input type="checkbox"/> Working WITHOUT PAY in family business or farm?</p>		
36. Did . . . work at a job or in a business or on a farm, at any time during 1989?	<p>1 <input type="checkbox"/> Yes — Skip to 38a</p> <p>2 <input type="checkbox"/> No</p>	<p>1 <input type="checkbox"/> Yes — Skip to 38a</p> <p>2 <input type="checkbox"/> No</p>		
37. Did . . . do any temporary, part-time, or seasonal work even for a few days during 1989?	<p>1 <input type="checkbox"/> Yes</p> <p>2 <input type="checkbox"/> No — Skip to Check Item K</p>	<p>1 <input type="checkbox"/> Yes</p> <p>2 <input type="checkbox"/> No — Skip to Check Item K</p>		
38a. During 1989, in how many weeks did . . . work even for a few hours? Include paid vacation, paid sick leave, and military service as work.	<input type="text"/> Weeks	<input type="text"/> Weeks		
b. In the weeks that . . . worked, how many hours did . . . usually work per week?	<input type="text"/> Hours	<input type="text"/> Hours		

PERSON 3		PERSON 4		PERSON 5	
Last name	Person No. from label	Last name	Person No. from label	Last name	Person No. from label
First name	Middle initial	First name	Middle initial	First name	Middle initial
1 <input type="checkbox"/> Still lives here — Ask 1e 2 <input type="checkbox"/> No longer lives here (Moved, dead, unknown, etc.) — Skip to next person		1 <input type="checkbox"/> Still lives here — Ask 1e 2 <input type="checkbox"/> No longer lives here (Moved, dead, unknown, etc.) — Skip to next person		1 <input type="checkbox"/> Still lives here — Ask 1e 2 <input type="checkbox"/> No longer lives here (Moved, dead, unknown, etc.) — Skip to next person	
1 <input type="checkbox"/> Yes } Go to 1d for next person listed. If all complete, skip to Check Item B. 2 <input type="checkbox"/> No }		1 <input type="checkbox"/> Yes } Go to 1d for next person listed. If all complete, skip to Check Item B. 2 <input type="checkbox"/> No }		1 <input type="checkbox"/> Yes } Go to 1d for next person listed. If all complete, skip to Check Item B. 2 <input type="checkbox"/> No }	
1 <input type="checkbox"/> Self response 2 <input type="checkbox"/> Proxy — Print proxy's person number → 3 <input type="text"/>		1 <input type="checkbox"/> Self response 2 <input type="checkbox"/> Proxy — Print proxy's person number → 3 <input type="text"/>		1 <input type="checkbox"/> Self response 2 <input type="checkbox"/> Proxy — Print proxy's person number → 3 <input type="text"/>	
1 <input type="checkbox"/> Male 2 <input type="checkbox"/> Female		1 <input type="checkbox"/> Male 2 <input type="checkbox"/> Female		1 <input type="checkbox"/> Male 2 <input type="checkbox"/> Female	
Age <input type="text"/> <input type="text"/> <input type="text"/>		Age <input type="text"/> <input type="text"/> <input type="text"/>		Age <input type="text"/> <input type="text"/> <input type="text"/>	
Print name of employer ↘ <input type="text"/>		Print name of employer ↘ <input type="text"/>		Print name of employer ↘ <input type="text"/>	
Describe the activity at the location where . . . was employed. For example: hospital, newspaper publishing, mail order house, auto engine manufacturing, retail bakery ↘ <input type="text"/>		Describe the activity at the location where . . . was employed. For example: hospital, newspaper publishing, mail order house, auto engine manufacturing, retail bakery ↘ <input type="text"/>		Describe the activity at the location where . . . was employed. For example: hospital, newspaper publishing, mail order house, auto engine manufacturing, retail bakery ↘ <input type="text"/>	
1 <input type="checkbox"/> Manufacturing? 2 <input type="checkbox"/> Wholesale trade? 3 <input type="checkbox"/> Retail trade? 4 <input type="checkbox"/> Other (agriculture, construction, service, government, etc.)?		1 <input type="checkbox"/> Manufacturing? 2 <input type="checkbox"/> Wholesale trade? 3 <input type="checkbox"/> Retail trade? 4 <input type="checkbox"/> Other (agriculture, construction, service, government, etc.)?		1 <input type="checkbox"/> Manufacturing? 2 <input type="checkbox"/> Wholesale trade? 3 <input type="checkbox"/> Retail trade? 4 <input type="checkbox"/> Other (agriculture, construction, service, government, etc.)?	
1 <input type="checkbox"/> An employee of a PRIVATE FOR PROFIT company or business or of an individual, for wages, salary or commissions? 2 <input type="checkbox"/> An employee of a PRIVATE NOT-FOR-PROFIT, tax-exempt, or charitable organization? 3 <input type="checkbox"/> A local GOVERNMENT employee (city, county, etc.)? 4 <input type="checkbox"/> A state GOVERNMENT employee? 5 <input type="checkbox"/> An active-duty Armed Forces member? 6 <input type="checkbox"/> A Federal GOVERNMENT employee (excluding active-duty Armed Forces)? 7 <input type="checkbox"/> SELF-EMPLOYED in own NOT INCORPORATED business, professional practice, or farm? 8 <input type="checkbox"/> SELF-EMPLOYED in own INCORPORATED business, professional practice, or farm? 9 <input type="checkbox"/> Working WITHOUT PAY in family business or farm?		1 <input type="checkbox"/> An employee of a PRIVATE FOR PROFIT company or business or of an individual, for wages, salary or commissions? 2 <input type="checkbox"/> An employee of a PRIVATE NOT-FOR-PROFIT, tax-exempt, or charitable organization? 3 <input type="checkbox"/> A local GOVERNMENT employee (city, county, etc.)? 4 <input type="checkbox"/> A state GOVERNMENT employee? 5 <input type="checkbox"/> An active-duty Armed Forces member? 6 <input type="checkbox"/> A Federal GOVERNMENT employee (excluding active-duty Armed Forces)? 7 <input type="checkbox"/> SELF-EMPLOYED in own NOT INCORPORATED business, professional practice, or farm? 8 <input type="checkbox"/> SELF-EMPLOYED in own INCORPORATED business, professional practice, or farm? 9 <input type="checkbox"/> Working WITHOUT PAY in family business or farm?		1 <input type="checkbox"/> An employee of a PRIVATE FOR PROFIT company or business or of an individual, for wages, salary or commissions? 2 <input type="checkbox"/> An employee of a PRIVATE NOT-FOR-PROFIT, tax-exempt, or charitable organization? 3 <input type="checkbox"/> A local GOVERNMENT employee (city, county, etc.)? 4 <input type="checkbox"/> A state GOVERNMENT employee? 5 <input type="checkbox"/> An active-duty Armed Forces member? 6 <input type="checkbox"/> A Federal GOVERNMENT employee (excluding active-duty Armed Forces)? 7 <input type="checkbox"/> SELF-EMPLOYED in own NOT INCORPORATED business, professional practice, or farm? 8 <input type="checkbox"/> SELF-EMPLOYED in own INCORPORATED business, professional practice, or farm? 9 <input type="checkbox"/> Working WITHOUT PAY in family business or farm?	
1 <input type="checkbox"/> Yes — Skip to 38a 2 <input type="checkbox"/> No		1 <input type="checkbox"/> Yes — Skip to 38a 2 <input type="checkbox"/> No		1 <input type="checkbox"/> Yes — Skip to 38a 2 <input type="checkbox"/> No	
1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to Check Item K		1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to Check Item K		1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to Check Item K	
<input type="text"/> Weeks		<input type="text"/> Weeks		<input type="text"/> Weeks	
<input type="text"/> Hours		<input type="text"/> Hours		<input type="text"/> Hours	

CHECK ITEM K

Have questions H1—H10 been answered?

If "Yes," skip to Check Item M

If "No," print respondent's person number → 1 and continue with H1.

The next few questions are about . . . 's living quarters.

H1. Are your living quarters in:

Read each category.

- 1 **A mobile home or trailer**
- 2 **A one-family house detached from any other house**
- 3 **A one-family house attached to one or more houses**
- 4 **A building with 2 or more apartments** — If the structure is an apartment building, ask — **How many apartments are in this building?**
 - 5 2 apartments
 - 6 3 or 4 apartments
 - 7 5 to 9 apartments
 - 8 10 to 19 apartments
 - 9 20 to 49 apartments
 - 10 50 or more apartments

11 **Other type of living quarters** — Print description ↴

H2a. Is this (house/apartment) —

Read each category and mark (X) ONE box.

- 1 **Owned or being bought by you?** — Skip to H2b
- 2 **Owned or being bought by someone else living in this household?** — Skip to H2b
- 3 **Rented for cash rent?** — Skip to H3a
- 4 **Occupied without payment of cash rent?** — If "Yes," ask — **Do you occupy this (house/apartment) without payment of cash rent because it is provided —**

Read each category and mark (X) ONE box.

- 5 **As military living quarters?**
- 6 **As partial payment for services rendered such as watchman, janitor, tenant farmer, etc.?**
- 7 **By a friend or relative?**
- 8 **Free of charge for some other reason?** Print reason ↴

H2b. While some homes are owned free and clear, many are owned with a mortgage or a similar type of loan.

Is this home owned free and clear?

- 1 Yes, owned free and clear — Skip to H6a
- 2 No — Ask — **Is it owned with any of the following?**

Read each category and mark (X) each box for which the answer is "Yes."

- 3 **A mortgage?**
- 4 **A contract to purchase?**
- 5 **A deed of trust or trust deed?**
- 6 **A home equity line of credit?**
- 7 **Some other loan secured by the house or apartment?**

} Skip to H6a

H3a. What is the monthly contract rent?

\$.00

Monthly amount — Dollars

b. Does the Federal, State, or local government pay part of the rent?

- 1 Yes — Ask — **Is this payment made to the householder or to the owner?**
 - 2 Householder
 - 3 Owner
- 4 No
- 5 Don't know

} Skip to H3e

c. Did you include this amount in the monthly rent you just reported?

- 1 Yes — Skip to H3e
- 2 No

d. What is the amount of monthly rent paid by the government?

\$.00

Monthly amount — Dollars

- 0 Don't know

e. Does someone living outside this (house/apartment) other than the government pay part of the rent?

- 1 Yes — Ask — **Is this payment made to the householder or to the owner?**
 - 2 Householder
 - 3 Owner
- 4 No
- 5 Don't know

} Skip to H4a

f. Did you include this amount in the monthly rent you just reported?

- 1 Yes — Skip to H4a
- 2 No

g. What is the amount of monthly rent paid by someone living outside this (house/apartment)?

\$.00

Monthly amount — Dollars

- 0 Don't know

H4a. Does the monthly rent include any meals?

21 Yes — Ask — **How many meals per day?**

22 1

23 2

24 3 or more

25 No

b. Does the monthly rent include the availability of a professional medical person (doctor, nurse, physical therapist, etc.) on the premises?

1 Yes

2 No

c. Does the monthly rent include convalescent facilities on the premises?

1 Yes

2 No

d. Does the monthly rent include transportation for shopping or recreational needs?

1 Yes

2 No

CHECK ITEM L

Refer to questions H4a—d.

1 Responses to questions H4a—d were all "No" — Skip to H6a

2 At least one response to H4a—d was "Yes" — Continue with H5

H5. Would you classify this facility as —
Read each category and mark (X) ONE box.

1 Continuing care facility?

2 Retirement center run by local or State government?

3 Retirement center run by a nonprofit organization?

4 Something else? — Print classification ↗

H6a. Is there hot and cold piped water in this (house/apartment)?

1 Yes, hot and cold piped water

2 Only cold piped water

3 No piped water

b. Is there a flush toilet in this (house/apartment)?

1 Yes

2 No

c. Is there a bathtub or shower in this (house/apartment)?

1 Yes

2 No

H7. About when was this building first built?

1 1989 or 1990

2 1985 to 1988

3 1980 to 1984

4 1970 to 1979

5 1960 to 1969

6 1950 to 1959

7 1940 to 1949

8 1939 or earlier

H8. The next few questions refer to vehicles used by members of your household.

a. On April 1, how many automobiles were kept at home for use by members of your household? Exclude vans and trucks.

0 None

1 1

2 2

3 3

4 4 or more

b. On April 1, how many vans or trucks of one ton capacity or less were kept at home for use by members of your household?

0 None

1 1

2 2

3 3

4 4 or more

H9. If this structure is an apartment building, skip to Check Item M. Otherwise, read the statement and question below.

Now I would like to ask you about the land on which your home is located.

Is this house on less than 1 acre?

1 Yes — Skip to Check Item M

2 No

H10. In 1989, what were the actual sales of all agricultural products from this property?

0 None

1 \$1 to \$999

2 \$1,000 to \$2,499

3 \$2,500 to \$4,999

4 \$5,000 to \$9,999

5 \$10,000 or more

CHECK ITEM M

Has an interview been conducted for each person listed in Section IV, who still lives here (refer to 1d)?

1 Yes — END INTERVIEW and complete Section III on front cover.

2 No — Ask by name for the next person listed in Section IV who still lives here. Start with Check Item B in the column corresponding to the name of the respondent. For each person under 15 years old, use a parent or guardian as the proxy respondent (or the current respondent, if appropriate).

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.

On the inside	Page
How to fill out your census form	2
Example	2
Your answers are confidential	2
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



D4

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="radio"/> 0 <input type="radio"/> 0 <input type="radio"/> 0 <input type="radio"/> 0	<input type="radio"/> 1 <input type="radio"/> 8 <input type="radio"/> 0 <input type="radio"/> 0 <input type="radio"/> 0 <input type="radio"/> 0	<input type="radio"/> 0 <input type="radio"/> 0 <input type="radio"/> 0 <input type="radio"/> 0	<input type="radio"/> 1 <input type="radio"/> 8 <input type="radio"/> 0 <input type="radio"/> 0 <input type="radio"/> 0 <input type="radio"/> 0
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<input type="radio"/> 2 <input type="radio"/> 0 <input type="radio"/> 2 <input type="radio"/> 0	<input type="radio"/> 2 <input type="radio"/> 0 <input type="radio"/> 2 <input type="radio"/> 0	<input type="radio"/> 2 <input type="radio"/> 0 <input type="radio"/> 2 <input type="radio"/> 0	<input type="radio"/> 2 <input type="radio"/> 0 <input type="radio"/> 2 <input type="radio"/> 0
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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																																																																																																																																																																																																																
<p>2. How is this person related to PERSON 1?</p> <p>Fill ONE circle for each person.</p> <p>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.</p>	<p>START in this column with the household member (or one of the members) in whose name the home is owned, being bought, or rented.</p> <p>If there is no such person, start in this column with any adult household member.</p>		<p>If a RELATIVE of Person 1:</p> <p><input type="radio"/> Husband/wife <input type="radio"/> Brother/sister</p> <p><input type="radio"/> Natural-born or adopted son/daughter <input type="radio"/> Father/mother</p> <p><input type="radio"/> Stepson/stepdaughter <input type="radio"/> Grandchild</p> <p><input type="radio"/> Other relative →</p> <hr/> <p>If NOT RELATED to Person 1:</p> <p><input type="radio"/> Roomer, boarder, or foster child <input type="radio"/> Unmarried partner</p> <p><input type="radio"/> Housemate, roommate ■ <input type="radio"/> Other nonrelative</p>																																																																																																																																																																																																																	
<p>3. Sex</p> <p>Fill ONE circle for each person.</p>	<p><input type="radio"/> Male <input type="radio"/> Female</p>		<p><input type="radio"/> Male <input type="radio"/> Female</p>																																																																																																																																																																																																																	
<p>4. Race</p> <p>Fill ONE circle for the race that the person considers himself/herself to be.</p> <p>If Indian (Amer.), print the name of the enrolled or principal tribe. →</p> <p>If Other Asian or Pacific Islander (API), print one group, for example: Hmong, Fijian, Laotian, Thai, Tongan, Pakistani, Cambodian, and so on. →</p> <p>If Other race, print race. →</p>	<p><input type="radio"/> White</p> <p><input type="radio"/> Black or Negro</p> <p><input type="radio"/> Indian (Amer.) (Print the name of the enrolled or principal tribe.) →</p> <p><input type="radio"/> Eskimo</p> <p><input type="radio"/> Aleut</p> <p><input type="radio"/> Asian or Pacific Islander (API)</p> <p><input type="radio"/> Chinese <input type="radio"/> Japanese</p> <p><input type="radio"/> Filipino ■ <input type="radio"/> Asian Indian</p> <p><input type="radio"/> Hawaiian <input type="radio"/> Samoan</p> <p><input type="radio"/> Korean <input type="radio"/> Guamanian</p> <p><input type="radio"/> Vietnamese <input type="radio"/> Other API →</p> <p><input type="radio"/> Other race (Print race) →</p>		<p><input type="radio"/> White</p> <p><input type="radio"/> Black or Negro</p> <p><input type="radio"/> Indian (Amer.) (Print the name of the enrolled or principal tribe.) →</p> <p><input type="radio"/> Eskimo</p> <p><input type="radio"/> Aleut</p> <p><input type="radio"/> Asian or Pacific Islander (API)</p> <p><input type="radio"/> Chinese <input type="radio"/> Japanese</p> <p><input type="radio"/> Filipino ■ <input type="radio"/> Asian Indian</p> <p><input type="radio"/> Hawaiian <input type="radio"/> Samoan</p> <p><input type="radio"/> Korean <input type="radio"/> Guamanian</p> <p><input type="radio"/> Vietnamese <input type="radio"/> Other API →</p> <p><input type="radio"/> Other race (Print race) →</p>																																																																																																																																																																																																																	
<p>5. Age and year of birth</p> <p>a. Print each person's age at last birthday. Fill in the matching circle below each box.</p> <p>b. Print each person's year of birth and fill the matching circle below each box.</p>	<p>a. Age</p> <table border="1"> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td>0</td><td>0</td><td>0</td><td>0</td></tr> <tr><td>1</td><td>1</td><td>1</td><td>1</td></tr> <tr><td>2</td><td>2</td><td>2</td><td>2</td></tr> <tr><td>3</td><td>3</td><td>3</td><td>3</td></tr> <tr><td>4</td><td>4</td><td>4</td><td>4</td></tr> <tr><td>5</td><td>5</td><td>5</td><td>5</td></tr> <tr><td>6</td><td>6</td><td>6</td><td>6</td></tr> <tr><td>7</td><td>7</td><td>7</td><td>7</td></tr> <tr><td>8</td><td>8</td><td>8</td><td>8</td></tr> <tr><td>9</td><td>9</td><td>9</td><td>9</td></tr> </table> <p>b. Year of birth</p> <table border="1"> <tr><td>1</td><td>8</td><td>0</td><td>0</td><td>0</td><td>0</td></tr> <tr><td>9</td><td>1</td><td>0</td><td>1</td><td>0</td><td>0</td></tr> <tr><td>2</td><td>2</td><td>0</td><td>2</td><td>0</td><td>0</td></tr> <tr><td>3</td><td>3</td><td>0</td><td>3</td><td>0</td><td>0</td></tr> <tr><td>4</td><td>4</td><td>4</td><td>0</td><td>4</td><td>0</td></tr> <tr><td>5</td><td>5</td><td>5</td><td>5</td><td>0</td><td>0</td></tr> <tr><td>6</td><td>6</td><td>6</td><td>6</td><td>0</td><td>0</td></tr> <tr><td>7</td><td>7</td><td>7</td><td>7</td><td>0</td><td>0</td></tr> <tr><td>8</td><td>8</td><td>8</td><td>8</td><td>0</td><td>0</td></tr> <tr><td>9</td><td>9</td><td>9</td><td>9</td><td>0</td><td>0</td></tr> </table>						0	0	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8	8	9	9	9	9	1	8	0	0	0	0	9	1	0	1	0	0	2	2	0	2	0	0	3	3	0	3	0	0	4	4	4	0	4	0	5	5	5	5	0	0	6	6	6	6	0	0	7	7	7	7	0	0	8	8	8	8	0	0	9	9	9	9	0	0	<p>a. Age</p> <table border="1"> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td>0</td><td>0</td><td>0</td><td>0</td></tr> <tr><td>1</td><td>1</td><td>1</td><td>1</td></tr> <tr><td>2</td><td>2</td><td>2</td><td>2</td></tr> <tr><td>3</td><td>3</td><td>3</td><td>3</td></tr> <tr><td>4</td><td>4</td><td>4</td><td>4</td></tr> <tr><td>5</td><td>5</td><td>5</td><td>5</td></tr> <tr><td>6</td><td>6</td><td>6</td><td>6</td></tr> <tr><td>7</td><td>7</td><td>7</td><td>7</td></tr> <tr><td>8</td><td>8</td><td>8</td><td>8</td></tr> <tr><td>9</td><td>9</td><td>9</td><td>9</td></tr> </table> <p>b. Year of birth</p> <table border="1"> <tr><td>1</td><td>8</td><td>0</td><td>0</td><td>0</td><td>0</td></tr> <tr><td>9</td><td>1</td><td>0</td><td>1</td><td>0</td><td>0</td></tr> <tr><td>2</td><td>2</td><td>0</td><td>2</td><td>0</td><td>0</td></tr> <tr><td>3</td><td>3</td><td>0</td><td>3</td><td>0</td><td>0</td></tr> <tr><td>4</td><td>4</td><td>4</td><td>0</td><td>4</td><td>0</td></tr> <tr><td>5</td><td>5</td><td>5</td><td>5</td><td>0</td><td>0</td></tr> <tr><td>6</td><td>6</td><td>6</td><td>6</td><td>0</td><td>0</td></tr> <tr><td>7</td><td>7</td><td>7</td><td>7</td><td>0</td><td>0</td></tr> <tr><td>8</td><td>8</td><td>8</td><td>8</td><td>0</td><td>0</td></tr> <tr><td>9</td><td>9</td><td>9</td><td>9</td><td>0</td><td>0</td></tr> </table>						0	0	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8	8	9	9	9	9	1	8	0	0	0	0	9	1	0	1	0	0	2	2	0	2	0	0	3	3	0	3	0	0	4	4	4	0	4	0	5	5	5	5	0	0	6	6	6	6	0	0	7	7	7	7	0	0	8	8	8	8	0	0	9	9	9	9	0	0
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<p>6. Marital status</p> <p>Fill ONE circle for each person.</p>	<p><input type="radio"/> Now married <input type="radio"/> Separated</p> <p><input type="radio"/> Widowed <input type="radio"/> Never married</p> <p><input type="radio"/> Divorced</p>		<p><input type="radio"/> Now married <input type="radio"/> Separated</p> <p><input type="radio"/> Widowed <input type="radio"/> Never married</p> <p><input type="radio"/> Divorced</p>																																																																																																																																																																																																																	
<p>7. Is this person of Spanish/Hispanic origin?</p> <p>Fill ONE circle for each person.</p> <p>If Yes, other Spanish/Hispanic, print one group. →</p>	<p><input type="radio"/> No (not Spanish/Hispanic)</p> <p><input type="radio"/> Yes, Mexican, Mexican-Am., Chicano</p> <p><input type="radio"/> Yes, Puerto Rican ■</p> <p><input type="radio"/> Yes, Cuban</p> <p><input type="radio"/> Yes, other Spanish/Hispanic (Print one group, for example: Argentinean, Colombian, Dominican, Nicaraguan, Salvadoran, Spaniard, and so on.) →</p>		<p><input type="radio"/> No (not Spanish/Hispanic)</p> <p><input type="radio"/> Yes, Mexican, Mexican-Am., Chicano</p> <p><input type="radio"/> Yes, Puerto Rican</p> <p><input type="radio"/> Yes, Cuban</p> <p><input type="radio"/> Yes, other Spanish/Hispanic (Print one group, for example: Argentinean, Colombian, Dominican, Nicaraguan, Salvadoran, Spaniard, and so on.) →</p>																																																																																																																																																																																																																	
<p>FOR CENSUS USE →</p>	<p><input type="radio"/></p> <p><input type="radio"/></p>		<p><input type="radio"/></p> <p><input type="radio"/></p>																																																																																																																																																																																																																	

