

Accuracy of the Data (1999)

INTRODUCTION

The data contained in these Profiles and Summary Tables are based on the American Community Survey (ACS) sample interviewed in 1999. The ACS is designed to provide accurate estimates for the housing units and population of the sites participating in the 1999 ACS. The ACS, like any other statistical activity, is subject to error. The purpose of this documentation is to provide data users with a basic understanding of the ACS sample design, estimation methodology, and accuracy of the ACS data.

The “*Operational Overview of the 1999 American Community Survey*” provides information on the sites, data collection, and Master Address File.

SAMPLE DESIGN

- Sites -- Thirty-six counties participated in the 1999 ACS. The primary sampling unit was the housing unit (HU), including all occupants. Persons living in group quarters (GQ) were also included in the sample.
- Sampling Rates -- In Fort Bend and Harris Counties, TX the overall HU sampling rate was 1 percent. In Broward, FL; Bronx, NY; Lake, IL; San Francisco, CA; and Franklin, OH the overall HU sampling rate was 3 percent. The remaining counties were sampled at 5 percent. The sampling rate within the county varied by the size of the governmental unit the housing unit was in. These sampling rates are provided under the section “ESTIMATION PROCEDURE”. A variable sampling rate was used for the purpose of providing relatively more reliable estimates for small areas.

GQs were sampled at 3 percent in all counties.

CONFIDENTIALITY OF THE DATA

- Confidentiality Edit -- To maintain the confidentiality required by law (Title 13, United States Code), the Census Bureau applies a confidentiality edit to the ACS data to assure that published data do not disclose information about specific individuals, households, or housing units. As a result, a small amount of uncertainty is introduced into the estimates of ACS characteristics. The sample itself provides adequate protection for most areas for which sample data are published since the resulting data are estimates of the actual characteristics. However, small areas require more protection. The confidentiality edit is implemented by identifying a subset of individual housing units from the sample data files as having a unique combination of specified person and household

characteristics within a block group. The confidentiality edit is controlled so that the basic structure of the data is preserved.

ESTIMATION PROCEDURE

The estimates that appear in this product were obtained from a raking ratio estimation procedure that resulted in the assignment of two sets of weights: a weight to each sample person record and a weight to each sample housing unit record. For any given tabulation area, a characteristic total was estimated by summing the weights assigned to the persons, households, families or housing units possessing the characteristic in the tabulation area. Estimates of person characteristics were based on the person weight. Estimates of family, household or housing unit characteristics were based on the housing unit weight.

Each sample person or housing unit record was assigned exactly one weight to be used to produce estimates of all characteristics. For example, if the weight given to a sample person or housing unit had the value 6, all characteristics of that person or housing unit would be tabulated with the weight of 6. The estimation procedure, however, did assign weights varying from person to person or housing unit to housing unit.

The estimation procedure used to assign the weights was performed independently within each of the 1999 ACS sites.

- Initial Housing Unit Weighting Factors - This process produced the following factors:
 - Base Weight (BW) - This factor was assigned to every housing unit based on its sampling stratum and was the inverse of the housing unit's sampling rate. The 1999 sampling rates are shown in the table below.

Type of Area	Fort Bend and Harris, TX	Broward, FL; Bronx, NY; Lake, IL; San Francisco, CA; and Franklin, OH	All Other Counties
Blocks in smallest governmental units (fewer than 800 HUs)	3%	9%	15%
Blocks in small governmental units (between 800 and 1200 HUs)	1.5%	4.5%	7.5%
Blocks in Large Tracts (more than 2000 HUs)	0.75%	2.25%	3.75%
All other blocks (including ungeocoded records)	1%	3%	5%

•CAPI Subsampling Factor (SSF) - The weights of the CAPI cases were adjusted to reflect the results of CAPI subsampling. This factor was assigned to each record as follows:

Selected in CAPI subsampling: $SSF = 3.0$

Not selected in CAPI subsampling: $SSF = 0.0$

Not a CAPI case: $SSF = 1.0$

For Otero county, NM, some addresses were unmailable. A two-thirds sample of these were sent directly to CAPI and for these cases $SSF = 1.5$.

- Variation in Monthly Response by Mode (VMS) - This factor made the total weight of the Mail, Delivery, CATI, and CAPI records to be tabulated in a month equal to the total base weight of all cases originally mailed for that month. The value of VMS for Mail and Delivery cases was 1.0. For CATI and CAPI cases, VMS was computed and assigned based on the following groups.

County x Month

- Noninterview Factor (NIF) - This factor adjusted the weight of all responding occupied housing units to account for both responding and nonresponding housing units. This factor was computed in two stages: NIF1 and NIF2. NIF1 was computed and assigned to occupied housing units based on the following groups.

County x Building Type (single or multi-unit) x Tract

After having adjusted each occupied housing unit for NIF1, a ratio adjustment NIF2 was computed and assigned to occupied housing units based on the following groups.

County x Building Type x Month

NIF was then computed for each occupied housing unit as the product of NIF1 and NIF2. Vacant housing units were assigned a value of $NIF = 1.0$.

Nonresponding housing units were now assigned a weight of 0.0.