PERSON 7

Last name _____

First name _____ Middle initial _____

If a **RELATIVE** of Person 1:

Husband/wife Brother/sister
 Natural-born or adopted son/daughter Father/mother or Grandchild
 Stepson/stepdaughter Other relative

If **NOT RELATED** to Person 1:

Roomer, boarder, or foster child Unmarried partner
 Housemate, roommate Other nonrelative

Male Female

White
 Black or Negro
 Indian (Amer.) (Print the name of the enrolled or principal tribe.)
 Eskimo
 Aleut
 Asian or Pacific Islander (API)
 Chinese Japanese
 Filipino Asian Indian
 Hawaiian Samoan
 Korean Guamanian
 Vietnamese Other API
 Other race (Print race)

a. Age	b. Year of birth
0 0 0 0 0	1 8 0 0 0
1 1 1 1 1	9 1 1 1 1
2 2 2 2 2	2 2 2 2 2
3 3 3 3 3	3 3 3 3 3
4 4 4 4 4	4 4 4 4 4
5 5 5 5 5	5 5 5 5 5
6 6 6 6 6	6 6 6 6 6
7 7 7 7 7	7 7 7 7 7
8 8 8 8 8	8 8 8 8 8
9 9 9 9 9	9 9 9 9 9

Now married Separated
 Widowed Never married
 Divorced

No (not Spanish/Hispanic)
 Yes, Mexican, Mexican-Am., Chicano
 Yes, Puerto Rican
 Yes, Cuban
 Yes, other Spanish/Hispanic (Print one group, for example: Argentinean, 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

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?

<input type="radio"/> Less than \$10,000	<input type="radio"/> \$70,000 to \$74,999
<input type="radio"/> \$10,000 to \$14,999	<input type="radio"/> \$75,000 to \$79,999
<input type="radio"/> \$15,000 to \$19,999	<input type="radio"/> \$80,000 to \$89,999
<input type="radio"/> \$20,000 to \$24,999	<input type="radio"/> \$90,000 to \$99,999
<input type="radio"/> \$25,000 to \$29,999	<input type="radio"/> \$100,000 to \$124,999
<input type="radio"/> \$30,000 to \$34,999	<input type="radio"/> \$125,000 to \$149,999
<input type="radio"/> \$35,000 to \$39,999	<input type="radio"/> \$150,000 to \$174,999
<input type="radio"/> \$40,000 to \$44,999	<input type="radio"/> \$175,000 to \$199,999
<input type="radio"/> \$45,000 to \$49,999	<input type="radio"/> \$200,000 to \$249,999
<input type="radio"/> \$50,000 to \$54,999	<input type="radio"/> \$250,000 to \$299,999
<input type="radio"/> \$55,000 to \$59,999	<input type="radio"/> \$300,000 to \$399,999
<input type="radio"/> \$60,000 to \$64,999	<input type="radio"/> \$400,000 to \$499,999
<input type="radio"/> \$65,000 to \$69,999	<input type="radio"/> \$500,000 or more

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

Answer only if you **PAY RENT** for this house or apartment —

H7a. What is the monthly rent?

<input type="radio"/> Less than \$80	<input type="radio"/> \$375 to \$399
<input type="radio"/> \$80 to \$99	<input type="radio"/> \$400 to \$424
<input type="radio"/> \$100 to \$124	<input type="radio"/> \$425 to \$449
<input type="radio"/> \$125 to \$149	<input type="radio"/> \$450 to \$474
<input type="radio"/> \$150 to \$174	<input type="radio"/> \$475 to \$499
<input type="radio"/> \$175 to \$199	<input type="radio"/> \$500 to \$524
<input type="radio"/> \$200 to \$224	<input type="radio"/> \$525 to \$549
<input type="radio"/> \$225 to \$249	<input type="radio"/> \$550 to \$599
<input type="radio"/> \$250 to \$274	<input type="radio"/> \$600 to \$649
<input type="radio"/> \$275 to \$299	<input type="radio"/> \$650 to \$699
<input type="radio"/> \$300 to \$324	<input type="radio"/> \$700 to \$749
<input type="radio"/> \$325 to \$349	<input type="radio"/> \$750 to \$999
<input type="radio"/> \$350 to \$374	<input type="radio"/> \$1,000 or more

H3. How many rooms do you have in this house or apartment? Do NOT count bathrooms, porches, balconies, foyers, halls, or half-rooms.

<input type="radio"/> 1 room	<input type="radio"/> 4 rooms	<input type="radio"/> 7 rooms
<input type="radio"/> 2 rooms	<input type="radio"/> 5 rooms	<input type="radio"/> 8 rooms
<input type="radio"/> 3 rooms	<input type="radio"/> 6 rooms	<input type="radio"/> 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?

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"/> First form <input type="radio"/> Regular <input type="radio"/> Cont'n <input type="radio"/> Usual home elsewhere	<input type="radio"/> Less than 1 <input type="radio"/> 6 up to 12 <input type="radio"/> 1 up to 2 <input type="radio"/> 12 up to 24 <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"/> For sale only <input type="radio"/> For migrant workers <input type="radio"/> Rented or sold, not occupied <input type="radio"/> Other vacant		<input type="radio"/> LR <input type="radio"/> TC <input type="radio"/> QA JIC 1 <input type="radio"/> P/F <input type="radio"/> RE <input type="radio"/> I/T <input type="radio"/> <input type="radio"/> MV <input type="radio"/> ED <input type="radio"/> EN <input type="radio"/>	
	C2. Is this unit boarded up?	F. Cov.		
	<input type="radio"/> Yes <input type="radio"/> No		<input type="radio"/> 1b <input type="radio"/> 1a <input type="radio"/> 7 <input type="radio"/> H1	

H8. When did the person listed in column 1 on page 2 move into this house or apartment?

- 1989 or 1990
- 1985 to 1988
- 1980 to 1984
- 1970 to 1979
- 1960 to 1969
- 1959 or earlier

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?

- No bedroom
- 1 bedroom
- 2 bedrooms
- 3 bedrooms
- 4 bedrooms
- 5 or more bedrooms

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?

- Yes, have all three facilities
- No

H11. Do you have COMPLETE kitchen facilities; that is, 1) a sink with piped water, 2) a range or cookstove, and 3) a refrigerator?

- Yes
- No

H12. Do you have a telephone in this house or apartment?

- Yes
- No

H13. How many automobiles, vans, and trucks of one-ton capacity or less are kept at home for use by members of your household?

- None
- 1
- 2
- 3
- 4
- 5
- 6
- 7 or more

H14. Which FUEL is used MOST for heating this house or apartment?

- Gas: from underground pipes serving the neighborhood
- Gas: bottled, tank, or LP
- Electricity
- Fuel oil, kerosene, etc.
- Coal or coke
- Wood
- Solar energy
- Other fuel
- No fuel used

H15. Do you get water from --

- A public system such as a city water department, or private company?
- An individual drilled well?
- An individual dug well?
- Some other source such as a spring, creek, river, cistem, etc.?

H16. Is this building connected to a public sewer?

- Yes, connected to public sewer
- No, connected to septic tank or cesspool
- No, use other means

H17. About when was this building first built?

- 1989 or 1990
- 1985 to 1988
- 1980 to 1984
- 1970 to 1979
- 1960 to 1969
- 1950 to 1959
- 1940 to 1949
- 1939 or earlier
- Don't know

H18. Is this house or apartment part of a condominium?

- Yes
- No

If you live in an apartment building, skip to H20.

H19a. Is this house on less than 1 acre?

- Yes — Skip to H20
- No

b. In 1989, what were the actual sales of all agricultural products from this property?

- None
- \$1 to \$999
- \$1,000 to \$2,499
- \$2,500 to \$4,999
- \$5,000 to \$9,999
- \$10,000 or more

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.

a. Electricity

\$ _____ .00
Yearly cost — Dollars

OR

- Included in rent or in condominium fee
- No charge or electricity not used

b. Gas

\$ _____ .00
Yearly cost — Dollars

OR

- Included in rent or in condominium fee
- No charge or gas not used

c. Water

\$ _____ .00
Yearly cost — Dollars

OR

- Included in rent or in condominium fee
- No charge

d. Oil, coal, kerosene, wood, etc.

\$ _____ .00
Yearly cost — Dollars

OR

- Included in rent or in condominium fee
- No charge or these fuels not used

9
8
7
6
5
4
3
2
1
0

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 mortgage 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 Skip to 28
 Ferryboat Other method
 Taxicab

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

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,
 Wholesale trade government, etc.)
 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 B.

Methodology of Response Error Evaluation

COMPUTATION OF RESPONSE ERROR MEASURES AND THEIR 90-PERCENT CONFIDENCE INTERVALS

This section presents the computational forms of the response error measures used in this report along with a numerical example.

Display of Cross-Tabulated Data—General Procedure

[Display of cross-tabulated data for characteristic with L categories ($L \geq 2$). The general term X_{ij} represents the number of unweighted sample elements in the i^{th} category in the reinterview and j^{th} category in the census]

Reinterview classification ($i = 1, \dots, L$)	Census classification ($j = 1, \dots, L$)								
	Total matched H.U.'s	Not reported	Total	Category 1	Category 2	...	Category j	...	Category L
Total-matched H.U.'s.....	$n'_{..1}$								
Not reported ²									
Total.....			$n..^3$	$X_{.1}$	$X_{.2}$	...	$X_{.j}$	...	$X_{.L}$
Category 1.....			$X_{1.}$	X_{11}	X_{12}	...	X_{1j}	...	X_{1L}
Category 2.....			$X_{2.}$	X_{21}	X_{22}	...	X_{2j}	...	X_{2L}
.....		
.....		
Category i.....			$X_{i.}$	X_{i1}	X_{i2}	...	X_{ij}	...	X_{iL}
.....		
.....		
Category L.....			$X_{L.}$	X_{L1}	X_{L2}	...	X_{Lj}	...	X_{LL}

¹ $n'_{..1}$ is the total number of sample cases. In the actual data tables, row 1 and column 1 contain the appropriate marginal totals.

² In the actual data tables, row 2 and column 2 contain the numbers of cases for which there was no report for that item in either the census or reinterview.

³ $n..$ is the total number of sample cases for which there was a report in both the census and reinterview; that is, the total sample cases minus the "not reported" cases.

Example of Procedure—Marital Status (Unedited Data; 1990)

Reinterview classification ($i = 1, \dots, 5$)	Census classification ($j = 1, \dots, 5$)							
	Total matched persons	Not reported	Reported	Now married	Widowed	Divorced	Separated	Never married
Total-matched persons.....	29,647	440	29,207	13,811	1,725	1,935	507	11,229
Not reported.....	4,704	97	4,607	1,588	188	374	128	2,329
Reported	24,943	343	24,600	12,223	1,537	1,561	379	8,900
Now married.....	12,367	61	12,306	12,011	22	77	40	156
Widowed.....	1,602	18	1,584	51	1,466	41	12	14
Divorced.....	1,582	21	1,561	31	27	1,368	94	41
Separated.....	334	7	327	60	5	34	212	16
Never married.....	9,058	236	8,822	70	17	41	21	8,673

COMPUTING THE NET DIFFERENCE RATE AND INDEX OF INCONSISTENCY

Net Difference Rate for Category *i*

$$NDR = \frac{\sum (X_i - X_{ij})}{n} \times 100$$

Net Difference Rate, Marital Status Category "Separated":

$$NDR = \frac{379 - 327}{24600} \times 100 = \frac{52}{24600} \times 100 = .21$$

Index of Inconsistency for Category *i*

$$\hat{I} = \frac{\sum (X_i - X_{ij})^2}{\sum (X_i - \bar{X}_i)^2} \times 100$$

Index of Inconsistency, Marital Status Category "Separated"

$$\hat{I} = \frac{\frac{1}{24600} (379 - 24600)^2 + \frac{1}{24600} (327 - 24600)^2}{\frac{1}{24600} (379 - 24273)^2 + \frac{1}{24600} (327 - 24221)^2} \times 100 = \frac{706424}{695.92} \times 100 = 40.52$$

L-fold Index of Inconsistency

$$\hat{I}_L = \frac{\sum (X_i - X_{ij})^L}{\sum (X_i - \bar{X}_i)^L} \times 100$$

L-fold Index of Inconsistency, Marital Status:

$$\hat{I}_L = \frac{24600^{12011} (1466 - 1368)^{212} (8673)}{24600^{12223} (12306 - 1537)^{1584} (1561 - 1561)^{379} (327 - 8900)^{8822}} \times 100 = \frac{24600^{23730}}{24600^{9509.24}} \times 100 = 5.77$$

COMPUTING 90-PERCENT CONFIDENCE INTERVALS

Net Difference Rate for Category *i*

$$\frac{\sum (X_i - X_{ij})}{n} \pm \frac{Z}{2n} \sum (X_i - X_{ij})^2 \times 100$$

where Z = 1.645

Exceptions:

- a. If $(X_i - X_{ij}) = 0$, then widen the upper confidence limit by adding $\frac{Z^2}{2n} \times 100$
- b. If $(X_i - X_{ij}) = 0$, then widen the lower confidence limit by subtracting $\frac{Z^2}{2n} \times 100$
- c. If both a & b above, the confidence limits are estimated as $\pm \frac{Z^2}{n} \times 100$

90-PERCENT CONFIDENCE INTERVAL OF NET DIFFERENCE RATE FOR MARITAL STATUS CATEGORY "SEPARATED"

Low 90-percent confidence limit is

$$1. \frac{\$379\$327\$ \frac{1.645}{2} \sqrt{1.645^2 \$4 \$379\$327\$2 \$212\$}}{24600} \times \$100\$$$

$$\frac{52\$ \$.82\$ \$33.63\$}{24600} \times \$100\$ = .099$$

High 90-percent confidence limit is

$$2. \frac{\$379\$327\$ + \frac{1.645}{2} \sqrt{1.645^2 \$4 \$379\$327\$2 \$212\$}}{24600} \times \$100\$$$

$$\frac{52\$ \$.82\$ \$33.63\$}{24600} \times \$100\$ = .323$$

90-PERCENT CONFIDENCE INTERVAL FOR INDEX OF INCONSISTENCY FOR CATEGORY *i*:

1. If $\frac{X_i X_i}{n} \leq .10$, the 90-percent confidence limits are

$$\frac{\$X_i \$X_i \$2X_{ii} \frac{Z^2}{2} \pm \frac{Z}{2} \$Z^2 \$4 \$X_i \$X_i \$2X_{ii} \$1^2}{X_i \$1 \$ \frac{X_i}{n} \$ X_i \$1 \$ \frac{X_i}{n}} \times \$100\$$$

where $Z = 1.645$

2. If $\frac{X_i X_i}{n} \geq .10$, the 90-percent confidence limits are

$$\frac{\$X_i \$X_i \$2X_{ii} \frac{Z^2}{2} \pm Z \$ \frac{1}{n} \$X_i \$X_i \$2X_{ii} \$n \$X_i \$X_i \$2X_{ii} \$1^2}{X_i \$1 \$ \frac{X_i}{n} \$ X_i \$1 \$ \frac{X_i}{n}} \times \$100\$$$

where $Z = 1.645$

90-PERCENT CONFIDENCE INTERVAL FOR INDEX OF INCONSISTENCY FOR MARITAL STATUS CATEGORY "SEPARATED"

$$1. \frac{379\$327\$2 \$212\$}{24600} = .01$$

2. Low 90-percent confidence limit is

$$\frac{\$379\$327\$2 \$212\$ \frac{1.645^2}{2} \$ \frac{1.645}{2} \sqrt{1.645^2 \$4 \$379 \$327 \$2 \$212\$}}{379\$1\$ \frac{327}{24600} \$ \$327\$1\$ \frac{379}{24600} \$}$$

$$= \frac{283.35\$ \$.82\$ \$33.63\$}{373.96\$321.96} \times \$100\$ = 36.75$$

3. High 90-percent confidence limit is

$$\frac{\$379\$327\$2 \$212\$ \$ \frac{1.645^2}{2} \$ \$ \frac{1.645}{2} \sqrt{1.645^2 \$4 \$379 \$ 327 \$2 \$212\$ \$}}{379\$1\$ \frac{327}{24600} \$ \$327\$1\$ \frac{379}{24600} \$} \times \$100\$$$

$$= \frac{283.35\$ \$.82\$ \$33.63\$}{373.96\$321.96} \times \$100\$ = 44.68$$

90-PERCENT CONFIDENCE INTERVAL FOR L-FOLD INDEX OF INCONSISTENCY:

1. If $\frac{\$n - \$X_i}{n} \leq .10$, the 90 percent confidence limits are

$$\frac{\$n\$ \$ X_i \$ \frac{Z^2}{2} \$ \pm \frac{Z}{2} \$ Z^2 \$4 \$n\$ \$ X_i \$ \$^{1\$2}}{\$n\$ \frac{1}{n} \$ X_i \$} \times \$100\$$$

where Z = 1.645

2. If $\frac{\$n\$ \$ X_i}{n} \leq .10$ the 90-percent confidence limits are

$$\frac{\$n\$ \$ X_i \$ \frac{Z^2}{2} \$ \pm Z \frac{1}{n} \$n\$ \$ X_i \$ \$ X_i \$^{1\$2}}{\$n\$ \frac{1}{n} \$ X_i \$} \times \$100\$$$

where Z = 1.645

90-PERCENT CONFIDENCE INTERVAL FOR L-FOLD INDEX OF INCONSISTENCY, MARITAL STATUS

$$1. \frac{24600\$ \$12011\$ \$1466\$ \$1368\$ \$212\$ \$8673\$}{24600} = .04$$

2. Low 90-percent confidence limit is

$$\frac{24600\$ \$12011\$ \$1466\$ \$1368\$ \$212\$ \$8673\$ \$ \frac{1.645^2}{2} \$ \$ \frac{1.645}{2} \sqrt{1.645^2 \$4 \$24600 \$ \$12011\$ \$1466\$ \$1368\$ \$212\$ \$8673\$ \$}}{24600\$ \$ \frac{1}{24600} \$ \$12223\$ \$12306\$ \$ \$1537\$ \$1584\$ \$ \$1561\$ \$1561\$ \$ \$379\$ \$327\$ \$ \$8900\$ \$8822\$ \$} \times \$100\$$$

$$= \frac{871.35\$ \$.82\$ \$59.01\$}{24600\$ \$9509.24} \times \$100\$ = 5.45$$

3. High 90-percent confidence limit is

$$\frac{24600\$ \$12011\$ \$1466\$ \$1368\$ \$212\$ \$8673\$ \$ \frac{1.645^2}{2} \$ \$ \frac{1.645}{2} \sqrt{1.645^2 \$4 \$24600 \$ \$12011\$ \$1466\$ \$1368\$ \$212\$ \$8673\$ \$}}{24600\$ \$ \frac{1}{24600} \$ \$12223\$ \$12306\$ \$ \$1537\$ \$1584\$ \$ \$1561\$ \$1561\$ \$ \$379\$ \$327\$ \$ \$8900\$ \$8822\$ \$} \times \$100\$$$

$$= \frac{871.35\$ \$.82\$ \$59.01\$}{24600\$ \$9509.24} \times \$100\$ = 6.09$$

$$\frac{\sum_{i=1}^n X_i}{n}$$

≤ .10 the 90-percent confidence limits are

$$\frac{\sum_{i=1}^n X_i}{n}$$

≤ .10 the 90-percent confidence limits are

APPENDIX C. Data Comparison Tables for Housing Characteristics

Table C.1. Census Question H2—Which Best Describes This Building?—Unedited, Total Units: 1990 Census

Reinterview classification	Census classification												
	Total	Not reported ¹	Re-reported	1	2	3	4	5	6	7	8	9	10
Total	12,872	127	12,745	853	8,218	607	529	562	546	445	349	527	109
Not reported ²	2,401	74	2,327	162	1,107	149	133	176	155	144	110	167	24
Reported	10,471	53	10,418	691	7,111	458	396	386	391	301	239	360	85
Item responses													
1. A mobile home or trailer	702	2	700	644	52	1	2	0	0	0	0	1	0
2. A 1-family house detached from any other house	7,225	39	7,186	43	6,937	60	62	16	11	12	5	5	35
3. A 1-family house attached to 1 or more houses	552	5	547	1	53	341	62	24	34	12	7	5	8
4. A building with 2 apartments	263	1	262	1	26	18	200	10	0	2	0	1	4
5. A building with 3 or 4 apartments	372	0	372	0	7	13	34	265	28	7	7	6	5
6. A building with 5 to 9 apartments	370	2	368	0	7	8	4	34	235	45	13	19	3
7. A building with 10 to 19 apartments	276	0	276	0	4	2	0	16	44	173	22	14	1
8. A building with 20 to 49 apartments	248	1	247	1	0	3	1	4	14	33	159	28	4
9. A building with 50 or more apartments	339	2	337	0	3	0	1	5	18	12	23	267	8
10. Other	124	1	123	1	22	12	30	12	7	5	3	14	17

¹Not reported includes individual item nonresponse.