- Noninterview Factor - Mode (NIFM) - This factor adjusted the weight of just the responding CAPI occupied housing units to account for both CAPI respondents and all nonrespondents. This factor was computed as if NIF had not already been assigned to every occupied housing unit record. This factor was not used directly

but rather as part of computing the next factor: MBF. NIFM was computed and assigned to occupied CAPI housing units based on the following groups.

County x Building Type x Month

Mail, Delivery and CATI cases received a value of NIFM = 1.0. Vacancies received a value of NIFM = 1.0.

- Mode Bias Factor (MBF) - This factor made the total weight of the housing units in the groups below the same as if NIFM had been used instead of NIF. MBF was computed and assigned to occupied housing units based on the following groups.

County x Tenure (Owner or renter) x Month x Marital Status (married/widowed or other)

Vacant housing units received a value of MBF = 1.0.

- Person Weighting Factors - Initially the person weight of each person in an occupied housing unit was the product of the weighting factors of their associated housing unit (BW x . . . x MBF). At this point everyone in the household would have the same weight. These person weights were then individually adjusted based on each person's age, race, sex, and Hispanic origin as described below.
- Person Post-Stratification Factor (PPSF) - This factor was applied to individuals based on their age, race, sex and Hispanic origin. It adjusted the person weights so that the weighted sample counts matched county population control counts by age, race, sex, and Hispanic origin. These population control counts were independently derived by the Census Bureau's Population Division using demographic analysis.

This was an iterative procedure that first computes PPSF using the following groups:

County x Race (White, Black, Other) x Sex x Age Groups used for Race adjustment

After applying the value of PPSF computed above, a second stage value of PPSF was computed using the following groups:

County x Hispanic Origin (Hispanic, Non-Hispanic) x Sex x Age Groups used for Hispanic adjustment

The above two steps were repeated up to six times, or until the change to PPSF from one iteration to the next became small.

- Rounding - The final product of all person weights (BW x . . . x MBF x PPSF) was rounded to an integer. Rounding was performed so that the sum of the rounded weights was within one person of the sum of the unrounded weights for any of the groups listed below:

County

County x Race

County x Race x Hispanic Origin

County x Race x Hispanic Origin x Sex

County x Race x Hispanic Origin x Sex x Age

County x Race x Hispanic Origin x Sex x Age x Tract

County x Race x Hispanic Origin x Sex x Age x Tract x Block

For example, the number of White, Hispanic, Males, Age 30 estimated for a county using the rounded weights was within one of the number produced using the unrounded weights.

- Final Housing Unit Weighting Factors - This process produced the following factors:
 - Principal Person Factor (PPF) - This factor adjusted for differential response depending on the race, Hispanic origin, sex, and age of the principal person in the household. The principal person was defined as the female spouse of the responding householder. If there was no such person, then the responding householder was the principal person. The value of PPF for a housing unit was the PPSF of the principal person.
- Rounding - The final product of all housing unit weights (BW x . . . x MBF x PPF) was rounded to an integer. Rounding was performed so that total rounded weight was within one housing unit of the total unrounded weight for any of the groups listed below:

County

County x Tract

County x Tract x Block

- Weighting for Persons in Group Quarters - Persons living in group quarters (GQs) had weights assigned somewhat differently:
 - Base Weight (BW) - All persons in group quarters were sampled at a rate of 3%, or one in 33.3333. This was the base weight assigned to all sample group quarters residents.
 - Subsampling Factor (SSF) - If more than 15 persons were sampled in a group quarters, the sample size was reduced to 15 and a SSF was applied to the remaining sample cases to adjust for the reduction. This factor was applied to sample cases in individual GQs, and only when the sample size was greater than 15 for that GQ.
 - Noninterview Factor (NIF) - Unlike the housing unit sample, only one NIF was computed for any GQ sample case. Weights of respondents living in GQs were adjusted upward to account for both responding and nonresponding group quarters cases by county and mode of interview (mail or personal visit). Modes were collapsed within county if there were fewer than ten group quarters residents responding by mail in a county.

At this point, special weighting for persons living in group quarters is complete, and group quarters person records are added into the housing unit person records for additional weighting processing.

No separate estimates are provided for group quarters in the 1999 American Community Survey because of the small group quarters sample sizes. Estimates of persons include persons living in group quarters.

SPECIAL LIMITATIONS OF THE ESTIMATES

The 1999 American Community Survey estimates have some limitations, which they will not have in future years. First, these estimates do not reflect certain kinds of change in the racial and Hispanic origin distributions of the population in selected counties. Second, potential problems are caused by differences between the race and Hispanic origin questions on the American Community Survey questionnaire and the questions on the 1990 census.

Insensitivity to Certain Changes in Race and Hispanic Origin

As with most household surveys, the American Community Survey data are controlled so that the numbers of people in categories defined by age, sex, race, and Hispanic origin agree with the Census Bureau's official intercensal population estimates. The American Community Survey measures the *characteristics* of the population, but the official *count* of the population comes from the previous census, updated by the official intercensal estimates program. As for all surveys conducted by the Census Bureau, the American Community Survey data were controlled to agree with the official population estimates by age, sex, race, and Hispanic origin. In the case of the American Community Survey, controls are at the county level. Such adjustments are important to correct the survey data for potential under-representation of hard-to-enumerate demographic groups compared with the level of coverage achieved in the preceding census.

The methods used to produce the official population estimates, at the county level, are not yet able to reflect changes in the race or Hispanic origin characteristics of people who migrate into and out of the county, if the changes do not follow the pattern for the state as a whole. Consequently, after being controlled to the official population estimates, the American Community Survey data will also not reflect changes that differ from the average for the state.

For example, before the population controls were applied to the American Community Survey data for Rockland County, NY, they showed that a higher percentage of the population identified as Black compared with the official population estimates. This higher percentage corresponds to patterns of immigration known to local experts. With further research and evaluation, after Census 2000 and after the American Community Survey is implemented in all counties, the methods used for official population estimates will be able to incorporate information like this from the American Community Survey, to improve population controls.

A similar situation appears to exist in some of the other sites added in 1999. Specifically, the initial American Community Survey results suggest that there may be a higher percentage of Blacks in Jefferson County, AR; Tulare County, CA; and Broward County, FL; as well as in Rockland County, NY. A higher percentage of Whites may reside in Calvert County, MD; Madison County, MS; and San Francisco County, CA. A higher percentage of Asians may reside in Broward County, FL and Franklin County, OH. However, these differences appear to be considerably smaller than the ones for Bronx County, NY.

The counties in the sites added in 1999 might be expected to have an unusual number of such patterns of change, since many high-growth and especially diverse counties were deliberately selected precisely so that potential problems, such as for survey weighting methods, could be identified and resolved for the future. Some of the higher reporting of

Hispanic origin for the American Community Survey may, however, reflect differences in the wording or layout of the questionnaire, or the reporting patterns of respondents, compared with the 1990 census on which the population controls were based. These differences are described in the next section.

Effects of Differences Between the American Community Survey and the 1990 Census

The American Community Survey differs from the 1990 census, both in the questions and in the procedures used to fill in missing information when respondents do not answer a question. Ordinarily, surveys use questions and missing data procedures comparable to the previous census—that is, the 1990 census. However, because the American Community Survey is to be compared with Census 2000, the 1999 American Community Survey uses the Census 2000 questions and procedures. After Census 2000, special intercensal population estimates for 1999 will be re-computed, to be consistent with the questions and procedures of Census 2000, permitting an exact comparison between the American Community Survey data using the two sets of population estimates as weighting controls—the “1990-based” and “2000-based” ones.

In the meantime, the “2000-based” American Community Survey must use the “1990-based” intercensal estimates as population controls for the 1999 data. Our approach has been to force agreement with the intercensal estimates for the total population, and to apply weighting factors to achieve approximate agreement for the numbers of people in the major race groups and for the number who identify as Hispanic. As stated above, this adjustment, which also takes into account age and sex, is necessary to correct for differences in coverage. While the use of weights does assure that survey totals match the official population estimates of broad groups, the number of people with various combinations of race and Hispanic origin is still based on tabulating the actual survey responses.

In all counties but one, the results of this method seem reasonable, with weighting factors falling generally in the ranges of values expected with such weighting methods. Consequently, the resulting “experimental” estimates are likely to be representative of the characteristics of these counties. We will only be able to confirm this conclusion, however, when Census 2000 information becomes available in March 2001.

At present, the differences between the 1990 and 2000 questions and procedures are having an effect on the data for Bronx County, NY such that the normal statistical methods are unable to adequately compensate for them. The population controls give considerably too much weight to people who are identified as Black Hispanics, too little weight to people who are identified as Black non-Hispanics or White Hispanics, and much too little weight to people identified as White non-Hispanics. Because the characteristics of these groups differ, inaccuracies in the weights mean that the characteristics of combinations of these groups are also inaccurate.

The experimental estimates for Bronx County, NY remain on the American Community Survey website and the American Fact Finder so that data users can study them, but they should be used with great caution, since they do not necessarily provide an accurate profile of Bronx County. The estimates will be recalculated after Census 2000 data are available and revised weights for 1999 can be produced.

ERRORS IN THE DATA

- **Sampling Error** -- The data in the ACS products are estimates of the actual figures that would have been obtained by interviewing the entire population using the same methodology. The estimates from the chosen sample also differ from other samples of housing units and persons within those housing units. Sampling error in data arises due to the use of probability sampling, which is necessary to insure the integrity and representativeness of sample survey results. The implementation of statistical sampling procedures provides the basis for the statistical analysis of sample data.
- **Nonsampling Error** -- In addition to sampling error, data users should realize that other types of errors may be introduced during any of the various complex operations used to collect and process survey data. For example, operations such as editing, reviewing, or keying data from questionnaires may introduce error into the estimates. These and other sources of error contribute to the nonsampling error component of the total error of survey estimates. Nonsampling errors may affect the data in two ways. Errors that are introduced randomly increase the variability of the data. Systematic errors which are consistent in one direction introduce bias into the results of a sample survey. The Census Bureau protects against the effect of systematic errors on survey estimates by conducting extensive research and evaluation programs on sampling techniques, questionnaire design, and data collection and processing procedures. In addition, an important goal of the ACS is to minimize the amount of nonsampling error introduced through nonresponse for sample housing units. One way of accomplishing this is by following up on mail nonrespondents during the CATI and CAPI phases.
- **Standard Errors** -- The standard error is a measure of the deviation of a sample estimate from the average of all possible samples. Sampling errors and some types of nonsampling errors are estimated by the standard error. The sample estimate and its estimated standard error permit the construction of interval estimates with a prescribed confidence that the interval includes the average result of all possible samples. The next section describes the method of calculating standard errors and confidence intervals for the estimates in this ACS product.