²Not reported includes individual item nonresponse, household refusals, movers, vacants, and other noninterviews (that is, households with language barriers, all household members ill, hospitalized, or temporarily absent during the entire survey period, and so forth).

Table C.2. Census Question H19A—Is This House on Less Than 1 Acre?—Unedited: 1990 Census

Reinterview classification	Census classification				
	Total	Not reported ¹	Reported	1	2
Total	12,872	2,846	10,026	7,656	2,370
Not reported ²	4,280	2,069	2,211	1,775	436
Reported	8,592	777	7,815	5,881	1,934
Item responses					
1. Yes	6,545	604	5,941	5,510	431
2. No	2,047	173	1,874	371	1,503

¹Not reported includes individual item nonresponse. This question was asked of only single units.

²Not reported includes individual item nonresponse, household refusals, movers, vacants, and other noninterviews (that is, households with language barriers, all household members ill, hospitalized, or temporarily absent during the entire survey period, and so forth). This question was asked of only single units.

Table C.3. Census Question H19B—In 1989, What Were the Actual Sales of All Agricultural Products From This Property?—Unedited: 1990 Census

Reinterview classification	Census classification								
	Total	Not reported ¹	Reported	1	2	3	4	5	6
Total	12,872	10,751	2,121	1,863	60	43	30	34	91
Not reported ²	11,314	10,665	649	569	12	16	11	11	30
Reported	1,558	86	1,472	1,294	48	27	19	23	61
Item responses									
1. None	1,390	78	1,312	1,257	27	9	6	5	8
2. \$1 to \$999	36	1	35	15	11	4	2	2	1
3. \$1,000 to \$2,499	24	2	22	5	5	11	1	0	0
4. \$2,500 to \$4,999	18	1	17	3	3	1	7	1	2
5. \$5,000 to \$9,999	21	1	20	2	1	0	2	10	5
6. \$10,000 or more	69	3	66	12	1	2	1	5	45

¹Not reported includes individual item nonresponse. This question was asked of only single units on 1 acre or more.

²Not reported includes individual item nonresponse, household refusals, movers, vacants, and other noninterviews (that is, households with language barriers, all household members ill, hospitalized, or temporarily absent during the entire survey period, and so forth). This question was asked of only single units on 1 acre or more.

Table C.4. Census Question H4—(Tenure) Is This House or Apartment. . .?—Unedited, Total Units: 1990 Census

Reinterview classification	Census classification						
	Total	Not reported ¹	Reported	1	2	3	4
Total	12,872	172	12,700	5,357	3,081	3,995	267
Not reported ²	2,448	62	2,386	696	415	1,217	58
Reported	10,424	110	10,314	4,661	2,666	2,778	209
Item responses							
1. Owned by you or someone in this household with a mortgage or loan	4,510	44	4,466	4,222	111	126	7
2. Owned by you or someone in this household free and clear (without a mortgage)	2,978	43	2,935	368	2,489	37	41
3. Rented for cash rent	2,721	21	2,700	51	29	2,579	41
4. Occupied without payment of cash rent ..	215	2	213	20	37	36	120

¹Not reported includes individual item nonresponse.

²Not reported includes individual item nonresponse, household refusals, movers, vacants, and other noninterviews (that is, households with language barriers, all household members ill, hospitalized, or temporarily absent during the entire survey period, and so forth).

Table C.5. Census Question 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?—Unedited, Total Units: 1990 Census

Reinterview classification	Census classification				
	Total	Not reported ¹	Reported	1	2
Total	12,872	738	12,134	12,022	112
Not reported ²	2,362	263	2,099	2,074	25
Reported	10,510	475	10,035	9,948	87
Item responses					
1. Yes	10,430	471	9,959	9,910	49
2. No	80	4	76	38	38

¹Not reported includes individual item nonresponse.

²Not reported includes individual item nonresponse, household refusals, movers, vacants, and other noninterviews (that is, households with language barriers, all household members ill, hospitalized, or temporarily absent during the entire survey period, and so forth).

Table C.6. Census Question H13—How Many Automobiles, Vans, and Trucks of 1-Ton Capacity or Less Are Kept at Home for Use by Members of Your Household?—Unedited, Total Units: 1990 Census

Reinterview classification	Census classification										
	Total	Not reported ¹	Reported	1	2	3	4	5	6	7	8
Total.....	12,872	980	11,892	1,255	3,934	4,478	1,605	445	116	38	21
Not reported ²	2,407	396	2,011	365	767	617	179	54	18	6	5
Reported	10,465	584	9,881	890	3,167	3,861	1,426	391	98	32	16
Item responses											
1. None.....	929	93	836	730	94	10	1	1	0	0	0
2. 1.....	3,329	198	3,131	119	2,665	296	40	10	0	1	0
3. 2.....	4,091	195	3,896	31	368	3,122	324	38	11	1	1
4. 3.....	1,490	69	1,421	8	32	347	890	123	14	6	1
5. 4.....	464	21	443	2	8	71	136	173	41	9	3
6. 5.....	122	6	116	0	0	12	25	38	29	8	4
7. 6.....	28	0	28	0	0	2	9	5	3	6	3
8. 7 or more.....	12	2	10	0	0	1	1	3	0	1	4

¹Not reported includes individual item nonresponse.

²Not reported includes individual item nonresponse, household refusals, movers, vacants, and other noninterviews (that is, households with language barriers, all household members ill, hospitalized, or temporarily absent during the entire survey period, and so forth).

Table C.7. Census Question H17— About When Was This Building First Built?—Unedited, Total Units: 1990 Census

Reinterview classification	Census classification											
	Total	Not reported ¹	Reported	1	2	3	4	5	6	7	8	9
Total.....	12,872	856	12,016	130	880	898	2,206	1,628	1,436	800	1,712	2,326
Not reported ²	2,518	327	2,191	22	159	160	331	262	211	120	276	650
Reported	10,354	529	9,825	108	721	738	1,875	1,366	1,225	680	1,436	1,676
Item responses												
1. 1989 or 1990.....	152	7	145	69	37	10	8	3	0	1	2	15
2. 1985 to 1988.....	793	32	761	28	582	89	21	1	3	2	3	32
3. 1980 to 1984.....	819	41	778	2	76	503	119	14	0	1	2	61
4. 1970 to 1979.....	2,178	109	2,069	2	9	109	1,518	189	24	6	5	207
5. 1960 to 1969.....	1,532	78	1,454	3	5	3	106	946	177	19	21	174
6. 1950 to 1959.....	1,356	53	1,303	0	2	2	25	116	832	113	36	177
7. 1940 to 1949.....	791	46	745	1	1	1	3	20	86	382	112	139
8. 1939 or earlier.....	2,010	110	1,900	2	0	3	14	19	48	120	1,183	511
9. Don't know.....	723	53	670	1	9	18	61	58	55	36	72	360

¹Not reported includes individual item nonresponse.

²Not reported includes individual item nonresponse, household refusals, movers, vacants, and other noninterviews (that is, households with language barriers, all household members ill, hospitalized, or temporarily absent during the entire survey period, and so forth).

Table C.8. Census Question H7A—What Is the Monthly Rent?—Unedited: 1990 Census

Reinterview classification	Census classification													
	Total	Not re-ported ¹	Re-ported	1	2	3	4	5	6	7	8	9	10	11
Total	12,872	8,944	3,928	173	63	118	99	166	130	222	159	220	201	236
Not reported ²	10,256	8,777	1,479	81	16	38	32	57	47	87	68	85	78	94
Reported	2,616	167	2,449	92	47	80	67	109	83	135	91	135	123	142
Item Responses														
1. Less than \$80	102	12	90	65	7	3	0	1	1	3	1	2	0	2
2. \$80 to \$99	40	1	39	7	24	3	1	0	0	2	0	0	0	0
3. \$100 to \$124	90	11	79	3	9	56	3	2	0	2	2	1	0	0
4. \$125 to \$149	70	9	61	1	0	9	40	8	1	0	0	0	1	0
5. \$150 to \$174	116	10	106	0	0	3	11	75	6	2	0	2	1	1
6. \$175 to \$199	83	7	76	1	1	1	1	7	55	1	0	1	2	1
7. \$200 to \$224	157	12	145	3	3	1	2	5	11	106	4	5	1	3
8. \$225 to \$249	83	5	78	1	0	1	0	0	1	9	58	4	0	1
9. \$250 to \$274	143	7	136	4	2	1	1	2	1	4	13	97	5	0
10. \$275 to \$299	122	6	116	0	0	0	1	3	1	2	1	9	82	9
11. \$300 to \$324	167	15	152	1	0	0	2	2	2	1	3	7	20	96
12. \$325 to \$349	96	5	91	1	0	1	0	0	1	0	4	2	4	12
13. \$350 to \$374	145	8	137	1	0	0	0	3	2	1	0	2	1	9
14. \$375 to \$399	125	6	119	1	0	0	1	0	0	0	1	1	4	3
15. \$400 to \$424	145	9	136	1	1	1	0	0	0	1	2	0	1	2
16. \$425 to \$449	84	3	81	1	0	0	1	0	1	0	0	0	0	1
17. \$450 to \$474	113	5	108	0	0	0	1	0	0	0	1	0	0	1
18. \$475 to \$499	85	4	81	0	0	0	1	0	0	0	0	0	0	0
19. \$500 to \$524	90	6	84	0	0	0	0	0	0	0	1	0	0	0
20. \$525 to \$549	42	1	41	0	0	0	0	0	0	0	0	0	0	1
21. \$550 to \$599	119	7	112	0	0	0	0	0	0	0	0	0	1	0
22. \$600 to \$649	93	3	90	0	0	0	0	0	0	0	0	0	0	0
23. \$650 to \$699	70	3	67	0	0	0	0	1	0	0	0	0	0	0
24. \$700 to \$749	62	3	59	0	0	0	0	0	0	0	0	0	0	0
25. \$750 to \$999	121	5	116	1	0	0	1	0	0	1	0	1	0	0
26. \$1,000 or more	53	4	49	0	0	0	0	0	0	0	0	1	0	0

¹Not reported includes individual item nonresponse. This question was asked of only renters.

²Not reported includes individual item nonresponse, household refusals, movers, vacants, and other noninterviews (that is, households with language barriers, all household members ill, hospitalized, or temporarily absent during the entire survey period, and so forth). This question was asked of only renters.

Table C.8. Census Question H7A—What Is the Monthly Rent?—Unedited: 1990 Census—Con.

Reinterview classification	Census classification—Con.															
	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	
Total	162	214	186	213	144	146	132	124	76	174	105	108	91	185	81	
Not reported ²	65	74	63	86	55	48	40	51	27	62	41	38	34	75	37	
Reported	97	140	123	127	89	98	92	73	49	112	64	70	57	110	44	
Item responses																
1. Less than \$80.....	0	1	0	0	1	1	0	1	0	1	0	0	0	0	0	
2. \$80 to \$99.....	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	
3. \$100 to \$124.....	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4. \$125 to \$149.....	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5. \$150 to \$174.....	1	2	0	0	1	1	0	0	0	0	0	0	0	0	0	
6. \$175 to \$199.....	0	0	1	0	0	2	1	0	0	1	0	0	0	0	0	
7. \$200 to \$224.....	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	
8. \$225 to \$249.....	0	0	1	0	0	0	2	0	0	0	0	0	0	0	0	
9. \$250 to \$274.....	0	2	1	0	0	1	0	0	1	0	1	0	0	0	0	
10. \$275 to \$299.....	0	4	1	0	1	0	1	1	0	0	0	0	0	0	0	
11. \$300 to \$324.....	8	3	3	2	1	0	0	0	0	0	0	0	0	1	0	
12. \$325 to \$349.....	59	3	0	1	1	0	2	0	0	0	0	0	0	0	0	
13. \$350 to \$374.....	18	92	2	4	0	0	1	1	0	0	0	0	0	0	0	
14. \$375 to \$399.....	4	17	78	5	1	1	0	1	0	0	1	0	0	0	0	
15. \$400 to \$424.....	2	8	26	79	5	5	0	0	0	1	0	0	0	1	0	
16. \$425 to \$449.....	0	2	3	19	45	5	2	1	0	0	0	0	0	0	0	
17. \$450 to \$475.....	0	3	2	8	24	58	6	2	0	1	1	0	0	0	0	
18. \$475 to \$499.....	0	2	0	3	6	9	56	2	0	2	0	0	0	0	0	
19. \$500 to \$524.....	0	0	3	1	1	8	13	49	3	4	1	0	0	0	0	
20. \$525 to \$549.....	0	0	0	0	0	3	2	7	24	1	2	0	1	0	0	
21. \$550 to \$599.....	0	0	1	1	1	2	2	5	13	76	4	2	2	2	0	
22. \$600 to \$649.....	0	1	0	1	1	0	3	3	3	18	48	9	1	1	1	
23. \$650 to \$699.....	1	0	1	2	0	0	1	0	3	4	6	43	4	1	0	
24. \$700 to \$749.....	2	0	0	1	0	0	0	0	1	1	0	9	40	4	1	
25. \$750 to \$999.....	0	0	0	0	0	0	0	0	1	1	0	6	9	94	1	
26. \$1,000 or more....	0	0	0	0	0	0	0	0	0	0	0	1	0	6	41	

¹Not reported includes individual item nonresponse. This question was asked of only renters.

²Not reported includes individual item nonresponse, household refusals, movers, vacants, and other noninterviews (that is, households with language barriers, all household members ill, hospitalized, or temporarily absent during the entire survey period, and so forth). This question was asked of only renters.

Table C.9. Census Question H7B—Does the Monthly Rent Include Any Meals?—Unedited: 1990 Census

Reinterview classification	Census classification				
	Total	Not reported ¹	Reported	1	2
Total	12,872	9,069	3,803	17	3,786
Not reported ²	10,138	8,798	1,340	8	1,332
Reported	2,734	271	2,463	9	2,454
Item responses					
1. Yes	7	2	5	2	3
2. No	2,727	269	2,458	7	2,451

¹Not reported includes individual item nonresponse. This question was asked of only renters.

²Not reported includes individual item nonresponse, household refusals, movers, vacants, and other noninterviews (that is, households with language barriers, all household members ill, hospitalized, or temporarily absent during the entire survey period, and so forth). This question was asked of only renters.

APPENDIX D. Data Comparison Tables for Population Characteristics

Table D.1. Census Question P7—Is This Person of Spanish/ Hispanic Origin?—Unedited, Total Persons: 1990 Census

Reinterview classification	Census classification							
	Total	Not reported ¹	Reported	1	2	3	4	5
Total	29,647	1,137	28,510	26,413	1,262	251	92	492
Not reported ²	4,760	229	4,531	4,052	280	68	18	113
Reported	24,887	908	23,979	22,361	982	183	74	379
Item responses:								
1. No (not Spanish/ Hispanic)	23,149	853	22,296	22,186	31	4	5	70
2. Yes, Mexican, Mexican-American, Chicano	1,039	24	1,015	59	917	1	0	38
3. Yes, Puerto Rican	187	5	182	11	0	167	0	4
4. Yes, Cuban	76	2	74	5	1	0	64	4
5. Yes, other Spanish/ Hispanic	436	24	412	100	33	11	5	263

¹Not reported includes individual item nonresponse.

²Not reported includes individual item nonresponse, person refusals, movers, and other noninterviews (that is, persons with language barriers, persons who were ill, hospitalized, or temporarily absent, deceased, and so forth).

Table D.2. Census Question P10—When Did This Person Come to the United States to Stay?—Unedited: 1990 Census

Reinterview classification	Census classification												
	Total	Not reported ¹	Reported	1	2	3	4	5	6	7	8	9	10
Total	29,647	26,850	2,797	321	192	224	187	371	266	209	212	358	457
Not reported ²	28,102	26,654	1,448	159	86	97	84	172	121	98	122	188	321
Reported	1,545	196	1,349	162	106	127	103	199	145	111	90	170	136
Item responses:													
1. 1987 to 1990	185	26	159	134	11	1	3	4	2	0	2	0	2
2. 1985 or 1986	130	23	107	17	75	8	4	2	0	0	0	1	0
3. 1982 to 1984	136	16	120	2	16	90	5	5	1	1	0	0	0
4. 1980 or 1981	147	22	125	2	2	24	74	17	4	1	1	0	0
5. 1975 to 1979	222	36	186	6	0	2	13	152	11	2	0	0	0
6. 1970 to 1974	164	20	144	0	0	1	1	12	118	10	1	1	0
7. 1965 to 1969	133	19	114	0	0	0	2	3	8	88	8	5	0
8. 1960 to 1964	99	12	87	0	0	1	0	2	1	3	73	7	0
9. 1950 to 1959	189	10	179	0	0	0	1	1	0	6	4	150	17
10. Before 1950	140	12	128	1	2	0	0	1	0	0	1	6	117

¹Not reported includes individual item nonresponse. This question was asked of only those persons born outside the U.S.

²Not reported includes individual item nonresponse, person refusals, movers, and other noninterviews (that is, persons with language barriers, persons who were ill, hospitalized, or temporarily absent, deceased, and so forth). This question was asked of only those persons born outside the U.S.

Table D.3. Census Question P11—At Any Time Since February 1, 1990, Has This Person Attended Regular School or College?—Unedited, Total Persons: 1990 Census

Reinterview classification	Census classification					
	Total	Not reported ¹	Reported	1	2	3
Total	29,647	2,377	27,270	20,650	5,642	978
Not reported ²	4,699	721	3,978	2,887	924	167
Reported	24,948	1,656	23,292	17,763	4,718	811
Item responses:						
1. No, has not attended since February 1	18,841	1,250	17,591	17,033	446	112
2. Yes, public school, public college	5,184	348	4,836	583	4,140	113
3. Yes, private school, private college	923	58	865	147	132	586

¹Not reported includes individual item nonresponse.

²Not reported includes individual item nonresponse, person refusals, movers, and other noninterviews (that is, persons with language barriers, persons who were ill, hospitalized, or temporarily absent, deceased, and so forth).

Table D.4. Census Question P28C—Is This Industry Mainly. . .?—Unedited: 1990 Census

Reinterview classification	Census classification						
	Total	Not reported ¹	Reported	1	2	3	4
Total	29,647	13,474	16,173	2,768	627	2,805	9,973
Not reported ²	16,423	11,730	4,693	776	169	940	2,808
Reported	13,224	1,744	11,480	1,992	458	1,865	7,165
Item responses:							
1. Manufacturing	2,238	233	2,005	1,614	65	71	255
2. Wholesale Trade	619	77	542	91	223	79	149
3. Retail Trade	2,213	271	1,942	86	77	1,282	497
4. Other	8,154	1,163	6,991	201	93	433	6,264

¹Not reported includes individual item nonresponse. This question was asked of only persons 15 years or older who reported working in 1985 or later.

²Not reported includes individual item nonresponse, person refusals, movers, and other noninterviews (that is, persons with language barriers, persons who were ill, hospitalized, or temporarily absent, deceased, and so forth). This question was asked of only persons 15 years or older who reported working since January 1, 1989 or later.

Table D.5. Census Question P30—Was This Person. . .?—Unedited: 1990 Census

Reinterview classification	Census classification										
	Total	Not reported ¹	Reported	1	2	3	4	5	6	7	8
Total	29,647	12,954	16,693	11,339	996	1,099	778	641	1,207	454	179
Not reported ²	16,470	11,516	4,954	3,448	266	297	202	189	332	108	112
Reported	13,177	1,438	11,739	7,891	730	802	576	452	875	346	67
Item responses:											
1. Employee of a PRIVATE FOR PROFIT company or business or of an individual, for wages, salary or commissions	8,751	966	7,785	7,249	164	59	38	28	142	86	19
2. Employee of a PRIVATE NOT-FOR-PROFIT, tax-exempt, or charitable organization	784	59	725	182	473	35	16	6	8	3	2
3. Local GOVERNMENT employee	920	108	812	75	47	598	75	7	6	2	2
4. State GOVERNMENT employee	678	63	615	45	34	88	433	12	2	0	1
5. Federal GOVERNMENT employee	493	36	457	30	2	16	7	397	4	1	0
6. SELF-EMPLOYED in own NOT INCORPORATED business, professional practice, or farm	1,111	156	955	190	9	5	5	2	658	61	25
7. SELF-EMPLOYED in own INCORPORATED business, professional practice, or farm	375	32	343	102	1	1	2	0	41	191	5
8. Working WITHOUT PAY in family business or farm	65	18	47	18	0	0	0	0	14	2	13

¹Not reported includes individual item nonresponse. This questions was asked of only persons 15 years or older who reported working in 1985 or later.

²Not reported includes individual item nonresponse, person refusals, movers, and other noninterviews (that is, persons with language barriers, persons who were ill, hospitalized, or temporarily absent, deceased, and so forth). This question was asked of only persons 15 years or older who reported working since January 1, 1989 or later.

Table D.6. Census Question P4—What Is This Person’s Race?—Unedited, Total Persons: 1990 Census

Reinterview classification	Census classification																		
	Total	Not reported ¹	Re-reported	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Total	29,647	578	29,069	24,286	3,098	157	3	1	137	156	31	83	43	83	67	6	9	105	804
Not reported ²	4,683	153	4,530	3,367	723	40	2	1	47	42	8	19	17	16	11	1	0	24	212
Reported	24,964	425	24,539	20,919	2,375	117	1	0	90	114	23	64	26	67	56	5	9	81	592
Item responses:																			
1. White	21,325	291	21,034	20,564	30	42	1	0	1	3	2	0	0	2	4	0	0	36	349
2. Black or Negro	2,453	47	2,406	59	2,306	2	0	0	0	1	0	0	0	0	1	0	0	3	34
3. Indian (American)	120	5	115	36	5	69	0	0	0	0	0	0	0	0	0	0	0	0	5
4. Eskimo	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5. Aleut	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6. Chinese	102	1	101	1	0	0	0	0	83	3	1	0	4	1	0	0	0	3	5
7. Filipino	101	0	101	4	0	0	0	0	0	95	0	0	0	0	0	0	0	1	1
8. Hawaiian	28	2	26	4	0	0	0	0	0	1	15	0	0	1	0	4	0	0	1
9. Korean	63	0	63	3	0	0	0	0	0	0	0	60	0	0	0	0	0	0	0
10. Vietnamese	25	0	25	0	0	0	0	0	4	0	0	0	21	0	0	0	0	0	0
11. Japanese	69	0	69	7	0	0	0	0	0	0	1	0	0	59	0	0	0	0	2
12. Asian Indian	52	0	52	3	0	0	0	0	0	0	0	1	0	1	45	0	0	2	0
13. Samoan	2	0	2	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
14. Guamanian	11	1	10	1	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0
15. Other API	90	10	80	6	7	0	0	0	2	7	4	0	0	3	5	0	0	14	32
16. Other race	522	68	454	229	27	4	0	0	0	4	0	3	1	0	1	0	0	22	163

¹Not reported includes individual item nonresponse.

²Not reported includes individual item nonresponse, person refusals, movers, and other noninterviews (that is, persons with language barriers, persons who were ill, hospitalized, or temporarily absent, deceased, and so forth).

Table D.7. Census Question P8—In What U.S. State or Foreign Country Was This Person Born?—Edited, Total Persons: 1990 Census

Reinterview classification	Census classification															
	Total	Not reported ¹	Re-reported	AL	AK	AZ	AR	CA	CO	CT	DE	DC	FL	GA	HI	
Total	27,983	0	27,983	630	25	169	380	1,571	268	314	41	108	514	630	109	
Not reported ²	10,937	0	10,937	241	14	76	143	700	125	123	16	40	211	263	56	
Reported	17,046	0	17,046	389	11	93	237	871	143	191	25	68	303	367	53	
Item responses:																
Alabama	396	0	396	377	1	0	0	0	0	0	0	0	3	1	0	
Alaska	26	0	26	0	8	1	8	0	0	0	0	0	0	0	0	
Arizona	99	0	99	0	0	85	2	2	0	0	0	0	0	0	0	
Arkansas	220	0	220	0	0	0	215	0	0	0	0	0	0	0	0	
California	865	0	865	0	0	1	0	830	0	0	0	0	3	0	0	
Colorado	149	0	149	0	0	0	0	3	138	2	0	0	0	0	0	
Connecticut	192	0	192	0	0	0	0	0	0	179	0	0	0	0	0	
Delaware	25	0	25	0	0	0	0	0	0	0	22	0	0	0	0	
District of Columbia	66	0	66	0	0	0	0	0	0	0	0	58	0	0	0	
Florida	289	0	289	1	0	0	0	2	0	1	0	0	272	2	0	
Georgia	372	0	372	1	0	0	0	0	0	0	1	0	5	354	0	
Hawaii	56	0	56	0	0	0	0	0	0	0	0	0	0	0	53	
Idaho	46	0	46	0	0	0	0	0	0	0	0	0	0	0	0	
Illinois	983	0	983	1	0	0	1	2	1	0	0	0	2	0	0	
Indiana	476	0	476	0	0	0	0	0	1	0	1	0	2	0	0	
Iowa	305	0	305	0	0	0	0	1	0	0	0	0	0	0	0	
Kansas	233	0	233	0	0	1	0	0	0	0	0	0	0	0	0	
Kentucky	380	0	380	0	0	0	0	0	1	0	0	0	0	0	0	
Louisiana	366	0	366	0	1	0	0	1	0	0	0	0	0	1	0	
Maine	89	0	89	0	0	0	0	0	0	0	0	0	0	0	0	
Maryland	210	0	210	0	0	0	0	0	1	1	0	3	0	0	0	
Massachusetts	422	0	422	0	0	0	0	0	0	1	0	0	0	2	0	
Michigan	704	0	704	1	0	0	2	0	0	0	0	0	2	1	0	
Minnesota	388	0	388	0	0	0	1	0	0	0	0	0	0	0	0	
Mississippi	283	0	283	2	0	0	2	0	0	0	0	0	0	0	0	
Missouri	441	0	441	0	0	0	0	2	0	0	0	0	0	1	0	
Montana	35	0	35	0	0	0	0	1	0	0	0	0	0	0	0	
Nebraska	140	0	140	0	0	0	0	1	0	0	0	0	0	0	0	
Nevada	17	0	17	0	0	0	0	0	0	0	0	0	0	0	0	
New Hampshire	45	0	45	0	0	0	0	0	0	0	0	0	0	0	0	
New Jersey	384	0	384	0	0	0	0	1	0	0	0	0	0	0	0	
New Mexico	52	0	52	0	0	1	0	3	0	0	0	0	0	0	0	
New York	1,278	0	1,278	1	0	0	1	3	0	2	1	0	4	1	0	
North Carolina	471	0	471	0	0	0	0	1	0	0	0	0	1	1	0	
North Dakota	64	0	64	0	0	0	0	0	0	0	0	0	0	0	0	
Ohio	887	0	887	0	0	2	0	4	0	2	0	0	0	0	0	
Oklahoma	252	0	252	0	0	0	1	1	0	0	0	1	0	1	0	
Oregon	93	0	93	0	0	0	0	0	0	0	0	0	0	0	0	
Pennsylvania	995	0	995	1	0	0	0	0	0	2	0	0	2	0	0	
Rhode Island	77	0	77	0	0	0	0	0	0	0	0	0	0	0	0	
South Carolina	282	0	282	1	0	0	0	0	0	0	0	0	1	1	0	
South Dakota	56	0	56	0	0	1	0	0	0	0	0	0	0	0	0	
Tennessee	400	0	400	2	0	0	2	0	0	0	0	0	1	0	0	
Texas	837	0	837	0	0	1	2	1	0	1	0	0	1	0	0	
Utah	79	0	79	0	0	0	0	1	1	0	0	0	0	0	0	
Vermont	19	0	19	0	0	0	0	0	0	0	0	0	0	0	0	
Virginia	372	0	372	1	0	0	0	1	0	0	0	1	2	1	0	
Washington	207	0	207	0	1	0	0	1	0	0	0	1	0	0	0	
West Virginia	224	0	224	0	0	0	0	1	0	0	0	0	0	0	0	
Wisconsin	494	0	494	0	0	0	0	0	0	0	0	0	0	0	0	
Wyoming	29	0	29	0	0	0	0	0	0	0	0	0	0	0	0	
Puerto Rico	62	0	62	0	0	0	0	0	0	0	0	0	0	0	0	
Guam	8	0	8	0	0	0	0	0	0	0	0	0	0	0	0	
American Samoa	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Virgin Islands	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Other U.S. trusts and possessions	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	
Canada	48	0	48	0	0	0	0	1	0	0	0	0	0	0	0	
Mexico	197	0	197	0	0	0	0	5	0	0	0	0	0	0	0	
All other responses	859	0	859	0	0	0	0	2	0	0	0	4	2	0	0	

¹Edited census data; not reported responses were allocated.

²Not reported includes individual item nonresponse, person refusals, movers, and other noninterviews (that is, persons with language barriers, persons who were ill, hospitalized, or temporarily absent, deceased, and so forth).

Table D.7. Census Question P8—In What U.S. State or Foreign Country Was This Person Born?—Edited, Total Persons: 1990 Census—Con.

Reinterview classification	Census classification—Con.															
	ID	IL	IN	IA	KS	KY	LA	ME	MD	MA	MI	MN	MS	MO	MT	NE
Total	75	1,507	730	528	384	607	589	146	348	661	1,128	649	429	754	63	198
Not reported ²	31	529	270	208	140	211	226	60	138	236	448	253	140	326	22	62
Reported	44	978	460	320	244	396	363	86	210	425	680	396	289	428	41	136
Item responses:																
Alabama	0	1	0	0	0	0	0	0	0	0	0	0	2	0	0	0
Alaska	0	0	0	0	0	0	1	1	0	0	1	0	0	0	0	0
Arizona	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
Arkansas	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
California	0	1	0	2	2	0	0	0	0	1	0	0	1	0	0	0
Colorado	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Connecticut	1	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0
Delaware	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0
District of Columbia	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Florida	0	0	0	0	0	0	0	0	0	1	2	1	0	0	0	0
Georgia	0	0	1	0	0	0	1	0	0	0	1	0	0	0	0	0
Hawaii	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Idaho	43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Illinois	0	956	5	0	1	1	0	0	0	0	0	0	1	1	0	0
Indiana	0	3	443	20	0	1	0	0	0	0	1	0	0	1	0	0
Iowa	0	2	1	294	0	0	0	0	0	0	0	0	1	1	1	1
Kansas	0	0	1	0	222	0	0	0	0	0	0	0	0	5	1	0
Kentucky	0	0	1	0	0	372	0	0	0	1	0	0	0	0	0	0
Louisiana	0	2	0	0	0	0	353	0	1	0	0	0	2	0	0	0
Maine	0	0	0	0	0	0	0	83	1	2	0	0	0	0	0	0
Maryland	0	1	0	0	0	0	0	0	198	0	0	1	0	1	0	0
Massachusetts	0	0	0	0	0	0	0	1	0	405	0	0	1	0	0	0
Michigan	0	0	1	0	1	1	1	0	0	0	661	5	4	0	0	0
Minnesota	0	1	0	0	0	1	0	0	0	1	0	376	0	0	0	0
Mississippi	0	2	0	0	0	0	1	0	0	0	2	0	268	3	0	0
Missouri	0	2	0	0	14	0	1	0	0	0	1	0	4	407	4	0
Montana	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33	0
Nebraska	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	135
Nevada	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
New Hampshire	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
New Jersey	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
New Mexico	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
New York	0	0	0	0	0	0	0	0	1	4	0	1	1	0	0	0
North Carolina	0	1	0	0	0	0	1	0	1	0	0	0	1	0	0	0
North Dakota	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0
Ohio	0	0	5	0	0	8	1	0	1	0	3	1	1	1	0	0
Oklahoma	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0
Oregon	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0
Pennsylvania	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
South Carolina	0	0	0	0	0	0	0	0	1	0	1	0	0	1	0	0
South Dakota	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Tennessee	0	0	0	0	0	8	0	0	0	0	1	0	1	0	0	0
Texas	0	1	0	1	2	2	0	0	1	0	1	2	0	1	0	0
Utah	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Vermont	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Virginia	0	0	1	0	0	0	0	0	1	0	1	0	0	0	0	0
Washington	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
West Virginia	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0
Wisconsin	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Wyoming	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Puerto Rico	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0
Guam	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
American Samoa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Virgin Islands	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other U.S. trusts and possessions	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Canada	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mexico	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
All other responses	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0

¹Edited census data; not reported responses were allocated.

²Not reported includes individual item nonresponse, person refusals, movers, and other noninterviews (that is, persons with language barriers, persons who were ill, hospitalized, or temporarily absent, deceased, and so forth).

Table D.7. Census Question P8—In What U.S. State or Foreign Country Was This Person Born?—Edited, Total Persons: 1990 Census—Con.

Reinterview classification	Census classification—Con.															
	NV	NH	NJ	NM	NY	NC	ND	OH	OK	OR	PA	RI	SC	SD	TN	TX
Total	45	79	618	91	2,053	749	97	1,392	401	181	1,646	126	423	92	605	1,469
Not reported ²	25	29	232	41	781	277	31	499	147	88	638	45	136	39	211	634
Reported	20	50	386	50	1,272	472	66	893	254	93	1,008	81	287	53	394	835
Item responses:																
Alabama	0	0	1	0	3	1	0	5	0	0	0	0	1	0	0	0
Alaska	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Arizona	0	0	0	0	1	0	0	2	0	0	0	1	0	0	0	4
Arkansas	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1	1
California	0	0	1	0	3	1	0	1	0	1	1	0	0	0	0	5
Colorado	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0
Connecticut	0	0	0	0	6	0	0	0	0	0	0	1	1	1	0	0
Delaware	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
District of Columbia	0	0	1	0	0	1	0	0	0	0	1	0	0	0	0	0
Florida	0	0	0	0	0	0	0	1	0	0	0	0	2	0	0	0
Georgia	0	0	1	0	0	1	0	0	0	0	1	0	1	0	4	0
Hawaii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Idaho	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Illinois	0	0	1	0	1	0	0	3	0	0	1	0	0	0	1	0
Indiana	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0
Iowa	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Kansas	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	1
Kentucky	0	0	0	0	0	1	0	2	0	0	0	0	0	0	0	0
Louisiana	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	2
Maine	0	0	0	0	0	0	0	1	0	1	0	1	0	0	0	0
Maryland	0	0	1	0	0	0	1	0	0	0	1	0	0	0	0	1
Massachusetts	0	4	0	0	1	0	0	0	0	1	0	2	0	0	0	0
Michigan	0	0	1	1	0	2	0	2	0	1	1	0	0	0	0	1
Minnesota	0	0	0	1	1	0	0	0	0	0	0	1	1	1	1	0
Mississippi	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0
Missouri	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Montana	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nebraska	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nevada	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
New Hampshire	0	44	0	0	0	0	0	0	0	0	1	0	0	0	0	0
New Jersey	0	0	362	0	9	0	0	0	1	0	4	1	0	0	1	1
New Mexico	0	0	0	44	0	0	1	0	0	0	0	0	0	0	0	0
New York	0	2	11	0	1,223	4	0	0	0	5	1	0	0	0	1	0
North Carolina	0	0	1	0	2	450	0	0	0	0	1	0	5	0	0	0
North Dakota	0	0	0	0	0	0	62	0	0	0	0	0	0	0	0	0
Ohio	0	0	0	0	1	0	0	851	2	0	2	0	0	0	2	0
Oklahoma	0	0	0	0	0	0	0	0	241	0	1	0	0	0	1	1
Oregon	1	0	0	0	0	0	0	0	0	88	0	0	0	0	0	0
Pennsylvania	0	0	3	0	1	0	0	2	0	0	979	1	0	0	0	0
Rhode Island	0	0	0	0	0	0	0	0	0	0	0	74	0	0	0	0
South Carolina	0	0	0	0	0	3	0	0	0	0	1	0	270	0	0	1
South Dakota	0	0	0	1	0	0	1	0	0	0	1	0	0	51	0	0
Tennessee	0	0	0	0	0	0	0	1	1	0	3	0	1	0	376	2
Texas	0	0	0	1	0	0	1	2	2	0	0	0	0	0	3	805
Utah	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1
Vermont	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
Virginia	0	0	0	0	1	6	0	1	0	0	1	0	1	0	0	0
Washington	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
West Virginia	0	0	0	0	0	1	0	4	0	0	0	0	0	0	0	0
Wisconsin	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Wyoming	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Puerto Rico	0	0	0	0	1	0	0	0	0	0	1	0	1	0	0	0
Guam	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
American Samoa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Virgin Islands	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other U.S. trusts and possessions	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Canada	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mexico	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2
All other responses	0	0	1	1	14	0	0	10	1	0	1	1	0	0	1	2

¹Edited census data; not reported responses were allocated.

²Not reported includes individual item nonresponse, person refusals, movers, and other noninterviews (that is, persons with language barriers, persons who were ill, hospitalized, or temporarily absent, deceased, and so forth).

Table D.7. Census Question P8—In What U.S. State or Foreign Country Was This Person Born?—Edited, Total Persons: 1990 Census—Con.

Reinterview classification	Census classification—Con.														
	UT	VT	VA	WA	WV	WI	WY	Puerto Rico	Guam	American Samoa	Virgin Islands	Other U.S.	Canada	Mexico	Other
Total	152	33	612	366	336	810	55	98	11	2	2	4	73	377	1,430
Not reported ²	74	16	240	156	110	311	27	40	3	0	2	1	29	182	585
Reported	78	17	372	210	226	499	28	58	8	2	0	3	44	195	845
Item responses:															
Alabama	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Alaska	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Arizona	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arkansas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
California	1	0	0	1	0	0	0	0	0	0	0	0	0	5	4
Colorado	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Connecticut	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Delaware	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
District of Columbia	0	0	3	1	0	0	0	0	0	0	0	0	0	0	0
Florida	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2
Georgia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hawaii	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
Idaho	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0
Illinois	0	0	0	1	0	0	0	2	0	0	0	0	0	0	1
Indiana	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Iowa	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0
Kansas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kentucky	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0
Louisiana	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Maine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Maryland	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Massachusetts	1	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Michigan	0	0	0	0	0	1	0	0	0	0	0	0	0	1	3
Minnesota	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0
Mississippi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Missouri	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0
Montana	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nevada	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
New Hampshire	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
New Jersey	0	0	3	0	0	0	0	0	0	0	0	0	0	0	1
New Mexico	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
New York	0	0	1	0	0	1	0	3	0	0	0	0	0	0	6
North Carolina	0	0	4	0	1	0	0	0	0	0	0	0	0	0	0
North Dakota	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ohio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oklahoma	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Oregon	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0
Pennsylvania	0	0	1	0	2	0	0	0	0	0	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
South Carolina	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
South Dakota	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tennessee	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Texas	1	0	3	0	0	0	0	0	0	0	0	0	0	2	0
Utah	73	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vermont	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0
Virginia	0	0	346	1	5	0	0	0	0	0	0	0	0	0	1
Washington	0	0	0	200	0	1	0	0	0	0	0	0	0	0	0
West Virginia	0	0	2	0	214	0	0	0	0	0	0	0	0	0	0
Wisconsin	0	0	2	1	0	488	0	0	0	0	0	0	0	0	0
Wyoming	0	0	0	0	0	0	28	0	0	0	0	0	0	0	0
Puerto Rico	0	0	0	0	0	0	0	51	0	0	0	2	0	1	1
Guam	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0
American Samoa	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
U.S. Virgin Islands	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other U.S. trusts and possessions	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Canada	0	0	0	1	0	0	0	0	0	0	0	0	43	0	3
Mexico	0	0	0	0	0	0	0	0	0	0	0	0	0	183	3
All other responses	0	0	0	0	1	0	0	1	0	0	0	0	0	1	815

¹Edited census data; not reported responses were allocated.

²Not reported includes individual item nonresponse, person refusals, movers, and other noninterviews (that is, persons with language barriers, persons who were ill, hospitalized, or temporarily absent, deceased, and so forth).

Table D.8. Census Question P12—How Much School Has This Person Completed?—Unedited, Total Persons: 1990 Census

Reinterview classification	Census classification								
	Total	Not reported ¹	Reported	1	2	3	4	5	6
Total	29,647	2,641	27,006	1,929	430	426	1,748	2,931	954
Not reported ²	7,971	1,224	6,747	372	69	165	991	1,541	371
Reported	21,676	1,417	20,259	1,557	361	261	757	1,390	583
Item responses:									
1. No School Completed.	1,800	137	1,663	1,392	200	13	16	15	4
2. Nursery School	356	21	335	74	140	109	12	0	0
3. Kindergarten	233	15	218	16	18	102	70	3	0
4. 1st, 2nd, 3rd, or 4th grade	876	74	802	13	0	34	585	103	8
5. 5th, 6th, 7th, or 8th grade	1,484	132	1,352	32	1	0	57	1,030	120
6. 9th grade	707	53	654	2	0	0	1	89	284
7. 10th grade.	1,097	86	1,011	4	1	1	4	39	101
8. 11th grade.	1,172	79	1,093	3	0	0	3	25	21
9. 12th grade, NO DIPLOMA	144	11	133	0	0	0	1	7	4
10. High School Graduate.	6,044	386	5,658	16	1	0	6	57	33
11. Some college but no degree.	3,465	244	3,221	3	0	1	2	6	4
12. Associate degree—occupational program	370	15	355	0	0	0	0	0	0
13. Associate degree —academic program	356	12	344	0	0	0	0	1	0
14. Bachelor's degree.	2,371	104	2,267	1	0	1	0	2	0
15. Master's degree	780	32	748	1	0	0	0	0	0
16. Professional school degree.	222	10	212	0	0	0	0	4	0
17. Doctorate degree	199	6	193	0	0	0	0	9	4

¹Not reported includes individual item nonresponse.

²Not reported includes individual item nonresponse, person refusals, movers, and other noninterviews (that is, persons with language barriers, persons who were ill, hospitalized, or temporarily absent, deceased, and so forth).

Table D.8. Census Question P12—How Much School Has This Person Completed?—Unedited, Total Persons: 1990 Census—Con.

Reinterview classification	Census classification—Con.										
	7	8	9	10	11	12	13	14	15	16	17
Total	1,239	1,139	756	6,452	4,037	613	533	2,541	830	308	140
Not reported ²	278	271	195	1,042	717	116	112	350	81	52	24
Reported	961	868	561	5,410	3,320	497	421	2,191	749	256	116
Item responses:											
1. No school completed	0	5	2	10	4	0	0	1	0	1	0
2. Nursery school	0	0	0	0	0	0	0	0	0	0	0
3. Kindergarten	3	3	0	2	0	0	0	1	0	0	0
4. 1st, 2nd, 3rd, or 4th grade	7	6	2	39	4	0	1	0	0	0	0
5. 5th, 6th, 7th, or 8th grade	42	16	20	27	3	3	1	0	0	0	0
6. 9th grade	208	34	14	17	3	2	0	0	0	0	0
7. 10th grade	490	249	41	70	7	3	0	1	0	0	0
8. 11th grade	133	425	163	270	38	6	1	2	1	2	0
9. 12th grade, NO DIPLOMA	2	14	15	76	12	2	0	0	0	0	0
10. High school graduate	66	101	256	4,389	621	65	15	18	2	12	0
11. Some college but no degree	8	10	40	451	2,412	138	74	56	2	14	0
12. Associate degree—occupational program	0	1	2	11	60	182	92	4	0	3	0
13. Associate degree—academic program	0	1	1	8	59	56	200	17	0	0	1
14. Bachelor's degree	1	2	5	25	77	24	32	2,032	36	26	3
15. Master's degree	0	0	0	3	5	0	3	46	681	6	3
16. Professional school degree	0	0	0	11	15	16	2	10	20	129	5
17. Doctorate degree	1	1	0	1	0	0	0	3	7	63	104

¹Not reported includes individual item nonresponse.