CONTROL OF NONSAMPLING ERROR

As mentioned earlier, sample data are subject to nonsampling error. This component of error could introduce serious bias into the data, and the total error could increase dramatically over that which would result purely from sampling. While it is impossible to completely eliminate nonsampling error from a survey operation, the Census Bureau attempts to control the sources of such error during the collection and processing operations. Described below are the primary sources of nonsampling error and the programs instituted for control of this error. The success of these programs, however, is contingent upon how well the instructions actually were carried out during the survey.

- Undercoverage -- It is possible for some sample housing units or persons to be missed entirely by the survey. The undercoverage of persons and housing units can introduce biases into the data. A major way to avoid undercoverage in a survey is to ensure that its sampling frame, for ACS an address list in each site, is as complete and accurate as possible.

The source of addresses was a new product, the Master Address File (MAF), currently being developed by the Census Bureau. The MAF is created by combining the 1990 Census Address Control File and the Delivery Sequence File of the United States Postal Service. An attempt is made to assign all appropriate geographic codes to each MAF address via an automated procedure using the Census Bureau TIGER files. A manual coding operation based in the appropriate regional offices is attempted for addresses which could not be automatically coded. The MAF was used as the source of addresses for selecting sample housing units and mailing questionnaires. TIGER produced the location maps for personal visit CAPI assignments.

In the CATI and CAPI nonresponse follow-up phases, efforts were made to minimize the chances that housing units that were not part of the sample were interviewed in place of units in sample by mistake. If a CATI interviewer called a mail nonresponse case and was not able to reach the exact address, no interview was conducted and the case was eligible for CAPI. During CAPI follow-up, the interviewer had to locate the exact address for each sample housing unit. In some multi-unit structures the interviewer could not locate the exact sample unit or found a different number of units than expected. In these cases the interviewers were instructed to list the units in the building and follow a specific procedure to select a replacement sample unit.

- Respondent and Interviewer Error -- The person answering the questionnaire or responding to the questions posed by an interviewer could serve as a source of error, although the questions were phrased as clearly as possible based on testing, and detailed instructions for completing the questionnaire were provided to each household. In addition, respondents' answers were edited for completeness, and problems were followed up as necessary.

- Interviewer monitoring -- The interviewer may misinterpret or otherwise incorrectly enter information given by a respondent; may fail to collect some of the information for a person or household; or may collect data for households that were not designated as part of the sample. To control these problems, the work of interviewers was monitored carefully. Field staff were prepared for their tasks by using specially developed training packages that included hands-on experience in using survey materials. A sample of the households interviewed by CAPI interviewers was reinterviewed to control for the possibility that interviewers may have fabricated data.
- Item Nonresponse -- Nonresponse to particular questions on the survey questionnaire and instrument allows for the introduction of bias into the data, since the characteristics of the nonrespondents have not been observed and may differ from those reported by respondents. As a result, any imputation procedure using respondent data may not completely reflect this difference either at the elemental level (individual person or housing unit) or on the average.

Some protection against the introduction of large biases is afforded by minimizing nonresponse. In the ACS, nonresponse for the CATI and CAPI operations was reduced substantially by the requirement that the automated instrument receive a response to each question before the next one could be asked. For mail responses, the automated clerical review and follow-up operations were aimed at obtaining a response for every question on selected questionnaires. Values for any items that remain unanswered were imputed by computer using reported data for a person or housing unit with similar characteristics.

- Automated Clerical Review -- Questionnaires returned by mail were edited for completeness and acceptability. They were reviewed by computer for content omissions and population coverage. If necessary, a telephone follow-up was made to obtain missing information. Potential coverage errors were included in this follow-up, as well as questionnaires with too many omissions to be accepted as returned.
- Processing Error -- The many phases involved in processing the survey data represent potential sources for the introduction of nonsampling error. The processing of the survey questionnaires includes the clerical editing, follow-up by telephone, and keying of data from completed questionnaires; the manual coding of write-in responses; and the electronic data processing. The various field, coding and computer operations undergo a number of quality control checks to insure their accurate application.
- Automated Editing -- After data collection was completed, any remaining incomplete or inconsistent information was imputed during the final automated edit of the collected data. Imputations, or computer assignments of acceptable codes in place of unacceptable entries or blanks, were needed most often when an entry for a given item was lacking or

when the information reported for a person or housing unit on that item was inconsistent with other information for that same person or housing unit. As in other surveys and previous censuses, the general procedure for changing unacceptable entries was to assign an entry for a person or housing unit that was consistent with entries for persons or housing units with similar characteristics. Assigning acceptable values in place of blanks or unacceptable entries enhances the usefulness of the data.

CALCULATION OF STANDARD ERRORS

Generalized Standard Errors

There are three generalized variance procedures used to calculate standard errors based on the type of estimate. For most sample estimates of *totals* and *proportions (percentages)* we use a design factor approach; for sample estimates of *aggregates, population, and housing units* we use a method we refer to as a, b, & c parameters; and for sample estimates of *means, medians, per capita amounts, and ratios (other than proportions)* we use a method we refer to as a & b parameters.

Direct Standard Errors -- Direct estimates of the standard errors were calculated for most estimates reported in this product. **They are reported for estimates of age, race, sex and Hispanic origin, and their combinations at the site and county level.** They were used in obtaining the design factors; a, b, & c parameters; and a & b parameters. The standard errors, in most cases, are calculated using standard variance estimation software using a methodology that takes into account the sample design and estimation procedures.

Use the following formulas when combining estimates that use direct standard errors only. When combining estimates that do not use direct standard errors, refer to the sections on: design factors; a, b, & c parameters; or a & b parameters depending on the type of estimate.

- Sums and Differences of Direct Standard Errors -- The standard errors estimated from these tables are for individual estimates. Additional calculations are required to estimate the standard errors for sums of and differences between two sample estimates. The estimate of the standard error of a sum or difference is approximately the square root of the sum of the two individual standard errors squared; that is, for standard errors $SE(\hat{X})$ and $SE(\hat{Y})$ of estimates \hat{X} and \hat{Y} :

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

This method, however, will underestimate (overestimate) the standard error if the two items in a sum are highly positively (negatively) correlated or if the two items in a difference are highly negatively (positively) correlated.

- Ratios of Direct Standard Errors -- Frequently, the statistic of interest is the ratio of two variables, where the numerator may or may not be a subset of the denominator. The standard error of the ratio between two sample estimates is approximated as follows:

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

Design Factor Method

The information provided in Tables A-99 through C-99 can be used to approximate the standard errors of most sample estimates of *totals* and *proportions* in the Profiles and Summary Tables. Tables A-99 and B-99 give the basic standard error for an estimate of a characteristic that would result under a simple random sampling design. The estimates are for person, family, and housing unit characteristics. Design factors by site and subject are provided in Table C-99. The term "subject" refers to a characteristic, such as age for persons and tenure for housing units. The design factors reflect the effects of the actual sample design and estimation procedures used for the 1999 American Community Survey. Details of the sample design and estimation procedures are provided elsewhere in this chapter.

To approximate the standard error of an estimate of a total or a proportion using Tables A-99 through C-99, follow the steps described later in this section. A proportion is defined as a ratio of two estimates where the numerator is a subset of the denominator. For example, the proportion of Black lawyers is the ratio of Black lawyers to all lawyers.

An inspection of the formulas used to calculate the simple random sampling standard errors suggests that when dealing with zero estimates or very small estimates of totals and percentages the standard error estimates approach zero. This is also the case for very large estimates of totals and percentages. Zero or small estimates, like any other sample estimates, are still subject to sampling variability and therefore an estimated standard error of zero or close to zero is not adequate.

For Fort Bend & Harris Counties, TX, when an estimated total is less than 400 or within 400 of the total size of the tabulation area, use a basic standard error of 87. For

estimated percentages that are less than 10 or greater than 90, use a value of 10 for \hat{p} in the formula below Table B-99.

For San Francisco County, CA; Broward County, FL; Lake County, IL; Bronx Borough, NY; and Franklin County, OH, when an estimated total is less than 100 or within 100 of the total size of the tabulation area, use a basic standard error of 44. For estimated percentages which are less than 2.5 percent or greater than 97.5 percent, use 2.5 as the value of \hat{p} in the basic standard error formula below Table B-99.

For all other counties, when an estimated total is less than 80 or within 80 of the total size of the tabulation area, use a basic standard error of 39. For estimated percentages which are less than 2 percent or greater than 98 percent, use 2 as the value of \hat{p} in the basic standard error formula below Table B-99.

Exception

There is one exception to the above method: when the denominator of a percentage is zero. (There are no sample observations available to compute an estimate of a proportion or an estimate of its standard error.) The estimate is represented in the tables by "-" and the lower and upper bounds by "***".

Use of Tables to Approximate Standard Errors

Tables A-99 through C-99 are used in the following manner to approximate standard errors:

1. Obtain the basic standard error from either Table A-99 (for an estimate of a total) or Table B-99 (for an estimate of a percentage) or use the formula given below the appropriate table. **Obtain the number of persons or number of housing units from Summary Table P1 or H1, respectively for the geography(ies) you are interested in. If the estimate is of families, households or housing units then use the number of housing units, otherwise use the number of persons.** Use these numbers to determine which column to look under in Table A-99.
2. Use Table C-99 to obtain the appropriate design factor for the characteristic; for example, educational attainment or ancestry. Multiply the basic standard error by this factor to get the ACS standard error estimate.

a, b, & c Parameter Method

The information provided in Table D-99 can be used to approximate the standard errors for estimates of *aggregates*, *total population*, and *housing units*. Use Table D-99 to obtain the appropriate a, b, & c parameters for the characteristic; for example, population or aggregate person income. To approximate the standard error use the following formula:

$$se(estimate) = \sqrt{a + b * estimate + c * estimate^2}$$

a & b Parameter Method

The information provided in Table E-99 can be used to approximate the standard errors for estimates of *means*, *medians*, *per capita amounts*, and *ratios (other than proportions)*. Use Table E-99 to obtain the appropriate a & b parameters for the characteristic; for example, mean family income or median value. To approximate the standard error use the following formula:

$$se(estimate) = \sqrt{a + b * LOG(N)}$$

Where: LOG is the natural log function and

N is the number of persons, number of housing units, or denominator from Summary Table P1, H1, or estimate respectively for the geography(ies) you are interested in. If the estimate is birth rate then use the denominator, otherwise if the estimate is of families, households or housing units then use the number of housing units, otherwise use the number of persons.