²Not reported includes individual item nonresponse, person refusals, movers, and other noninterviews (that is, persons with language barriers, persons who were ill, hospitalized, or temporarily absent, deceased, and so forth).

Table D.9. Census Question P9—Is This Person a Citizen of the United States?—Unedited, Total Persons: 1990 Census

Reinterview classification	Census classification							
	Total	Not reported ¹	Reported	1	2	3	4	5
Total	29,647	2,238	27,409	25,459	117	136	747	950
Not reported ²	4,698	695	4,003	3,565	26	36	133	243
Reported	24,949	1,543	23,406	21,894	91	100	614	707
Item responses:								
1. Yes, born in the United States	23,336	1,374	21,962	21,848	20	21	59	14
2. Yes, born in Puerto Rico, Guam, the U.S. Virgin Islands, or Northern Marianas	91	8	83	9	66	2	3	3
3. Yes, born abroad of American parent or parents	100	9	91	4	0	62	21	4
4. Yes, U.S. citizen by naturalization	604	51	553	19	4	11	477	42
5. No, not a citizen of the United States	818	101	717	14	1	4	54	644

¹Not reported includes individual item nonresponse.

²Not reported includes individual item nonresponse, person refusals, movers, and other noninterviews (that is, persons with language barriers, persons who were ill, hospitalized, or temporarily absent, deceased, and so forth).

Table D.10. Census Question P13—What Is This Person’s Ancestry or Ethnic Origin?—Edited: 1990 Census (Single Response Only)

Reinterview classification	Census classification												
	Total	Not reported ¹	Re-reported ³	1	2	3	4	5	6	7	8	9	10
Total	27,983	11,140	16,843	76	25	22	24	57	53	164	1,287	29	244
Not reported ²	18,444	9,114	9,330	51	5	15	20	20	28	85	793	13	164
Reported ³	9,539	2,026	7,513	25	20	7	4	37	25	79	494	16	80
Item responses:													
1. Arab	30	3	27	24	0	0	0	0	0	0	0	0	0
2. Austrian	28	6	22	0	15	0	0	0	0	0	0	0	0
3. Belgian	10	3	7	0	0	7	0	0	0	0	0	0	0
4. Canadian	21	6	15	0	0	0	0	0	0	0	2	0	0
5. Czech	59	6	53	0	0	0	0	30	0	0	0	0	0
6. Danish	31	10	21	0	0	0	0	0	20	0	1	0	0
7. Dutch	133	46	87	0	0	0	0	0	0	62	3	0	0
8. English	680	200	480	0	0	0	0	0	0	1	317	0	0
9. Finnish	15	2	13	0	0	0	0	0	0	0	0	13	0
10. French (except Basque)	183	56	127	0	0	0	1	0	0	0	3	0	60
11. French Canadian	44	8	36	0	0	0	0	0	0	0	1	0	5
12. German	1,697	355	1,342	0	1	0	0	0	1	5	22	0	6
13. Greek	28	3	25	0	0	0	0	0	0	0	0	0	0
14. Hungarian	61	9	52	0	0	0	0	0	0	0	1	0	0
15. Irish	812	207	605	0	0	0	0	0	0	0	21	1	2
16. Italian	498	68	430	0	0	0	0	0	0	0	3	0	1
17. Lithuanian	20	3	17	0	0	0	0	0	1	0	0	0	0
18. Norwegian	126	23	103	0	0	0	0	0	0	1	1	0	0
19. Polish	265	38	227	0	0	0	0	1	0	0	0	0	0
20. Portuguese	45	6	39	0	0	0	0	0	0	0	0	0	0
21. Romanian	13	0	13	0	0	0	0	0	0	0	0	0	0
22. Russian	88	23	65	0	0	0	0	0	0	0	0	0	0
23. Scotch-Irish	89	22	67	0	0	0	0	0	0	0	4	0	0
24. Scottish	142	40	102	0	0	0	0	0	0	0	5	0	0
25. Slovak	38	9	29	0	0	0	0	1	0	0	0	0	0
26. Sub-Saharan African	64	7	57	0	0	0	0	0	0	0	1	0	0
27. Swedish	95	27	68	0	0	0	0	0	1	0	1	0	0
28. Swiss	18	4	14	0	0	0	0	0	0	1	0	0	0
29. Ukrainian	24	2	22	0	1	0	0	0	0	0	0	0	0
30. United States or American	773	259	514	0	0	0	3	1	1	1	37	0	1
31. Welsh	32	9	23	0	0	0	0	0	0	0	3	0	0
32. West Indian	68	6	62	0	0	0	0	0	0	0	0	0	0
33. Yugoslavian	21	3	18	0	0	0	0	0	0	0	0	0	0
34. Race or Hispanic origin groups	2,156	229	1,927	0	0	0	0	0	0	3	9	0	0
35. Other groups	606	100	506	1	3	0	0	3	1	2	17	2	1
36. Unclassified	526	228	298	0	0	0	0	1	0	3	42	0	4

¹Not reported includes individual item nonresponse. If a respondent gave more than one ancestry, they were also included in the not reported category.

²Not reported includes individual item nonresponse, person refusals, movers, and the noninterviews (that is, persons with language barriers, persons who were ill, hospitalized, or temporarily absent, deceased, and so forth). If a respondent gave more than one ancestry, they were also included in the not reported category.

³Reported includes a single response for both census and reinterview.

Table D.10. Census Question P13—What Is This Person’s Ancestry or Ethnic Origin?—Edited: 1990 Census (Single Response Only)—Con.

Reinterview classification	Census classification—Con.													
	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Total	203	2,948	56	85	1,486	810	35	197	448	72	17	115	396	191
Not reported ²	115	1,590	31	35	902	376	17	105	219	30	6	53	298	120
Reported ³	88	1,358	25	50	584	434	18	92	229	42	11	62	98	71
Item responses:														
1. Arab	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2. Austrian	0	3	0	1	0	0	0	0	0	0	0	0	0	0
3. Belgian	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4. Canadian	10	0	0	0	0	0	0	0	0	1	0	0	0	0
5. Czech	1	1	0	0	0	0	1	0	0	0	0	0	0	0
6. Danish	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7. Dutch	0	10	0	0	2	0	0	0	1	0	0	0	0	0
8. English	1	20	0	1	27	0	0	0	1	0	0	0	6	3
9. Finnish	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10. French (except Basque)	38	3	0	0	2	3	0	0	1	0	0	0	0	0
11. French Canadian	29	0	0	0	0	0	0	0	0	0	0	0	0	0
12. German	0	1,189	0	1	13	2	0	1	3	0	0	2	3	1
13. Greek	0	0	25	0	0	0	0	0	0	0	0	0	0	0
14. Hungarian	0	1	0	47	0	0	0	0	0	0	0	0	0	0
15. Irish	2	20	0	0	436	3	0	0	1	1	0	0	25	5
16. Italian	0	2	0	0	2	412	0	0	1	0	0	1	0	0
17. Lithuanian	0	0	0	0	0	0	14	0	0	0	0	1	0	1
18. Norwegian	0	5	0	0	0	0	1	85	0	0	0	0	0	0
19. Polish	0	1	0	0	2	1	0	0	215	0	0	2	0	0
20. Portuguese	0	0	0	0	0	0	0	0	1	39	0	0	0	0
21. Romanian	0	2	0	0	0	0	0	0	0	0	10	0	0	0
22. Russian	0	3	0	0	0	0	0	0	0	0	0	43	0	0
23. Scotch-Irish	0	0	0	0	17	0	0	0	0	0	0	0	33	2
24. Scottish	0	0	0	0	10	0	0	0	0	0	0	0	19	54
25. Slovak	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26. Sub-Saharan African ..	0	0	0	0	0	1	0	0	0	0	0	0	0	0
27. Swedish	0	4	0	0	1	0	0	0	1	0	0	0	0	1
28. Swiss	0	2	0	0	0	0	0	0	0	0	0	0	0	0
29. Ukrainian	0	1	0	0	1	0	0	0	0	0	0	0	0	0
30. United States or American	3	36	0	0	39	7	0	1	1	0	0	4	5	4
31. Welsh	0	2	0	0	0	0	0	0	0	0	0	0	1	0
32. West Indian	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33. Yugoslavian	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34. Race or Hispanic origin groups	1	6	0	0	3	0	0	0	2	1	0	0	0	0
35. Other groups	0	10	0	0	2	2	2	5	1	1	1	9	1	0
36. Unclassified	3	37	0	0	27	3	0	0	0	0	0	0	5	0

¹Not reported includes individual item nonresponse. If a respondent gave more than one ancestry, they were also included in the not reported category.

²Not reported includes individual item nonresponse, person refusals, movers, and the noninterviews (that is, persons with language barriers, persons who were ill, hospitalized, or temporarily absent, deceased, and so forth). If a respondent gave more than one ancestry, they were also included in the not reported category.

³Reported includes a single response for both census and reinterview.

Table D.10. Census Question P13—What Is This Person’s Ancestry or Ethnic Origin?—Edited: 1990 Census (Single Response Only)—Con.

Reinterview classification	Census classification—Con.											
	25	26	27	28	29	30	31	32	33	34	35	36
Total.....	91	36	150	24	44	1,552	50	103	41	4,505	972	235
Not reported ²	43	14	83	12	19	978	33	40	21	2,347	485	164
Reported³.....	48	22	67	12	25	574	17	63	20	2,158	487	71
Item responses:												
1. Arab.....	0	0	0	0	0	0	0	0	0	1	2	0
2. Austrian.....	0	0	0	0	0	0	0	0	0	0	3	0
3. Belgian.....	0	0	0	0	0	0	0	0	0	0	0	0
4. Canadian.....	0	0	0	0	0	2	0	0	0	0	0	0
5. Czech.....	13	0	0	0	0	2	0	0	2	2	1	0
6. Danish.....	0	0	0	0	0	0	0	0	0	0	0	0
7. Dutch.....	0	0	0	0	0	6	0	0	0	1	0	2
8. English.....	1	0	2	0	0	56	3	1	0	13	17	10
9. Finnish.....	0	0	0	0	0	0	0	0	0	0	0	0
10. French (except Basque).....	0	0	1	0	0	7	0	0	0	6	1	1
11. French Canadian.....	0	0	0	0	0	0	0	0	0	0	1	0
12. German.....	1	0	2	1	0	50	1	0	0	13	15	9
13. Greek.....	0	0	0	0	0	0	0	0	0	0	0	0
14. Hungarian.....	1	0	0	0	0	2	0	0	0	0	0	0
15. Irish.....	0	0	0	0	0	64	0	0	0	16	5	4
16. Italian.....	0	0	0	1	0	7	0	0	0	0	0	0
17. Lithuanian.....	0	0	0	0	0	0	0	0	0	0	0	0
18. Norwegian.....	0	0	0	0	0	1	0	0	0	2	7	0
19. Polish.....	0	0	0	0	0	1	0	0	0	3	1	0
20. Portuguese.....	0	0	0	0	0	0	0	0	0	0	0	0
21. Romanian.....	0	0	0	0	0	0	0	0	0	0	0	0
22. Russian.....	2	0	0	0	6	3	0	0	0	0	8	0
23. Scotch-Irish.....	0	0	2	0	0	4	0	0	0	3	2	0
24. Scottish.....	0	0	1	0	0	8	0	0	0	4	0	1
25. Slovak.....	25	0	0	0	1	0	0	0	1	0	1	0
26. Sub-Saharan African.....	0	11	0	0	0	4	0	4	0	35	1	0
27. Swedish.....	1	0	51	0	0	2	0	0	0	2	3	0
28. Swiss.....	0	0	0	10	0	1	0	0	0	0	0	0
29. Ukrainian.....	0	0	0	0	18	0	0	0	0	0	1	0
30. United States or American.....	1	0	4	0	0	183	0	0	0	153	11	18
31. Welsh.....	0	0	0	0	0	4	11	0	0	0	2	0
32. West Indian.....	0	0	0	0	0	2	0	54	0	2	4	0
33. Yugoslavian.....	1	0	0	0	0	0	0	0	15	0	2	0
34. Race or Hispanic origin groups.....	0	11	0	0	0	59	1	3	0	1,819	6	3
35. Other groups.....	2	0	4	0	0	15	0	1	2	24	391	30
36. Unclassified.....	0	0	0	0	0	91	1	0	0	59	2	20

¹Not reported includes individual item nonresponse. If a respondent gave more than one ancestry, they were also included in the not reported category.

²Not reported includes individual item nonresponse, person refusals, movers, and the noninterviews (that is, persons with language barriers, persons who were ill, hospitalized, or temporarily absent, deceased, and so forth). If a respondent gave more than one ancestry, they were also included in the not reported category.

³Reported includes a single response for both census and reinterview.

Table D.11. Census Question P13—What Is This Person’s Ancestry or Ethnic Origin?—Edited, Total Persons: 1990 Census (STF 3 Categories, Used First Response in CRS and Census)

Reinterview classification	Census classification												
	Total	Not reported ¹	Re-reported	1	2	3	4	5	6	7	8	9	10
Total	27,983	0	27,983	96	57	34	46	94	112	424	2,526	46	732
Not reported ²	11,711	0	11,711	51	18	19	21	27	35	156	970	12	308
Reported	16,272	0	16,272	45	39	15	25	67	77	268	1,556	34	424
Item responses:													
1. Arab	42	0	42	29	0	0	0	0	0	0	1	0	0
2. Austrian	44	0	44	0	22	0	0	0	0	0	0	0	0
3. Belgian	20	0	20	0	0	13	0	0	0	0	0	0	0
4. Canadian	42	0	42	0	0	0	6	0	0	0	3	0	5
5. Czech	96	0	96	0	1	0	0	42	0	1	1	0	0
6. Danish	73	0	73	0	0	0	0	0	44	1	7	0	0
7. Dutch	312	0	312	0	0	0	0	0	1	146	24	0	5
8. English	1570	0	1,570	0	0	0	4	1	5	16	861	2	25
9. Finnish	25	0	25	0	0	0	0	0	0	0	0	23	0
10. French (except Basque)	566	0	566	0	0	0	1	1	0	2	42	0	238
11. French Canadian	71	0	71	0	0	0	1	0	1	1	3	0	11
12. German	3,535	0	3,535	1	3	1	2	13	9	41	163	1	39
13. Greek	42	0	42	0	0	0	1	0	0	0	1	0	0
14. Hungarian	111	0	111	0	1	0	0	0	1	0	4	0	0
15. Irish	1,830	0	1,830	2	1	1	1	1	3	15	118	1	43
16. Italian	830	0	830	0	0	0	0	0	1	1	12	0	9
17. Lithuanian	29	0	29	0	0	0	0	0	1	0	1	0	2
18. Norwegian	263	0	263	0	0	0	0	0	2	3	6	1	4
19. Polish	469	0	469	2	1	0	0	1	0	0	8	1	4
20. Portuguese	57	0	57	0	0	0	0	0	0	1	0	0	1
21. Romanian	18	0	18	0	0	0	0	0	0	0	0	0	0
22. Russian	161	0	161	1	1	0	0	0	0	1	4	0	0
23. Scotch-Irish	148	0	148	0	0	0	0	0	0	1	11	0	1
24. Scottish	589	0	589	1	0	0	1	1	0	7	77	0	2
25. Slovak	60	0	60	0	0	0	0	2	0	0	2	0	0
26. Sub-Saharan African	71	0	71	0	0	0	0	0	0	0	2	0	0
27. Swedish	227	0	227	1	0	0	0	0	2	2	10	3	2
28. Swiss	53	0	53	0	0	0	0	0	0	1	2	0	1
29. Ukrainian	35	0	35	0	1	0	0	0	1	0	0	0	0
30. United States or American	824	0	824	1	1	0	5	1	2	6	56	0	7
31. Welsh	74	0	74	0	0	0	0	0	0	1	13	0	0
32. West Indian	73	0	73	0	0	0	0	0	0	0	0	0	0
33. Yugoslavian	40	0	40	0	0	0	0	0	0	1	0	0	0
34. Race or Hispanic origin groups	2,518	0	2,518	4	0	0	1	0	0	7	36	0	10
35. Other groups	815	0	815	3	7	0	2	3	4	7	33	2	8
36. Unclassified	539	0	539	0	0	0	0	1	0	6	55	0	7

¹Not reported includes individual item nonresponse. This item is not allocated, however, it is edited. Not reported responses were put into the “unclassified” category.
²Not reported includes individual item nonresponse, person refusals, movers, and other noninterviews (that is, persons with language barriers, persons who were ill, hospitalized, or temporarily absent, deceased, and so forth).

Table D.11. Census Question P13—What Is This Person’s Ancestry or Ethnic Origin?—Edited, Total Persons: 1990 Census (STF 3 Categories Used First Response in CRS and Census)—Con.

Reinterview classification	Census classification—Con.											
	11	12	13	14	15	16	17	18	19	20	21	22
Total	269	5,816	80	149	2,745	1,293	49	374	789	84	30	192
Not reported ²	119	2,300	40	51	1,144	501	20	133	314	31	9	56
Reported	150	3,516	40	98	1,601	792	29	241	475	53	21	136
Item responses:												
1. Arab	0	1	0	0	0	3	0	0	0	0	0	1
2. Austrian	0	5	0	2	0	0	0	0	2	0	2	1
3. Belgian	1	0	0	0	0	0	0	0	0	0	0	0
4. Canadian	12	3	0	0	1	0	0	0	0	1	0	1
5. Czech	2	10	0	0	3	1	1	0	1	1	0	0
6. Danish	0	5	0	0	1	0	2	0	0	0	0	0
7. Dutch	0	47	0	0	21	0	0	1	2	0	0	0
8. English	7	160	1	2	100	12	0	4	7	1	0	3
9. Finnish	0	2	0	0	0	0	0	0	0	0	0	0
10. French (except Basque)	62	49	0	2	36	10	0	3	7	0	0	1
11. French Canadian	38	3	0	0	2	0	0	0	0	1	0	0
12. German	5	2,550	1	4	124	35	1	28	28	0	1	7
13. Greek	0	1	36	1	0	0	0	0	1	0	0	0
14. Hungarian	0	8	0	80	2	1	0	0	4	0	0	0
15. Irish	6	190	1	3	990	18	0	4	12	90	0	0
16. Italian	1	47	0	0	31	659	0	0	9	0	0	2
17. Lithuanian	0	1	0	0	0	1	19	0	0	0	0	1
18. Norwegian	1	28	0	0	7	0	1	173	0	0	0	0
19. Polish	2	20	1	0	12	9	1	2	356	0	0	12
20. Portuguese	0	3	0	0	1	2	0	0	0	46	0	0
21. Romanian	0	3	0	0	0	0	0	0	1	0	13	0
22. Russian	1	13	0	1	1	1	0	0	6	0	2	86
23. Scotch-Irish	0	10	0	0	32	1	0	1	0	0	0	0
24. Scottish	1	66	0	0	54	2	0	3	2	0	0	0
25. Slovak	0	2	0	0	0	1	0	0	2	0	0	0
26. Sub-Saharan African	0	0	0	0	0	1	0	0	0	0	0	0
27. Swedish	0	24	0	0	6	0	1	5	2	0	0	1
28. Swiss	0	17	0	0	3	0	0	0	0	0	0	0
29. Ukrainian	0	2	0	0	2	0	0	0	4	0	0	0
30. United States or American	6	81	0	0	62	14	0	3	6	1	0	6
31. Welsh	0	5	0	0	2	1	0	0	1	0	0	0
32. West Indian	0	1	0	0	0	0	0	0	0	0	0	0
33. Yugoslavian	0	3	0	0	0	1	0	0	0	0	0	0
34. Race or Hispanic origin groups	2	44	0	0	47	9	0	1	3	1	0	0
35. Other groups	0	48	0	3	14	4	3	13	14	1	3	14
36. Unclassified	3	64	0	0	47	6	0	0	5	0	0	0

¹Not reported includes individual item nonresponse. This item is not allocated, however, it is edited. Not reported responses were put into the “unclassified” category.

²Not reported includes individual item nonresponse, person refusals, movers, and other noninterviews (that is, persons with language barriers, persons who were ill, hospitalized, or temporarily absent, deceased, and so forth).

Table D.11. Census Question P13—What Is This Person’s or Ethnic Origin?—Edited, Total Persons: 1990 Census (STF 3 Categories, Used First Response in CRS and Census)—Con.