Exception

There is one exception to the above method: when the denominator of a mean, per capita amount, or other ratio is zero. (There are no sample observations available to compute an estimate or an estimate of its standard error.) The estimate is represented in the tables by "-" and the lower and upper bounds by "***".

Confidence Intervals

Confidence Intervals -- A sample estimate and its estimated standard error may be used to construct confidence intervals about the estimate. These intervals are ranges that will contain

the average value of the estimated characteristic that results over all possible samples, with a known probability.

For example, if all possible samples that could result under the 1999 ACS sample design were independently selected and surveyed under the same conditions, and if the estimate and its estimated standard error were calculated for each of these samples, then:

1. Approximately 68 percent of the intervals from one estimated standard error below the estimate to one estimated standard error above the estimate would contain the average result from all possible samples;
2. Approximately 90 percent of the intervals from 1.65 times the estimated standard error below the estimate to 1.65 times the estimated standard error above the estimate would contain the average result from all possible samples.
3. Approximately 95 percent of the intervals from two estimated standard errors below the estimate to two estimated standard errors above the estimate would contain the average result from all possible samples.

The intervals are referred to as 68 percent, 90 percent, and 95 percent confidence intervals, respectively.

Lower and Upper Bounds -- The lower and upper bounds presented in the summary tables and profiles are the bounds based upon a 90% confidence interval.

Limitations -- The user should be careful when computing and interpreting confidence intervals.

1. The estimated standard errors included in this data product do not include all portions of the variability due to nonsampling error that may be present in the data. In particular, the standard errors do not reflect the effect of correlated errors introduced by interviewers, coders, or other field or processing personnel. Thus, the standard errors calculated represent a lower bound of the total error. As a result, confidence intervals formed using these estimated standard errors may not meet the stated levels of confidence (i.e., 68, 90, or 95 percent). Thus, some care must be exercised in the interpretation of the data in this data product based on the estimated standard errors.
2. Zero or small estimates; very large estimates -- The value of almost all ACS characteristics is greater than or equal to zero by definition. For zero or small estimates, use of the method given previously for calculating confidence intervals relies on large sample theory, and may result in negative values which for most characteristics are not admissible. In

this case the lower limit of the confidence interval is set to zero by default. A similar caution holds for estimates of totals close to a control total or estimated proportions near one, where the upper limit of the confidence interval is set to its largest admissible value. In these situations the level of confidence of the adjusted range of values is less than the prescribed confidence level.

3. Small tabulation areas -- Estimates for small tabulation areas (particularly small areas with high nonresponse rate) are based on small samples. Again, using large sample theory methodology to construct confidence intervals may result in values that are not admissible for the characteristic of interest or in overstating the confidence for a given range. The user should exercise caution in the analysis of data for these areas.

EXAMPLES- STANDARD ERROR CALCULATIONS

We will present some examples based on 1999 to demonstrate the use of the formulas.

Example 1 - Total Estimate

The estimated number of males, never married is 9,958, and females, never married is 7,983 from summary table P16 in Plantation City, FL, but we are interested in the total number of people who have never been married. So the estimate of never married people is $9,958 + 7,983 = 17,941$. To determine the basic standard error, we use the formula below Table A-99. In this formula \hat{Y} is our estimate of 17,941 and N is determined from summary table P1 for Plantation City to be 81,489.

$$\text{BasicSE}(17,941) = \sqrt{\frac{95}{5} * 17,941 * \left(1 - \frac{17,941}{81,489}\right)} = 516.$$

The design factor (from Table C-99) for “Marital Status” for Broward County is 1.8. The approximate standard error estimate for the estimated number of never married people is determined by multiplying the basic standard error 516 by the design factor 1.8. This yields an estimated standard error of 929. (The level of precision on each calculation is the same as for the estimates.)

To calculate the lower and upper bounds of the 90 percent confidence interval around 17,941 using the final standard error, simply multiply 929 by 1.65, then add and subtract the product from 17,941. Thus the 90 percent confidence interval for this estimate is [17,941 - 1.65(929)] to [17,941 + 1.65(929)] or 16,408 to 19,474.

Example 2 - “Small” Total Estimate

The estimated number of married women 15 to 19 years old who had a birth in the past 12 months from summary table P18 in Plantation City, FL is 38. Since this estimate is below the small estimate cutoff for Broward County of 100, we use a basic standard error of 44.

The design factor (from Table C-99) for “Number of Women Who Had a Birth in the Past 12 Months” for Broward County is 2.1. The approximate standard error estimate for the estimated number of married women 15 to 19 years old who had a birth in the past 12 months is determined by multiplying the basic standard error 44 by the design factor 2.1. This yields an estimated standard error of 92. (The level of precision on each calculation is the same as for the estimates.)

To calculate the lower and upper bounds of the 90 percent confidence interval around 38 using the final standard error, simply multiply 92 by 1.65, then add and subtract the product from 38. Thus the 90 percent confidence interval for this estimate is found to be [38 - 1.65(92)] to [38 + 1.65(92)] or -114 to 190, but since the lower bound cannot be negative as described in the Limitations section under Confidence Intervals, the lower bound is given a value of 0. So thus the confidence interval is 0 to 190.

Example 3 - Proportion or Percentage Estimate

The estimated number of males in Plantation City, FL is 39,354 from summary table P5 and the population for the place is 81,489. So the percentage of males in Plantation City is 48.3 percent. The base of the estimated percentage is 81,489. Using the formula below Table B-99 to obtain the basic standard error, we get:

$$\text{BasicSE}(48.3) = \sqrt{\frac{95}{5 * 81,489} * 48.3 * (100 - 48.3)} = 0.8$$

The design factor for “Sex” for Broward County, FL is 2.8. Multiply 0.8 by the design factor 2.8 to approximate the ACS standard error estimate. The standard error estimate is found to be 2.2.

To calculate the lower and upper bounds of the 90 percent confidence interval around 48.3 percent using the final standard error, simply multiply 2.2 by 1.65, then add and subtract the product from 48.3. Thus the 90 percent confidence interval for this estimated percentage is [48.3 - 1.65(2.2)] to [48.3 + 1.65(2.2)] or 44.7 to 51.9.

Example 4 - Combining Geographies

We are interested in estimating the number of females in Broward County, FL in Plantation City and Sunrise City. The number of females in Plantation City is 42,135 and the number of females in Sunrise City is 40,982 from summary table P5. The total population from summary table P1 is 81,489 for Plantation City and 81,780 for Sunrise City. The total number of females in the two places is $42,135 + 40,982 = 83,117$, and the total population is $81,489 + 81,780 = 163,269$. To determine the basic standard error, we use the formula below Table A-99. In this formula \hat{Y} is our estimate of the number of females, 83,117, and N is population for the two places, 163,269.

$$\text{BasicSE}(83,117) = \sqrt{\frac{95}{5} * 83,117 * \left(1 - \frac{83,117}{163,269}\right)} = 880.$$

The design factor (from Table C-99) for “Sex” for Broward County is 2.8. The approximate standard error estimate for the estimated number of females is determined by multiplying the basic standard error 880 by the design factor 2.8. This yields an estimated standard error of 2,464. (The level of precision on each calculation is the same as for the estimates.)

To calculate the lower and upper bounds of the 90 percent confidence interval around 83,117 using the final standard error, simply multiply 2,464 by 1.65, then add and subtract the product from 83,117. Thus the 90 percent confidence interval for this estimate is $[83,117 - 1.65(2,464)]$ to $[83,117 + 1.65(2,464)]$ or 79,051 to 87,183.

Example 5 - Median Estimate

The estimated median age is 39.2 from summary table P6 for Plantation City, FL. To determine the standard error, we use the formula given in the a & b Parameter Method section. The parameters a and b (from Table E-99) for “Median Age” for Broward County are: 5.496565 and -0.385175, respectively. In this formula, N is determined from summary table P1 for Plantation City to be 81,489.

$$\text{SE}(39.2) = \sqrt{5.496565 - 0.385175 * \text{LOG}(81,489)} = 1.1.$$

To calculate the lower and upper bounds of the 90 percent confidence interval around 39.2 using the standard error, simply multiply 1.1 by 1.65, then add and subtract the product from 39.2. Thus the 90 percent confidence interval for this estimate is $[39.2 - 1.65(1.1)]$ to $[39.2 + 1.65(1.1)]$ or 37.4 to 41.0.

Example 6 - Aggregate Estimate

The estimated aggregate household income in 1999 inflation adjusted dollars is 2,123,242,956 from summary table P44 for Plantation City, FL. To determine the standard error, we use the formula given in the a, b, & c Parameter Method section. The parameters a, b, and c (from Table D-99) for “Aggregate Household Income” for Broward County are: 1936; 5,366,083.739812; and -0.000029; respectively.

$$SE(2,123,242,956) =$$

$$\sqrt{1,936 + 5,366,083.739812 * 2,123,242,956 - 0.000029 * 2,123,242,956^2}$$

$$= 106,126,165.$$

To calculate the lower and upper bounds of the 90 percent confidence interval around 2,123,242,956 using the standard error, simply multiply 106,126,165 by 1.65, then add and subtract the product from 2,123,242,956. Thus the 90 percent confidence interval for this estimate is [2,123,242,956 - 1.65(106,126,165)] to [2,123,242,956 + 1.65(106,126,165)] or 1,948,134,784 to 2,298,351,128.

Table A-99. Unadjusted Standard Error for Estimated Totals

[Based on a 5 percent simple random sample.]