Reinterview classification	Census classification—Con.													
	23	24	25	26	27	28	29	30	31	32	33	34	35	36
Total	595	408	134	37	345	81	63	1,552	128	107	54	4,882	1,131	2,429
Not reported ²	215	151	44	14	143	26	23	725	49	37	21	2,234	463	1,231
Reported	380	257	90	23	202	55	40	827	79	70	33	2,648	668	1,198
Item responses:														
1. Arab	2	0	0	0	0	0	0	0	0	0	0	1	3	1
2. Austrian	0	0	0	0	0	0	0	1	0	0	0	0	4	5
3. Belgian	0	0	0	0	0	0	0	0	0	0	0	0	2	4
4. Canadian	0	1	0	0	0	0	0	3	0	0	0	2	1	3
5. Czech	0	2	16	0	1	2	0	2	0	0	2	3	3	1
6. Danish	0	1	0	0	2	0	0	2	2	0	0	2	1	3
7. Dutch	8	2	0	0	0	0	0	18	0	0	0	2	5	30
8. English	29	30	2	0	10	4	0	90	14	1	0	32	40	107
9. Finnish	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10. French (except Basque)	3	3	0	0	3	3	0	18	3	1	0	24	4	50
11. French Canadian	0	1	0	0	0	0	0	2	0	0	0	3	2	2
12. German	19	26	3	0	13	9	0	111	7	0	0	49	30	211
13. Greek	0	0	0	0	0	0	0	0	0	0	0	1	0	0
14. Hungarian	0	0	2	0	0	0	0	2	0	0	0	1	2	3
15. Irish	74	15	1	0	8	4	2	105	8	0	0	63	11	129
16. Italian	0	3	4	0	3	3	0	17	1	0	0	8	2	17
17. Lithuanian	0	1	0	0	0	0	0	0	1	0	0	0	0	1
18. Norwegian	1	2	0	0	4	0	0	5	0	0	0	3	18	4
19. Polish	1	1	3	0	0	0	2	5	0	0	0	8	5	12
20. Portuguese	0	0	0	0	0	0	0	1	0	0	0	0	0	2
21. Romanian	0	0	0	0	0	0	0	0	0	0	0	0	1	0
22. Russian	0	0	3	0	0	0	7	5	0	0	0	4	13	11
23. Scotch-Irish	64	6	0	0	5	0	0	7	1	0	0	3	2	3
24. Scottish	147	150	1	0	3	1	0	26	1	0	0	15	2	26
25. Slovak	0	0	41	0	0	0	2	0	0	0	2	1	2	3
26. Sub-Saharan African	0	0	0	12	0	0	0	4	0	4	0	41	1	6
27. Swedish	1	2	2	0	132	3	1	5	1	0	0	4	7	10
28. Swiss	0	0	0	0	0	25	0	1	0	0	0	0	1	2
29. Ukrainian	0	0	0	0	0	0	23	0	0	0	0	0	1	1
30. United States or American	12	5	3	0	8	0	0	186	1	0	0	177	13	161
31. Welsh	4	0	0	0	0	0	0	9	34	0	0	1	2	1
32. West Indian	0	0	0	0	0	0	0	2	0	57	0	5	4	4
33. Yugoslavian	0	0	6	0	0	0	0	1	0	0	24	0	4	0
34. Race or Hispanic origin groups	6	4	0	11	0	0	1	80	3	4	1	2,068	9	166
35. Other groups	2	0	3	0	9	1	2	24	0	3	4	57	470	54
36. Unclassified	7	2	0	0	1	0	0	95	2	0	0	70	3	165

¹Not reported includes individual item nonresponse. This item is not allocated, however, it is edited. Not reported responses were put into the “unclassified” category.
²Not reported includes individual item nonresponse, person refusals, movers, and other noninterviews (that is, persons with language barriers, persons who were ill, hospitalized, or temporarily absent, deceased, and so forth).

Table D.12. Census Question P13—What Is This Person’s Ancestry or Ethnic Origin?—Edited, Total Persons: 1990 Census (34 Largest Categories, Used First Response in CRS and Census)

Reinterview classification	Census classification											
	Total	Not reported ¹	Reported	1	2	3	4	5	6	7	8	9
Total	27,983	0	27983	5,816	2,742	2,526	2,381	1,293	1,551	992	732	789
Not reported ²	11,711	0	11,711	2,300	1,143	970	1,063	501	725	468	308	314
Reported	16,272	0	16,272	3,516	1,599	1,556	1,318	792	826	524	424	475
Item responses:												
1. German	3,535	0	3,535	2,550	124	163	5	35	111	3	39	28
2. Irish	1,830	0	1,830	190	989	118	1	18	105	3	43	12
3. English	1,570	0	1,570	160	100	861	4	12	89	3	25	7
4. Afro-American	1,216	0	1,216	3	1	3	1,059	0	34	1	2	0
5. Italian	830	0	830	47	31	12	0	659	17	0	9	9
6. American	822	0	822	81	61	56	114	14	186	9	7	6
7. Mexican	539	0	539	4	1	2	3	3	2	441	1	0
8. French	565	0	565	48	36	42	2	10	18	4	238	7
9. Polish	469	0	469	20	12	8	3	9	5	0	4	356
10. American Indian	305	0	305	30	38	21	17	2	40	6	4	1
11. Dutch	312	0	312	47	21	24	0	0	18	0	5	2
12. Scotch Irish	148	0	148	10	32	11	0	1	7	0	1	0
13. Scottish	589	0	589	66	53	77	0	2	26	1	2	2
14. Swedish	227	0	227	24	6	10	1	0	5	0	2	2
15. Norwegian	263	0	263	28	7	6	0	0	5	0	4	0
16. Russian	161	0	161	13	1	4	0	1	5	0	0	6
17. French Canadian	55	0	55	2	1	3	0	0	2	0	11	0
18. Welsh	74	0	74	5	2	13	0	1	9	0	0	1
19. Spanish	31	0	31	0	0	0	0	0	0	10	1	0
20. Puerto Rican	88	0	88	0	1	0	1	1	0	1	0	0
21. Slovak	60	0	60	2	0	2	1	1	0	0	0	2
22. White	29	0	29	3	0	7	0	0	1	0	0	1
23. Danish	73	0	73	5	1	7	0	0	2	1	0	0
24. Hungarian	111	0	111	8	2	4	0	1	2	0	0	4
25. Chinese	82	0	82	0	0	0	0	0	0	0	0	0
26. Filipino	74	0	74	0	0	1	0	0	0	5	0	1
27. Czech	96	0	96	10	3	1	0	1	2	0	0	1
28. Portuguese	57	0	57	3	1	0	0	2	1	0	1	0
29. British	48	0	48	4	4	12	0	0	2	0	3	0
30. Hispanic	25	0	25	1	0	0	0	0	0	4	0	0
31. Greek	42	0	42	1	0	1	1	0	0	0	0	1
32. Swiss	53	0	53	17	3	2	0	0	1	0	1	0
33. Japanese	55	0	55	0	0	0	0	1	0	0	0	0
34. Other	1,838	0	1,838	134	68	85	106	18	131	32	21	26

¹Not reported includes individual item nonresponse. This item is not allocated, however, it is edited. Not reported responses were put into the "other" category.

²Not reported includes individual item nonresponse, person refusals, movers, and other noninterviews (that is, persons with language barriers, persons who were ill, hospitalized, or temporarily absent, deceased, and so forth).

Table D.12. Census Question P13—What Is This Person’s Ancestry or Ethnic Origin?—Edited, Total Persons: 1990 Census (34 Largest Categories, Used First Response in CRS and Census)—Con.

Reinterview classification	Census classification—Con.												
	10	11	12	13	14	15	16	17	18	19	20	21	22
Total	505	424	595	408	345	374	192	200	128	26	157	134	238
Not reported ²	234	156	215	151	143	133	56	85	49	10	69	44	121
Reported	271	268	380	257	202	241	136	115	79	16	88	90	117
Item responses:													
1. German	26	41	19	26	13	28	7	4	7	1	0	3	11
2. Irish	38	15	74	15	8	4	0	4	8	0	1	1	19
3. English	6	16	29	30	10	4	3	7	14	0	0	2	15
4. Afro-American	6	2	0	0	0	0	0	0	0	0	1	0	0
5. Italian	2	1	0	3	3	0	2	1	1	0	1	4	1
6. American	25	6	12	5	8	3	6	4	1	0	1	3	20
7. Mexican	1	0	0	2	0	0	0	0	0	2	2	0	0
8. French	8	2	3	3	3	3	1	48	3	0	0	0	8
9. Polish	0	0	1	1	0	2	12	2	0	0	0	3	4
10. American Indian	94	3	4	2	0	1	0	1	1	0	0	0	6
11. Dutch	1	146	8	2	0	1	0	0	0	0	0	0	1
12. Scotch Irish	0	1	64	6	5	1	0	0	1	0	0	0	3
13. Scottish	7	7	147	150	3	3	0	0	1	0	0	1	6
14. Swedish	1	2	1	2	132	5	1	0	1	0	0	2	2
15. Norwegian	2	3	1	2	4	173	0	1	0	0	0	0	1
16. Russian	1	1	0	0	0	0	86	1	0	0	0	3	3
17. French Canadian	2	1	0	1	0	0	0	25	0	0	0	0	1
18. Welsh	1	1	4	0	0	0	0	0	34	0	0	0	0
19. Spanish	0	0	0	0	0	0	0	0	1	5	1	0	0
20. Puerto Rican	0	0	0	0	0	0	0	0	0	0	65	0	0
21. Slovak	0	0	0	0	0	0	0	0	0	0	0	41	0
22. White	1	1	1	0	0	0	0	0	1	0	0	0	9
23. Danish	0	1	0	1	2	0	0	0	2	0	0	0	1
24. Hungarian	0	0	0	0	0	0	0	0	0	0	0	2	1
25. Chinese	0	0	0	0	0	0	0	0	0	0	0	0	0
26. Filipino	0	0	0	0	0	0	0	0	0	0	0	0	0
27. Czech	1	1	0	2	1	0	0	2	0	0	0	16	2
28. Portuguese	0	1	0	0	0	0	0	0	0	0	0	0	0
29. British	0	0	1	0	0	0	0	0	0	0	0	0	1
30. Hispanic	0	0	0	0	0	0	0	0	0	0	5	0	0
31. Greek	0	0	0	0	0	0	0	0	0	0	0	0	0
32. Swiss	0	1	0	0	0	0	0	0	0	0	0	0	0
33. Japanese	0	0	0	0	0	0	0	0	0	0	0	0	0
34. Other	48	15	11	4	10	13	18	15	3	8	11	9	2

¹Not reported includes individual item nonresponse. This item is not allocated, however, it is edited. Not reported responses were put into the "other" category.

²Not reported includes individual item nonresponse, person refusals, movers, and other noninterviews (that is, persons with language barriers, persons who were ill, hospitalized, or temporarily absent, deceased, and so forth).

Table D.12. Census Question P13—What Is This Person’s Ancestry or Ethnic Origin?—Edited, Total Persons: 1990 Census (34 Largest Categories, Used First Response in CRS and Census)—Con.

Reinterview classification	Census classification—Con.											
	23	24	25	26	27	28	29	30	31	32	33	34
Total	112	149	113	141	94	84	94	83	80	81	88	4,316
Not reported ²	35	51	50	67	27	31	37	36	40	26	30	2,023
Reported	77	98	63	74	67	53	57	47	40	55	58	2,293
Item responses:												
1. German	9	4	0	0	13	0	5	0	1	9	0	250
2. Irish	3	3	0	0	1	0	1	0	1	4	0	151
3. English	5	2	0	2	1	1	18	2	1	4	0	137
4. Afro-American	0	0	0	0	0	0	2	0	0	0	0	102
5. Italian	1	0	0	0	0	0	0	0	0	3	0	23
6. American	2	0	0	0	1	1	2	1	0	0	0	187
7. Mexican	0	0	0	0	0	0	0	18	0	0	0	57
8. French	0	2	0	0	1	0	1	1	0	3	0	70
9. Polish	0	0	0	1	1	0	0	1	1	0	0	23
10. American Indian	0	0	0	0	0	0	0	0	0	0	0	34
11. Dutch	1	0	0	1	0	0	0	0	0	0	0	34
12. Scotch Irish	0	0	0	0	0	0	1	0	0	0	0	4
13. Scottish	0	0	0	0	1	0	2	0	0	1	0	31
14. Swedish	2	0	0	0	0	0	0	0	0	3	0	21
15. Norwegian	2	0	1	0	0	0	1	0	0	0	0	22
16. Russian	0	1	0	0	0	0	0	0	0	0	0	35
17. French Canadian	1	0	0	0	0	0	0	0	0	0	0	5
18. Welsh	0	0	0	0	0	0	1	0	0	0	0	2
19. Spanish	0	0	0	0	0	0	0	0	0	0	0	13
20. Puerto Rican	0	0	0	0	0	0	0	6	0	0	0	13
21. Slovak	0	0	0	0	2	0	0	0	0	0	0	9
22. White	0	0	0	0	0	0	2	0	0	0	0	2
23. Danish	44	0	0	0	0	0	0	0	0	0	0	6
24. Hungarian	1	80	0	0	0	0	0	0	0	0	0	6
25. Chinese	0	0	55	0	1	0	0	0	0	0	1	25
26. Filipino	0	0	0	61	0	0	0	0	0	0	1	5
27. Czech	0	0	0	0	42	1	0	0	0	2	0	8
28. Portuguese	0	0	0	0	0	46	0	0	0	0	0	2
29. British	0	0	0	0	0	0	19	0	0	0	0	2
30. Hispanic	0	0	0	0	0	0	0	4	0	0	0	11
31. Greek	0	1	0	0	0	0	0	0	36	0	0	1
32. Swiss	0	0	0	0	0	0	0	0	0	25	0	3
33. Japanese	0	0	0	0	0	0	0	0	0	0	52	2
34. Other	6	5	5	9	3	4	2	14	0	1	4	997

¹Not reported includes individual item nonresponse. This item is not allocated, however, it is edited. Not reported responses were put into the "other" category.

²Not reported includes individual item nonresponse, person refusals, movers, and other noninterviews (that is, persons with language barriers, persons who were ill, hospitalized, or temporarily absent, deceased, and so forth).

Table D.13. Census Question P15A—Does This Person Speak a Language Other Than English at Home?—Unedited, Total Persons: 1990 Census

Reinterview classification	Census classification				
	Total	Not reported ¹	Reported	1	2
Total	29,647	3,804	25,843	2,834	23,009
Not reported ²	6,236	2,145	4,091	628	3,463
Reported	23,411	1,659	21,752	2,206	19,546
Item responses:					
1. Yes	2,472	269	2,203	1,672	531
2. No	20,939	1,390	19,549	534	19,015

¹Not reported includes individual item nonresponse.

²Not reported includes individual item nonresponse, person refusals, movers, and other noninterviews (that is, persons with language barriers, persons who were ill, hospitalized, or temporarily absent, deceased, and so forth).

Table D.14. Census Question P15C—How Well Does This Person Speak English?—Unedited: 1990 Census

Reinterview classification	Census classification						
	Total	Not reported ¹	Reported	1	2	3	4
Total	29,647	22,192	7,455	5,561	1,267	440	187
Not reported ²	27,170	21,549	5,621	4,548	798	193	82
Reported	2,477	643	1,834	1,013	469	247	105
Item responses:							
1. Very well	1,434	461	973	759	169	38	7
2. Well	533	93	440	202	199	39	0
3. Not well	359	58	301	46	88	130	37
4. Not at all	151	31	120	6	13	40	61

¹Not reported includes individual item nonresponse. This question was asked of only persons who speak a language other than English at home.

²Not reported includes individual item nonresponse, person refusals, movers, and other noninterviews (that is, persons with language barriers, persons who were ill, hospitalized, or temporarily absent, deceased, and so forth). This question was asked of only persons who speak a language other than English at home.

Table D.15. Census Question P15B—What Is This Language?—Edited: 1990 Census

Reinterview classification	Census classification										
	Total	Not reported ¹	Reported	1	2	3	4	5	6	7	8
Total	27,983	25,070	2,913	197	16	16	26	54	133	191	49
Not reported ²	26,323	24,671	1,652	134	15	10	16	32	81	118	30
Reported	1,660	399	1,261	63	1	6	10	22	52	73	19
Item responses:											
1. German	113	51	62	58	0	0	0	0	1	0	0
2. Yiddish	18	16	2	0	1	0	0	0	0	0	0
3. Scandinavian	14	8	6	0	0	6	0	0	0	0	0
4. Greek	15	5	10	0	0	0	9	0	0	0	0
5. Indic	18	0	18	0	0	0	0	18	0	0	0
6. Italian	78	27	51	1	0	0	1	0	49	0	0
7. French	155	74	81	1	0	0	0	0	2	72	0
8. Portuguese	24	6	18	0	0	0	0	0	0	0	18
9. Spanish	788	129	659	1	0	0	0	0	0	1	1
10. Polish	52	19	33	0	0	0	0	0	0	0	0
11. Russian	12	4	8	0	0	0	0	0	0	0	0
12. Slavic	29	10	19	0	0	0	0	0	0	0	0
13. Other Indo-European languages ..	34	5	29	2	0	0	0	0	0	0	0
14. Arabic	20	2	18	0	0	0	0	0	0	0	0
15. Tagalog	46	6	40	0	0	0	0	0	0	0	0
16. Chinese	66	2	64	0	0	0	0	0	0	0	0
17. Hungarian	21	3	18	0	0	0	0	0	0	0	0
18. Japanese	21	5	16	0	0	0	0	0	0	0	0
19. MonKhmer	10	0	10	0	0	0	0	0	0	0	0
20. Korean	35	1	34	0	0	0	0	0	0	0	0
21. American Indian languages	8	5	3	0	0	0	0	0	0	0	0
22. Vietnamese	11	0	11	0	0	0	0	0	0	0	0
23. Other languages	72	21	51	0	0	0	0	4	0	0	0

¹Not reported includes individual item nonresponse. This was asked of only respondents who said they spoke a language other than English at home.

²Not reported includes individual item nonresponse, person refusals, movers, and other noninterviews (that is, persons with language barriers, persons who were ill, hospitalized, or temporarily absent, deceased, and so forth). This was asked of only respondents who said they spoke a language other than English at home.

Table D.15. Census Question P15B—What Is This Language?—Edited: 1990 Census—Con.

Reinterview classification	Census classification—Con.															
	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
Total	1,501	71	20	46	62	45	82	117	38	37	13	65	21	25	88	
Not reported ²	834	39	12	26	32	29	43	51	17	20	1	31	18	14	49	
Reported	667	32	8	20	30	16	39	66	21	17	12	34	3	11	39	
Item responses:																
1. German	1	0	0	1	0	0	0	0	1	0	0	0	0	0	0	
2. Yiddish	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
3. Scandinavian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4. Greek	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	
5. Indic	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6. Italian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7. French	3	0	0	0	1	0	0	0	0	0	2	0	0	0	0	
8. Portuguese	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9. Spanish	656	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10. Polish	0	32	0	1	0	0	0	0	0	0	0	0	0	0	0	
11. Russian	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	
12. Slavic	0	0	0	17	1	0	0	0	1	0	0	0	0	0	0	
13. Other Indo-European languages	0	0	0	0	27	0	0	0	0	0	0	0	0	0	0	
14. Arabic	2	0	0	0	0	16	0	0	0	0	0	0	0	0	0	
15. Tagalog	1	0	0	0	0	0	35	3	0	0	0	0	0	0	1	
16. Chinese	0	0	0	1	0	0	0	63	0	0	0	0	0	0	0	
17. Hungarian	0	0	0	0	0	0	0	0	18	0	0	0	0	0	0	
18. Japanese	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	
19. MonKhmer	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	
20. Korean	0	0	0	0	0	0	0	0	0	0	0	34	0	0	0	
21. American Indian languages	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	
22. Vietnamese	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0	
23. Other languages	4	0	0	0	0	0	4	0	0	1	0	0	0	0	38	

¹Not reported includes individual item nonresponse. This was asked of only respondents who said they spoke a language other than English at home.

²Not reported includes individual item nonresponse, person refusals, movers, and other noninterviews (that is, persons with language barriers, persons who were ill, hospitalized, or temporarily absent, deceased, and so forth). This was asked of only respondents who said they spoke a language other than English at home.

Table D.16. Census Question P17A—Has This Person Ever Been on Active-Duty Military Service in the Armed Forces of the United States or Ever Been in the United States Military Reserves or the National Guard?—Unedited: 1990 Census

Reinterview classification	Census classification						
	Total	Not reported ¹	Reported	1	2	3	4
Total	29,647	7,157	22,490	239	3,150	381	18,720
Not reported ²	9,897	5,771	4,126	50	483	55	3,538
Reported	19,750	1,386	18,364	189	2,667	326	15,182
Item responses:							
1. Yes, now on active duty	99	3	96	93	1	2	0
2. Yes, on active duty in past, but not now	2,930	172	2,758	77	2,521	65	95
3. Yes, service in Reserves or National Guard only	366	20	346	5	51	245	45
4. No	16,355	1,191	15,164	14	94	14	15,042

¹Not reported includes individual item nonresponse. This question was asked of only persons 15 years or older.

²Not reported includes individual item nonresponse, person refusals, movers, and other noninterviews (that is, persons with language barriers, persons who were ill, hospitalized, or temporarily absent, deceased, and so forth). This question was asked of only persons 15 years or older.

Table D.17. Census Question P17B1—Was Active-Duty Military Service During September 1980 or Later?—Unedited: 1990 Census

Reinterview classification	Census classification				
	Total	Not reported ¹	Reported ²	1	2
Total	29,647	26,497	3,150	218	2,932
Not reported ³	27,220	26,186	1,034	90	944
Reported	2,427	311	2,116	128	1,988
Item responses:					
1. Yes	216	55	161	120	41
2. No	2,211	256	1,955	8	1,947

¹Not reported includes individual item nonresponse. This includes current military personnel and all civilians with no military service.

²This question was asked of only persons reporting active-duty military service in the past, but not now; that is, civilian veterans.

³Not reported includes individual item nonresponse, person refusals, movers, and other noninterviews (that is, persons with language barriers, persons who were ill, hospitalized, or temporarily absent, deceased, and so forth). This includes current military personnel and all civilians with no military service.

Table D.18. Census Question P17B2—Was Active-Duty Military Service During May 1975 to August 1980?—Unedited: 1990 Census

Reinterview classification	Census classification				
	Total	Not reported ¹	Reported ²	1	2
Total	29,647	26,497	3,150	227	2,923
Not reported ³	27,220	26,186	1,034	76	958
Reported	2,427	311	2,116	151	1,965
Item responses:					
1. Yes	261	34	227	146	81
2. No	2,166	277	1,889	5	1,884

¹Not reported includes individual item nonresponse. This includes current military personnel and all civilians with no military service.

²This question was asked of only persons reporting active-duty military service in the past, but not now; that is, civilian veterans.

³Not reported includes individual item nonresponse, person refusals, movers, and other noninterviews (that is, persons with language barriers, persons who were ill, hospitalized, or temporarily absent, deceased, and so forth). This includes current military personnel and all civilians with no military service.

Table D.19. Census Question P17B3—Was Active-Duty Military Service During Vietnam Era (August 1964 to April 1975)—Unedited: 1990 Census

Reinterview classification	Census classification				
	Total	Not reported ¹	Reported ²	1	2
Total	29,647	26,497	3,150	967	2,183
Not reported ³	27,220	26,186	1,034	288	746
Reported	2,427	311	2,116	679	1,437
Item responses:					
1. Yes	825	104	721	665	56
2. No	1,602	207	1,395	14	1,381

¹Not reported includes individual item nonresponse. This includes current military personnel and all civilians with no military service.

²This question was asked of only persons reporting active-duty military service in the past, but not now; that is, civilian veterans.

³Not reported includes individual item nonresponse, person refusals, movers, and other noninterviews (that is, persons with language barriers, persons who were ill, hospitalized, or temporarily absent, deceased, and so forth). This includes current military personnel and all civilians with no military service.

Table D.20. Census Question P17B4—Was Active-Duty Military Service During February 1955 to July 1964?—Unedited: 1990 Census

Reinterview classification	Census classification				
	Total	Not reported ¹	Reported ²	1	2
Total	29,647	26,497	3,150	499	2,651
Not reported ³	27,220	26,186	1,034	140	894
Reported	2,427	311	2,116	359	1,757
Item responses:					
1. Yes	685	74	611	353	258
2. No	1,742	237	1,505	6	1,499

¹Not reported includes individual item nonresponse. This includes current military personnel and all civilians with no military service.

²This question was asked of only persons reporting active-duty military service in the past, but not now; that is, civilian veterans.

³Not reported includes individual item nonresponse, person refusals, movers, and other noninterviews (that is, persons with language barriers, persons who were ill, hospitalized, or temporarily absent, deceased, and so forth). This includes current military personnel and all civilians with no military service.

Table D.21. Census Question P17B5—Was Active-Duty Military Service During the Korean Conflict (June 1950 to January 1955)?—Unedited: 1990 Census

Reinterview classification	Census classification				
	Total	Not reported ¹	Reported ²	1	2
Total	29,647	26,497	3,150	603	2,547
Not reported ³	27,220	26,186	1,034	177	857
Reported	2,427	311	2,116	426	1,690
Item responses:					
1. Yes	504	53	451	410	41
2. No	1,923	258	1,665	16	1,649

¹Not reported includes individual item nonresponse. This includes current military personnel and all civilians with no military service.

²This question was asked of only persons reporting active-duty military service in the past, but not now; that is, civilian veterans.

³Not reported includes individual item nonresponse, person refusals, movers, and other noninterviews (that is, persons with language barriers, persons who were ill, hospitalized, or temporarily absent, deceased, and so forth). This includes current military personnel and all civilians with no military service.

Table D.22. Census Question P17B6—Was Active-Duty Military Service During World War II (September 1940 to July 1947)?—Unedited: 1990 Census

Reinterview census	Census classification				
	Total	Not reported ¹	Reported ²	1	2
Total	29,647	26,497	3,150	1,109	2,041
Not reported ³	27,220	26,186	1,034	359	675
Reported	2,427	311	2,116	750	1,366
Item responses:					
1. Yes	851	88	763	740	23
2. No	1,576	223	1,353	10	1,343

¹Not reported includes individual item nonresponse. This includes current military personnel and all civilians with no military service.

²This question was asked of only persons reporting active-duty military service in the past, but not now; that is, civilian veterans.

³Not reported includes individual item nonresponse, person refusals, movers, and other noninterviews (that is, persons with language barriers, persons who were ill, hospitalized, or temporarily absent, deceased, and so forth). This includes current military personnel and all civilians with no military service.

Table D.23. Census Question P17B7—Was Active-Duty Military Service During World War I (April 1917 to November 1918)?—Unedited: 1990 Census

Reinterview classification	Census classification				
	Total	Not reported ¹	Reported ²	1	2
Total	29,647	26,497	3,150	9	3,141
Not reported ³	27,220	26,186	1,034	8	1,026
Reported	2,427	311	2,116	1	2,115
Item responses:					
1. Yes	15	0	15	1	14
2. No	2,412	311	2,101	0	2,101

¹Not reported includes individual item nonresponse. This includes current military personnel and all civilians with no military service.

²This question was asked of only persons reporting active-duty military service in the past, but not now; that is, civilian veterans.

³Not reported includes individual item nonresponse, person refusals, movers, and other noninterviews (that is, persons with language barriers, persons who were ill, hospitalized, or temporarily absent, deceased, and so forth). This includes current military personnel and all civilians with no military service.

Table D.24. Census Question P17B8—Was Active-Duty Military Service During Any Other Time?—Unedited: 1990 Census

Reinterview classification	Census classification				
	Total	Not reported ¹	Reported ²	1	2
Total	29,647	26,497	3,150	57	3,093
Not reported ³	27,220	26,186	1,034	29	1,005
Reported	2,427	311	2,116	28	2,088
Item responses:					
1. Yes	225	16	209	10	199
2. No	2,202	295	1,907	18	1,889

¹Not reported includes individual item nonresponse. This includes current military personnel and all civilians with no military service.

²This question was asked of only persons reporting active-duty military service in the past, but not now; that is, civilian veterans.

³Not reported includes individual item nonresponse, person refusals, movers, and other noninterviews (that is, persons with language barriers, persons who were ill, hospitalized, or temporarily absent, deceased, and so forth). This includes current military personnel and all civilians with no military service.

Table D.25a. Census Question P17C—In Total, How Many Years of Active-Duty Military Service Has This Person Had?—Edited: 1990 Census

Reinterview classification	Census classification											
	Total	Not reported ¹	Re-reported ²	1	2	3	4	5	6	7	8	9
Total	27,983	24,486	3,497	295	950	840	764	141	136	40	41	30
Not reported ³	26,591	24,437	2,154	218	604	522	449	87	85	24	19	16
Reported	1,392	49	1,343	77	346	318	315	54	51	16	22	14
Item responses:												
1. 1 year	90	6	84	36	33	7	3	1	2	0	0	1
2. 2 years	345	15	330	22	244	39	17	1	3	0	2	0
3. 3 years	316	11	305	12	37	206	41	4	3	1	1	0
4. 4 years	306	6	300	4	15	41	222	10	6	0	0	1
5. 5 years	67	1	66	2	3	7	19	24	5	2	2	1
6. 6 years	52	3	49	0	2	8	5	5	25	2	0	2
7. 7 years	17	0	17	0	0	1	1	3	2	7	3	0
8. 8 years	25	2	23	0	2	0	2	2	0	4	9	2
9. 9 years	9	0	9	1	0	2	0	0	1	0	2	3
10. 10 years	14	0	14	0	0	0	0	1	0	0	2	4
11. 11 years	8	0	8	0	0	0	0	1	0	0	0	0
12. 12 years	8	0	8	0	2	1	0	0	0	0	0	0
13. 13 years	5	0	5	0	0	1	0	0	0	0	0	0
14. 14 years	5	0	5	0	0	0	1	0	0	0	0	0
15. 15 years	4	1	3	0	0	0	0	0	0	0	0	0
16. 16 years	5	0	5	0	0	0	0	0	0	0	0	0
17. 17 years	2	0	2	0	0	0	0	0	0	0	0	0
18. 18 years	2	0	2	0	0	0	0	0	0	0	0	0
19. 19 years	7	0	7	0	0	0	1	0	1	0	0	0
20. 20 years	34	3	31	0	2	0	1	0	0	0	0	0
21. 21 years	18	0	18	0	1	0	0	1	0	0	0	0
22. 22 years	9	0	9	0	0	0	0	0	1	0	0	0
23. 23 years	7	0	7	0	0	0	0	0	0	0	0	0
24. 24 years	3	1	2	0	0	0	0	0	0	0	0	0
25. 25 years	3	0	3	0	0	0	0	0	0	0	0	0
26. 26 years	7	0	7	0	0	0	0	0	0	0	0	0
27. 27 years	1	0	1	0	0	0	0	0	0	0	0	0
28. 28 years	3	0	3	0	0	0	0	0	0	0	0	0
29. 29 years	2	0	2	0	1	0	0	0	0	0	0	0
30. 30 years	3	0	3	0	0	0	0	0	1	0	0	0
31. 42 years	1	0	1	0	1	0	0	0	0	0	0	0
32. 43 years	2	0	2	0	0	2	0	0	0	0	0	0
33. 50 years	1	0	1	0	0	1	0	0	0	0	0	0
34. 52 years	1	0	1	0	1	0	0	0	0	0	0	0
35. 53 years	3	0	3	0	0	1	1	0	1	0	0	0
36. 54 years	1	0	1	0	0	0	0	1	0	0	0	0
37. 60 years	1	0	1	0	1	0	0	0	0	0	0	0
38. 62 years	1	0	1	0	1	0	0	0	0	0	0	0
39. 63 years	1	0	1	0	0	1	0	0	0	0	0	0
40. 70 years	1	0	1	0	0	0	0	0	0	0	0	0
41. 74 years	1	0	1	0	0	0	1	0	0	0	0	0
42. 88 years	1	0	1	0	0	0	0	0	0	0	1	0

¹Not reported includes individual item nonresponse. This includes current military personnel and all civilians with no military service.

²This question was asked of only persons reporting active-duty military service in the past, but not now; that is, civilian veterans.

³Not reported includes individual item nonresponse, person refusals, movers, and other noninterviews (that is, persons with language barriers, persons who were ill, hospitalized, or temporarily absent, deceased, and so forth). This includes current military personnel and all civilians with no military service.

Table D.25a. Census Question P17C—In Total, How Many Years Of Active-Duty Military Service Has This Person Had?—Edited: 1990 Census—Con.

Reinterview classification	Census classification—Con.																			
	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
Total	57	12	17	5	5	8	14	0	2	4	48	22	14	12	8	3	9	7	3	
Not reported ³	33	7	12	2	0	3	8	0	0	2	19	11	5	7	4	1	6	4	1	
Reported	24	5	5	3	5	5	6	0	2	2	29	11	9	5	4	2	3	3	2	
Item responses:																				
1. 1 year	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2. 2 years	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3. 3 years	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4. 4 years	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5. 5 years	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6. 6 years	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7. 7 years	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8. 8 years	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9. 9 years	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10. 10 years	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11. 11 years	2	1	1	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	
12. 12 years	2	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13. 13 years	1	0	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
14. 14 years	0	0	0	1	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	
15. 15 years	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16. 16 years	0	0	0	0	1	0	3	0	0	0	0	0	0	0	1	0	0	0	0	
17. 17 years	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	
18. 18 years	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	
19. 19 years	0	0	0	0	0	1	0	0	0	1	1	1	1	0	0	0	0	0	0	
20. 20 years	2	1	0	0	0	0	0	0	0	0	21	2	0	1	0	0	0	0	0	
21. 21 years	4	0	0	0	0	2	0	0	1	0	3	4	2	0	0	0	0	0	0	
22. 22 years	1	0	0	0	0	0	0	0	0	0	1	1	5	0	0	0	0	0	0	
23. 23 years	0	0	0	0	0	0	1	0	0	0	0	0	1	4	0	1	0	0	0	
24. 24 years	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	
25. 25 years	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	
26. 26 years	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	3	2	0	
27. 27 years	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	
28. 28 years	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	
29. 29 years	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
30. 30 years	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
31. 42 years	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
32. 43 years	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
33. 50 years	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
34. 52 years	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
35. 53 years	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
36. 55 years	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
37. 60 years	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
38. 62 years	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
39. 63 years	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
40. 70 years	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
41. 74 years	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
42. 88 years	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

¹Not reported includes individual item nonresponse. This includes current military personnel and all civilians with no military service.

²This question was asked of only persons reporting active-duty military service in the past, but not now; that is, civilian veterans.

³Not reported includes individual item nonresponse, person refusals, movers, and other noninterviews (that is, persons with language barriers, persons who were ill, hospitalized, or temporarily absent, deceased, and so forth). This includes current military personnel and all civilians with no military service.

Table D.25a. Census Question P17C—In Total, How Many Years of Active-Duty Military Service Has This Person Had?—Edited: 1990 Census—Con.

Reinterview classification	Census classification—Con.													
	29	30	31	32	33	34	35	36	37	38	39	40	41	42
Total	1	8	0	0	0	0	1	0	0	0	0	0	0	0
Not reported ³	0	4	0	0	0	0	1	0	0	0	0	0	0	0
Reported	1	4	0	0	0	0	0	0	0	0	0	0	0	0
Item responses:														
1. 1 year	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2. 2 years	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3. 3 years	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4. 4 years	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5. 5 years	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6. 6 years	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7. 7 years	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8. 8 years	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9. 9 years	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10. 10 years	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11. 11 years	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12. 12 years	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13. 13 years	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14. 14 years	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15. 15 years	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16. 16 years	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17. 17 years	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18. 18 years	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19. 19 years	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20. 20 years	0	1	0	0	0	0	0	0	0	0	0	0	0	0
21. 21 years	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22. 22 years	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23. 23 years	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24. 24 years	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25. 25 years	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26. 26 years	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27. 27 years	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28. 28 years	1	0	0	0	0	0	0	0	0	0	0	0	0	0
29. 29 years	0	1	0	0	0	0	0	0	0	0	0	0	0	0
30. 30 years	0	2	0	0	0	0	0	0	0	0	0	0	0	0
31. 42 years	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32. 43 years	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33. 50 years	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34. 52 years	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35. 53 years	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36. 55 years	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37. 60 years	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38. 62 years	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39. 63 years	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40. 70 years	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41. 74 years	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42. 88 years	0	0	0	0	0	0	0	0	0	0	0	0	0	0

¹Not reported includes individual item nonresponse. This includes current military personnel and all civilians with no military service.

²This question was asked of only persons reporting active-duty military service in the past, but not now; that is, civilian veterans.

³Not reported includes individual item nonresponse, person refusals, movers, and other noninterviews (that is, persons with language barriers, persons who were ill, hospitalized, or temporarily absent, deceased, and so forth). This includes current military personnel and all civilians with no military service.

Table D.25b. Census Question P17C—In Total, How Many Years of Active-Duty Military Service Has This Person Had?—Edited: 1990 Census (Collapsed to 5 Categories)

Reinterview classification	Census classification							
	Total	Not reported ¹	Reported ²	1	2	3	4	5
Total	27,983	24,486	3,497	295	950	2,049	67	136
Not reported ³	26,591	24,437	2,154	218	604	1,235	34	63
Reported	1,392	49	1,343	77	346	814	33	73
Item responses:								
1. Less than 2 years	90	6	84	36	33	14	1	0
2. 2 years	345	15	330	22	244	63	1	0
3. 3 to 10 years	806	23	783	19	59	704	1	0
4. 11 to 19 years	46	1	45	0	2	12	24	7
5. 20 years or more	105	4	101	0	8	21	6	66

¹Not reported includes individual item nonresponse. This includes current military personnel and all civilians with no military service.

²This question was asked of only persons reporting active-duty military service in the past, but not now; that is, civilian veterans.

³Not reported includes individual item nonresponse, person refusals, movers, and other noninterviews (that is, persons with language barriers, persons who were ill, hospitalized, or temporarily absent, deceased, and so forth). This includes current military personnel and all civilians with no military service.

Table D.26. Census Question P18A—Does This Person Have a Physical, Mental, or Other Health Condition That Has Lasted for 6 or More Months and Which Limits the Kind or Amount of Work This Person Can Do at A Job?—Unedited: 1990 Census

Reinterview classification	Census classification				
	Total	Not reported ¹	Reported	1	2
Total	29,647	7,056	22,591	2,619	19,972
Not reported ²	12,902	5,889	7,013	1,326	5,687
Reported	16,745	1,167	15,578	1,293	14,285
Item responses:					
1. Yes	1,733	126	1,607	884	723
2. No	15,012	1,041	13,971	409	13,562

¹Not reported includes individual item nonresponse. This question was asked of only persons 15 years or older

²Not reported includes individual item nonresponse, person refusals, movers, and other noninterviews (that is, persons with language barriers, persons who were ill, hospitalized, or temporarily absent, deceased, and so forth). This question was asked of only persons between 15 and 65 years of age.

Table D.27. Census Question P18B—Does This Person Have a Physical, Mental, or Other Health Condition That Has Lasted for 6 or More Months and Which Prevents This Person From Working at a Job?—Unedited: 1990 Census

Reinterview classification	Census classification				
	Total	Not reported ¹	Reported	1	2
Total	29,647	7,757	21,890	1,943	19,947
Not reported ²	27,941	7,599	20,342	1,328	19,014
Reported³	1,706	158	1,548	615	933
Item responses:					
1. Yes	931	86	845	550	295
2. No	775	72	703	65	638

¹Not reported includes individual item nonresponse. This question was asked of only persons 15 years or older

²Not reported includes individual item nonresponse, person refusals, movers, and other noninterviews (that is, persons with language barriers, persons who were ill, hospitalized, or temporarily absent, deceased, and so forth). This question was asked of only persons between 15 and 65 years of age.

³Includes only persons who reported "Yes" to CRS question 33a.

Table D.28. Census Question P19A—Because of a Health Condition That Has Lasted for 6 or More Months, Does This Person Have Any Difficulty Going Outside the Home Alone, for Example, to Shop or Visit a Doctor’s Office?—Unedited: 1990 Census

Reinterview classification	Census classification				
	Total	Not reported ¹	Reported	1	2
Total	29,647	7,336	22,311	943	21,368
Not reported ²	9,639	5,745	3,894	203	3,691
Reported	20,008	1,591	18,417	740	17,677
Item responses:					
1. Yes	812	70	742	406	336
2. No	19,196	1,521	17,675	334	17,341

¹Not reported includes individual item nonresponse. This question was asked of only persons 15 years or older

²Not reported includes individual item nonresponse, person refusals, movers, and other noninterviews (that is, persons with language barriers, persons who were ill, hospitalized, or temporarily absent, deceased, and so forth). This question was asked of only persons 15 years or older.

Table D.29. Census Question P19B—Because of a Health Condition That Has Lasted for 6 or More Months, Does This Person Have Any Difficulty Taking Care of His or Her Own Personal Needs, Such as Bathing, Dressing, or Getting Around Inside the Home?—Unedited: 1990 Census

Reinterview classification	Census classification				
	Total	Not reported ¹	Reported	1	2
Total	29,647	7,504	22,143	992	21,151
Not reported ²	9,837	5,825	4,012	234	3,778
Reported	19,810	1,679	18,131	758	17,373
Item responses:					
1. Yes	413	37	376	161	215
2. No	19,397	1,642	17,755	597	17,158

¹Not reported includes individual item nonresponse. This question was asked of only persons 15 years or older.

²Not reported includes individual item nonresponse, person refusals, movers, and other noninterviews (that is, persons with language barriers, persons who were ill, hospitalized, or temporarily absent, deceased, and so forth). This question was asked of only persons 15 years or older.

Table D.30. Census Question P30—Was This Person. . .?—Unedited: 1990 Census (Uses Reinterview Recode)

Reinterview classification	Census classification										
	Total	Not reported ¹	Reported	1	2	3	4	5	6	7	8
Total	29,647	12,954	16,693	11,339	996	1,099	778	641	1,207	454	179
Not reported ²	16,384	11,497	4,887	3,405	258	292	197	188	328	107	112
Reported	13,263	1,457	11,806	7,934	738	807	581	453	879	347	67
Item responses											
1. Employee of a PRIVATE FOR PROFIT company or of an individual, for wages, salary or commissions	8,806	978	7,828	7,280	170	60	41	28	142	88	19
2. Employee of a PRIVATE NOT-FOR-PROFIT, tax exempt, or charitable organization	763	60	703	176	464	28	15	5	10	3	2
3. Local GOVERNMENT employee	968	112	856	84	54	617	83	8	6	2	2
4. State GOVERNMENT employee	668	63	605	45	34	82	429	12	2	0	1
5. Federal GOVERNMENT employee	498	37	461	32	5	14	7	398	4	1	0
6. SELF-EMPLOYED in own NOT INCORPORATED business, professional practice, or farm	1,118	157	961	196	10	5	4	2	659	61	24
7. SELF-EMPLOYED in own INCORPORATED business, professional practice, or farm	375	32	343	102	1	1	2	0	42	190	5
8. Working WITHOUT PAY in family business or farm	67	18	49	19	0	0	0	0	14	2	14

¹Not reported includes individual item nonresponse. This question was asked of only persons 15 years or older who reported working in 1985 or later.

²Not reported includes individual item nonresponse, person refusals, movers, and other noninterviews (that is, persons with language barriers, persons who were ill, hospitalized, or temporarily absent, deceased, and so forth). This question was asked of only persons 15 years or older who reported working since January 1, 1989 or later.

Table D.31. Census Question P31A—Last Year (1989), Did This Person Work, Even for a Few Days, at a Paid Job or in a Business or Farm?—Unedited: 1990 Census

Reinterview classification	Census classification				
	Total	Not reported ¹	Reported	1	2
Total	29,647	11,634	18,013	13,507	4,506
Not reported ²	9,723	6,773	2,950	2,142	808
Reported	19,924	4,861	15,063	11,365	3,698
Item responses:					
1. Yes	12,530	1,233	11,297	10,041	1,256
2. No	7,394	3,628	3,766	1,324	2,442

¹Not reported includes individual item nonresponse. This question was asked of only persons 15 years or older

²Not reported includes individual item nonresponse, person refusals, movers, and other noninterviews (that is, persons with language barriers, persons who were ill, hospitalized, or temporarily absent, deceased, and so forth). This question was asked of only persons 15 years or older.

Table D.32. Census Question P31B—How Many Weeks Did This Person Work in 1989?—Edited: 1990 Census

Reinterview classification	Census classification								
	Total	Not reported ¹	Reported	1	2	3	4	5	6
Total	27,983	12,526	15,457	9,821	702	1,255	1,153	1,329	1,197
Not reported ²	15,709	11,589	4,120	2,164	193	345	357	514	547
Reported	12,274	937	11,337	7,657	509	910	796	815	650
Item responses:									
1. 50-52 weeks	8,660	311	8,349	6,977	377	433	251	192	119
2. 48-49 weeks	283	13	270	156	40	41	16	9	8
3. 40-47 weeks	722	39	683	202	44	257	109	52	19
4. 27-39 weeks	731	55	676	121	20	112	270	124	29
5. 14-26 weeks	827	106	721	123	16	45	101	316	120
6. 1-13 weeks	1,051	413	638	78	12	22	49	122	355

¹Not reported includes individual item nonresponse. This question was asked of only persons 15 years or older who reported working in 1985 or later.

²Not reported includes individual item nonresponse, person refusals, movers, and other noninterviews (that is, persons with language barriers, persons who were ill, hospitalized, or temporarily absent, deceased, and so forth). This question was asked of only persons 15 years or older who reported working in 1989.

Table D.33. Census Question P31C—During the Weeks WORKED in 1989, How Many Hours Did This Person Usually Work Each Week?—Edited: 1990 Census (Collapsed to 2 Categories)

Reinterview classification	Census classification				
	Total	Not reported ¹	Reported	1	2
Total	27,983	12,526	15,457	12,141	3,316
Not reported ²	15,667	11,564	4,103	3,056	1,047
Reported	12,316	962	11,354	9,085	2,269
Item responses:					
1. 35 hours or more	9,427	378	9,049	8,455	594
2. 1-34 hours	2,889	584	2,305	630	1,675

¹Not reported includes individual item nonresponse. This question was asked of only persons 15 years or older who reported working in 1985 or later.

²Not reported includes individual item nonresponse, person refusals, movers, and other noninterviews (that is, persons with language barriers, persons who were ill, hospitalized, or temporarily absent, deceased, and so forth). This question was asked of only persons 15 years or older who reported working in 1989.

Table D.34. Census Question P31C—During the Weeks WORKED in 1989, How Many Hours Did This Person Usually Work Each Week?—Edited: 1990 Census (Collapsed to 3 Categories)

Reinterview classification	Census classification					
	Total	Not reported ¹	Reported	1	2	3
Total	27,983	12,526	15,457	12,141	2,634	682
Not reported ²	15,667	11,564	4,103	3,056	800	247
Reported	12,316	962	11,354	9,085	1,834	435
Item responses:						
1. 35 hours or more	9,427	378	9,049	8,455	500	94
2. 15-34 hours	2,167	291	1,876	496	1,208	172
3. 1-14 hours	722	293	429	134	126	169

¹Not reported includes individual item nonresponse. This question was asked of only persons 15 years or older who reported working in 1985 or later.

²Not reported includes individual item nonresponse, person refusals, movers, and other noninterviews (that is, persons with language barriers, persons who were ill, hospitalized, or temporarily absent, deceased, and so forth). This question was asked of only persons 15 years or older who reported working in 1989.

APPENDIX E. Additional Tables

Table E.1. Questions Used to Determine Housing Subgroups

Subgroups	Question (unedited census)
Black householder Non-Black householder	Household relationship (P2), Race (P4)
Spanish/ Hispanic householder Non-Spanish/ Hispanic householder	Household relationship (P2), Spanish/ Hispanic origin (P7)
Non-Black and Non-Spanish/ Hispanic householder	Household relationship (P2), Race (P4), and Spanish/ Hispanic origin (P7)

Table E.2. Response Error Measures for Rent (Includes Additional Outside Payments)

Census questions and categories	Sample size	Percent in class		Net difference rate		Index of inconsistency	
		Census	CRS	Estimate	90-percent confidence interval	Estimate	90-percent confidence interval
H7A: What is the Monthly Rent?	2,449	-	-	-	-	-	-
Less than \$80	-	3.8	3.4	0.3	-0.1 to 0.8	28.3	22.3 to 35.9
\$80 to \$99	-	1.9	1.4	*0.5	0.1 to 0.9	47.1	36.1 to 61.5
\$100 to \$124	-	3.3	3.0	0.2	-0.2 to 0.7	29.5	23.0 to 37.8
\$125 to \$149	-	2.7	2.5	0.2	-0.2 to 0.7	38.5	30.4 to 48.8
\$150 to \$174	-	4.5	4.2	0.3	-0.3 to 0.8	32.2	26.3 to 39.5
\$175 to \$199	-	3.4	2.9	0.4	0.0 to 0.9	31.3	24.6 to 39.8
\$200 to \$224	-	5.5	5.9	-0.4	-0.9 to 0.2	26.2	21.5 to 32.0
\$225 to \$249	-	3.7	3.2	0.5	0.0 to 1.0	32.9	26.3 to 41.1
\$250 to \$274	-	5.5	5.6	-0.1	-0.7 to 0.5	30.6	25.5 to 36.9
\$275 to \$299	-	5.0	4.7	0.3	-0.3 to 0.9	33.9	28.1 to 40.8
\$300 to \$324	-	5.8	6.1	-0.3	-1.0 to 0.4	37.1	31.6 to 43.7
\$325 to \$349	-	4.0	3.7	0.2	-0.3 to 0.8	38.7	31.8 to 47.1
\$350 to \$374	-	5.7	5.6	0.1	-0.6 to 0.7	35.8	30.3 to 42.5
\$375 to \$399	-	5.0	4.9	0.1	-0.5 to 0.8	37.7	31.6 to 44.9
\$400 to \$424	-	5.2	5.7	-0.5	-1.2 to 0.2	42.9	36.6 to 50.3
\$425 to \$449	-	3.6	3.5	0.2	-0.4 to 0.8	48.9	40.7 to 58.6
\$450 to \$474	-	4.0	4.5	-0.5	-1.2 to 0.1	44.5	37.4 to 52.9
\$475 to \$499	-	3.8	3.3	0.4	-0.1 to 0.9	36.9	30.0 to 45.5
\$500 to \$524	-	3.0	3.4	-0.4	-0.9 to 0.1	38.4	30.9 to 47.6
\$525 to \$549	-	2.0	1.6	0.4	-0.1 to 0.8	46.9	36.3 to 60.6
\$550 to \$599	-	4.6	4.6	0.0	-0.6 to 0.6	34.6	28.6 to 41.9
\$600 to \$649	-	2.6	3.8	*-1.1	-1.7 to -0.6	39.7	32.1 to 49.1
\$650 to \$699	-	2.9	2.8	0.0	-0.5 to 0.5	39.2	31.3 to 49.2
\$700 to \$749	-	2.3	2.5	-0.2	-0.6 to 0.2	33.6	25.8 to 43.7
\$750 to \$999	-	4.5	4.9	-0.4	-0.8 to 0.1	18.8	14.5 to 24.3
\$1,000 or more	-	1.8	2.1	-0.3	-0.5 to 0.0	14.0	8.9 to 21.9
L-fold							
Total units:	2,449	-	-	-	-	35.0	33.4 to 36.7
Black householder	366	-	-	-	-	46.5	42.4 to 51.4
Non-black householder	2,023	-	-	-	-	32.8	31.1 to 34.6
Spanish/ Hispanic householder	232	-	-	-	-	42.0	37.1 to 48.2
Non-Spanish/ Hispanic householder	2,098	-	-	-	-	34.4	32.8 to 36.3
Non-black and non-Spanish/ Hispanic householder	1,744	-	-	--	-	32.1	30.2 to 34.0

* Indicates significance at the 10-percent level.

Table E.3. Census Question H7A—What Is the Monthly Rent?—Unedited: 1990 Census (Includes Additional Outside Payments)

Reinterview classification	Census classification													
	Total	Not reported ¹	Re-reported	1	2	3	4	5	6	7	8	9	10	11
Total	12,872	8,944	3,928	173	63	118	99	166	130	222	159	220	201	236
Not reported ²	10,256	8,777	1,479	81	16	38	32	57	47	87	68	85	78	94
Reported	2,616	167	2,449	92	47	80	67	109	83	135	91	135	123	142
Item responses:														
1. Less than \$80.....	96	12	84	64	7	3	0	1	1	3	1	2	0	1
2. \$80 to \$99.....	36	1	35	5	22	3	1	0	0	2	0	0	0	0
3. \$100 to \$124.....	84	10	74	2	8	55	2	2	0	2	2	1	0	0
4. \$125 to \$149.....	70	9	61	1	0	9	40	8	1	0	0	0	1	0
5. \$150 to \$174.....	112	10	102	0	0	3	11	73	6	2	0	1	1	1
6. \$175 to \$199.....	79	7	72	1	1	1	1	7	54	1	0	1	1	1
7. \$200 to \$224.....	157	13	144	3	3	1	2	5	11	105	4	5	1	3
8. \$225 to \$249.....	84	5	79	2	0	1	0	0	1	9	58	4	0	1
9. \$250 to \$274.....	145	7	138	4	2	1	2	3	1	4	13	97	5	0
10. \$275 to \$299.....	121	5	116	1	0	0	1	3	1	2	1	9	81	9
11. \$300 to \$324.....	164	14	150	1	0	0	2	2	2	1	3	7	19	95
12. \$325 to \$349.....	96	5	91	1	0	1	0	0	1	0	4	1	5	12
13. \$350 to \$374.....	146	8	138	1	0	0	0	3	2	1	0	2	1	9
14. \$375 to \$399.....	127	7	120	0	1	1	1	0	0	0	1	1	4	3
15. \$400 to \$424.....	148	9	139	1	2	1	0	0	0	1	2	1	1	3
16. \$425 to \$449.....	88	3	85	1	0	0	1	0	1	0	0	1	0	1
17. \$450 to \$474.....	116	5	111	0	0	0	1	0	0	0	1	0	0	1
18. \$475 to \$499.....	86	4	82	0	0	0	1	1	0	0	0	0	0	0
19. \$500 to \$524.....	89	6	83	0	0	0	0	0	0	0	1	0	0	0
20. \$525 to \$549.....	41	1	40	0	0	0	0	0	0	0	0	0	0	0
21. \$550 to \$599.....	119	7	112	0	0	0	0	0	0	0	0	0	2	0
22. \$600 to \$649.....	95	3	92	0	1	0	0	0	0	0	0	0	0	1
23. \$650 to \$699.....	72	3	69	1	0	0	0	1	0	0	0	0	0	1
24. \$700 to \$749.....	65	3	62	1	0	0	0	0	0	1	0	0	1	0
25. \$750 to \$999.....	125	6	119	2	0	0	1	0	0	1	0	1	0	0
26. \$1,000 or more.....	55	4	51	0	0	0	0	0	1	0	0	1	0	0

¹Not reported includes individual item nonresponse. This question was asked of only renters.

²Not reported includes individual item nonresponse, household refusals, movers, vacants, and other noninterviews (that is, households with language barriers, all household members ill, hospitalized, or temporarily absent during the entire survey period, and so forth). This question was asked of only renters.

Table E.3. Census Question H7A—What Is the Monthly Rent?—Unedited: 1990 Census (Includes Additional Outside Payments)—Con.

Reinterview classification	Census classification—Con.															
	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	
Total	162	214	186	213	144	146	132	124	76	174	105	108	91	185	81	
Not reported ²	65	74	63	86	55	48	40	51	27	62	41	38	34	75	37	
Reported	97	140	123	127	89	98	92	73	49	112	64	70	57	110	44	
Item responses:																
1. Less than \$80.....	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
2. \$80 to \$99.....	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0
3. \$100 to \$124.....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4. \$125 to \$149.....	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5. \$150 to \$174.....	1	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0
6. \$175 to \$199.....	0	0	1	0	0	0	1	0	0	1	0	0	0	0	0	0
7. \$200 to \$224.....	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
8. \$225 to \$249.....	0	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0
9. \$250 to \$274.....	0	2	1	0	0	1	0	0	1	0	1	0	0	0	0	0
10. \$275 to \$299.....	0	4	1	0	1	0	1	1	0	0	0	0	0	0	0	0
11. \$300 to \$324.....	8	3	3	2	1	0	0	0	0	0	0	0	0	1	0	0
12. \$325 to \$349.....	59	3	0	1	1	0	2	0	0	0	0	0	0	0	0	0
13. \$350 to \$374.....	19	92	2	4	0	0	1	1	0	0	0	0	0	0	0	0
14. \$375 to \$399.....	4	17	78	5	1	1	0	1	0	0	1	0	0	0	0	0
15. \$400 to \$424.....	2	8	26	79	5	5	0	0	0	1	0	0	0	1	0	0
16. \$425 to \$449.....	0	2	3	19	46	6	2	2	0	0	0	0	0	0	0	0
17. \$450 to \$474.....	0	4	2	8	24	60	6	2	0	1	1	0	0	0	0	0
18. \$475 to \$499.....	0	2	0	3	6	9	56	2	0	2	0	0	0	0	0	0
19. \$500 to \$524.....	0	0	3	1	1	7	13	49	3	4	1	0	0	0	0	0
20. \$525 to \$549.....	0	0	0	0	0	3	2	7	24	1	2	0	1	0	0	0
21. \$550 to \$599.....	0	0	1	1	1	2	2	5	13	75	4	2	2	2	0	0
22. \$600 to \$649.....	0	1	0	1	1	0	3	3	3	18	48	9	1	1	1	1
23. \$650 to \$699.....	1	0	1	2	0	0	1	0	3	4	6	43	4	1	0	0
24. \$700 to \$749.....	2	0	0	1	0	0	0	0	1	1	0	9	40	4	1	1
25. \$750 to \$999.....	0	0	0	0	0	1	0	0	1	2	0	6	9	94	1	1
26. \$1,000 or more....	0	0	0	0	0	0	0	0	0	1	0	1	0	6	41	1

¹Not reported includes individual item nonresponse. This question was asked of only renters.

²Not reported includes individual item nonresponse, household refusals, movers, vacants, and other noninterviews (that is, households with language barriers, all household members ill, hospitalized, or temporarily absent during the entire survey period, and so forth). This question was asked of only renters.

Table E.4. Indexes of Inconsistency and Net Difference Rates for Year Built: Owner Occupied Units

Year built	Percent in class		Net difference rate		Index of inconsistency	
	Census ¹	CRS	Estimate	90-percent confidence interval	Estimate	90-percent confidence interval
1989 or 1990	1.1	1.6	*-0.4	-0.7 to -0.2	48.7	41.0 to 58.0
1985 to 1988	8.1	8.5	*-0.4	-0.8 to -0.1	22.3	20.0 to 24.8
1980 to 1984	8.2	8.3	0.0	-0.5 to 0.4	32.6	29.8 to 35.6
1970 to 1979	22.7	22.8	-0.1	-0.6 to 0.5	23.7	22.1 to 25.3
1960 to 1969	16.0	15.9	0.0	-0.5 to 0.6	32.8	30.7 to 35.1
1950 to 1959	16.0	15.0	* 1.0	0.4 to 1.6	34.2	32.0 to 36.5
1940 to 1949	8.8	8.0	* 0.8	0.3 to 1.3	47.7	44.3 to 51.3
1939 or earlier	19.0	19.9	*-0.9	-1.4 to -0.4	24.1	24.4 to 25.9
L-fold index					30.1	29.1 to 31.2

* Indicates significance at the 10-percent level. ¹ Final edited/ allocated census values.

Table E.5. Indexes of Inconsistency and Net Difference Rates for Year Built: Renter Occupied Units

Year built	Percent in class		Net difference rate		Index of inconsistency	
	Census ¹	CRS	Estimate	90-percent confidence interval	Estimate	90-percent confidence interval
1989 or 1990	1.1	1.4	-0.4	-0.8 to 0.1	62.3	46.6 to 83.2
1985 to 1988	8.7	7.8	1.0	0.0 to 1.9	42.8	37.2 to 49.3
1980 to 1984	10.5	9.2	* 1.3	0.2 to 2.5	57.0	51.3 to 63.5
1970 to 1979	21.9	22.6	-0.7	-2.3 to 0.9	57.1	53.1 to 61.4
1960 to 1969	15.8	15.2	0.6	-0.9 to 2.1	67.1	62.1 to 72.6
1950 to 1959	12.7	12.0	0.7	-0.7 to 2.1	70.2	64.5 to 76.5
1940 to 1949	9.2	9.1	0.1	-1.1 to 1.3	69.1	62.6 to 76.4
1939 or earlier	20.2	22.8	*-2.6	-4.0 to -1.2	44.0	40.4 to 48.0
L-fold index					57.7	55.6 to 59.9

* Indicates significance at the 10-percent level. ¹ Final edited/ allocated census values.

Table E.6. Questions Used to Determine Population Subgroups

Subgroups	Question (unedited census)
Male Female	Sex (P3)
White Black Other	Race (P4)
Native born Foreign born	Citizenship (P9)
Hispanic Non-Hispanic	Spanish/ Hispanic origin (P7)

Table E.7. Response Errors for Census Question P31A (With Reinterview Recodes)

Census questions and categories	Sample size	Percent in class		Net difference rate		Index of inconsistency	
		Census	CRS	Estimate	90-percent confidence interval	Estimate	90-percent confidence interval
P31A: Last Year (1989), Did This Person Work, Even for a Few Days, at a Paid Job or in a Business or a Farm?.....	14,921						
Yes	-	75.4	77.9	* -2.5	-3.1 to -2.0	44.6	43.2 to 46.0
No	-	24.6	22.1	* 2.5	2.0 to 3.1	44.6	43.2 to 46.0
L-fold:							
Total persons	14,921	75.4	77.9	* -2.5	-3.1 to -2.0	44.6	43.2 to 46.0
Male ¹	7,529	79.1	82.0	* -2.8	-3.6 to -2.1	49.5	47.4 to 51.8
Female ¹	7,326	71.6	73.8	* -2.1	-2.9 to -1.4	41.3	39.5 to 43.1
White ¹	12,943	75.8	78.4	* -2.6	-3.1 to -2.0	42.8	41.4 to 44.3
Black ¹	1,139	70.3	73.0	* -2.6	-4.9 to -0.4	50.9	46.4 to 56.1
Other ¹	641	76.9	78.3	-1.4	-4.4 to 1.6	62.4	55.3 to 70.7

* Indicates significance at the 10-percent level. - Not applicable. ... Not sufficient data to compute reliable response error measures.
¹Results for the category "Yes."

Table E.8. Census Question P31A—Last Year (1989), Did This Person Work, Even for a Few Days, at a Paid Job or in a Business or Farm?—Unedited: 1990 Census (With Reinterview Recodes)

Reinterview classification	Census classification				
	Total	Not reported ¹	Reported	1	2
Total	29,647	11,634	18,013	13,507	4,506
Not reported ²	9,941	6,849	3,092	2,257	835
Reported	19,706	4,785	14,921	11,250	3,671
Item responses:					
Yes	12,998	1,372	11,626	10,247	1,379
No	6,708	3,413	3,295	1,003	2,292

¹Not reported includes individual item nonresponse. This question was asked of only persons 15 years or older

²Not reported includes individual item nonresponse, person refusals, movers, and other noninterviews (that is, persons with language barriers, persons who were ill, hospitalized, or temporarily absent, deceased, and so forth). This question was asked of only persons 15 years or older.

Table E.9. Response Errors for Census Question P17A (Edited Census Data)

Census questions and categories	Sample size	Percent in class		Net difference rate		Index of inconsistency	
		Census	CRS	Estimate	90-percent confidence interval	Estimate	90-percent confidence interval
P17A: Has This Person Ever Been on Active-Duty Military Service?	18,253	-	-	-	-	-	-
Yes, now on active duty	-	0.5	0.4	0.1	0.0 to 0.1	28.5	22.4 to 36.3
Yes, on active duty in past, but not now ...	-	15.6	15.5	0.0	-0.1 to 0.2	8.4	7.7 to 9.1
Yes, service in Reserves or National Guard only	-	1.8	1.9	-0.1	-0.2 to 0.0	30.0	26.7 to 33.7
No	-	82.1	82.1	0.0	-0.2 to 0.1	5.8	5.3 to 6.4
L-fold:							
Total persons	18,253	-	-	-	-	8.8	8.1 to 9.4
Male	8,508	-	-	-	-	9.7	8.9 to 10.5
Female	9,745	-	-	-	-	32.6	26.8 to 39.6
White	15,799	-	-	-	-	7.9	7.3 to 8.6
Black	1,577	-	-	-	-	18.5	15.1 to 22.8
Other	877	-	-	-	-	16.3	11.4 to 23.4

* Indicates significance at the 10-percent level. - Not applicable ... Not sufficient data to compute reliable response error measures.

Table E.10. Census Question P17A—Has This Person Ever Been on Active-Duty Military Service in the Armed Forces of the United States or Ever Been in the United States Military Reserves or the National Guard?—Edited: 1990 Census

Reinterview classification	Census classification						
	Total	Not reported ¹	Reported	1	2	3	4
Total	27,983	5,965	22,018	116	3,381	387	18,134
Not reported ²	9,112	5,347	3,765	27	537	55	3,146
Reported	18,871	618	18,253	89	2,844	332	14,988
Item responses:							
Yes, now on active duty	74	1	73	58	12	3	0
Yes, on active duty in past, but not now	2,842	7	2,835	23	2,638	68	106
Yes, service in reserves or national guard only	354	3	351	2	61	241	47
No	15,601	607	14,994	6	133	20	14,835

¹Not reported includes individual item nonresponse. This question was asked of only persons 15 years or older

²Not reported includes individual item nonresponse, person refusals, movers, and other noninterviews (that is, persons with language barriers, persons who were ill, hospitalized, or temporarily absent, deceased, and so forth). This question was asked of only persons 15 years or older.

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The following are a series of reports documenting the content development of the 1990 Census of Population and Housing. They are an invaluable source of information for detailed steps leading to the determination of the questions pertaining to a specific topic. The history of the item and changes from the 1980 census are discussed in each report. These reports are referred to for background information for many of the topics in this report.

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NOTE TO THE READER

This Census of Population and Housing Evaluation and Research Report is designed to inform the public about the decennial census evaluation program and results for its major content evaluation. If you would like additional information on anything presented in this publication, please write to:

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Your questions are welcome and any requested information will be provided.