Estimate ¹	Size of the publication Area ²											
	500	1,000	2,500	5,000	7,500	10,000	25,000	50,000	100,000	250,000	500,000	3,500,000
80	39	39	39	39	39	39	39	39	39	39	39	39
100	39	41	43	43	43	43	44	44	44	44	44	44
250	49	60	65	67	68	68	69	69	69	69	69	69
500	.	69	87	92	94	95	96	97	97	97	97	97
750	.	60	100	110	113	115	118	118	119	119	119	119
1,000	.	.	107	123	128	131	135	136	137	138	138	138
2,500	.	.	.	154	178	189	207	212	215	217	217	218
5,000	178	218	276	292	300	305	307	308
7,500	189	316	348	363	372	375	377
10,000	338	390	414	427	432	435
15,000	338	447	492	518	526	533
25,000	487	597	654	672	687
50,000	689	872	925	968
75,000	597	999	1101	1181
100,000	1068	1233	1359
250,000	1541	2100
500,000	2854

- 1 To get a better approximation of the standard error of an estimated total use the formula below.

$$SE(\hat{Y}) = \sqrt{\frac{95}{5} \hat{Y} \left(1 - \frac{\hat{Y}}{N}\right)}$$

N = Size of geographic area

\hat{Y} = Estimate of characteristic total

- 2 The population estimate of the tabulation area if the estimate is a person characteristic, or the estimate of housing units in the tabulation area if the estimate is a housing or family characteristic.

Table B-99. Unadjusted Standard Error in Percentage Points for Estimated Percentages

[Based on a 5 percent simple random sample.]

Estimated Percentage	Base of the Estimated Percentage ¹											
	500	750	1,000	2,500	5,000	7,500	10,000	25,000	50,000	100,000	250,000	500,000
2 or 98	2.7	2.2	1.9	1.2	0.9	0.7	0.6	0.4	0.3	0.2	0.1	0.1
2.5 or 97.5	3.0	2.5	2.2	1.4	1.0	0.8	0.7	0.4	0.3	0.2	0.1	0.1
5 or 95	4.2	3.5	3.0	1.9	1.3	1.1	1.0	0.6	0.4	0.3	0.2	0.1
10 or 90	5.8	4.8	4.1	2.6	1.8	1.5	1.3	0.8	0.6	0.4	0.3	0.2
15 or 85	7.0	5.7	4.9	3.1	2.2	1.8	1.6	1.0	0.7	0.5	0.3	0.2
20 or 80	7.8	6.4	5.5	3.5	2.5	2.0	1.7	1.1	0.8	0.6	0.3	0.2
25 or 75	8.4	6.9	6.0	3.8	2.7	2.2	1.9	1.2	0.8	0.6	0.4	0.3
30 or 70	8.9	7.3	6.3	4.0	2.8	2.3	2.0	1.3	0.9	0.6	0.4	0.3
35 or 65	9.3	7.6	6.6	4.2	2.9	2.4	2.1	1.3	0.9	0.7	0.4	0.3
40 or 60	9.5	7.8	6.8	4.3	3.0	2.5	2.1	1.4	1.0	0.7	0.4	0.3
45 or 55	9.7	7.9	6.9	4.3	3.1	2.5	2.2	1.4	1.0	0.7	0.4	0.3
50	9.7	8.0	6.9	4.4	3.1	2.5	2.2	1.4	1.0	0.7	0.4	0.3

- 1 For an estimated percentage not shown in the table, use the formula below to get standard error approximations. Use this table only for proportions, that is, where the numerator is a subset of the denominator.

$$SE(\hat{p}) = \sqrt{\frac{95}{5*B} \hat{p}(100 - \hat{p})}$$

B= Base of estimated percentage

\hat{p} = Estimated percentage

Table C-99. Standard Error Design Factors - 1999 American Community Survey -
Pima County, AZ (Page 1 of 3)

Characteristics	Design Factor
POPULATION	
Population in Households by Race of Householder/Hispanic or Latino Householder	3.8
Population in Households by Household Type and Relationship by Race of Householder/Hispanic or Latino Householder	1.9
Population in Families by Race of Householder/Hispanic or Latino Householder	4.0
Population in Subfamilies	2.4
Households/Occupied Housing Units	3.0
Families and Nonfamilies	1.8
Families by Race of Householder/Hispanic or Latino Householder	1.6
Age, Race/Hispanic or Latino by Sex by Age, and Race/Hispanic or Latino by Poverty Status by Sex by Age	1.5
Sex	2.5
Race/Hispanic or Latino by Sex	1.7
Population of One Race	10.5
Population of Two or More Races	2.2
White Alone	4.9
Black or African American Alone	2.9
American Indian and Alaska Native Alone, Asian Alone, Native Hawaiian and Other Pacific Islander Alone, or Some Other Race Alone	2.6
Hispanic or Latino	3.2
Not Hispanic or Latino	3.4
Marital Status	1.5
Relationship	1.9
Ancestry	2.4
Number of Women Who Had a Birth in the Past 12 Months	1.7
Grandparents Responsible for Grandchildren	2.1
Language Spoken at Home and Ability to Speak English	2.1
Household Language	1.8
Linguistic Isolation	1.9
Place of Birth, Year of Entry, and Citizenship Status	2.4
Residence 1 Year Ago	3.0
School Enrollment, Level of School, and Type of School	1.9
Race/Hispanic or Latino by School Enrollment and Level of School	2.0
Educational Attainment and Race/Hispanic or Latino by Sex by Educational Attainment	1.4
Veteran Status, Period of Military Service	1.5

Table C-99. Standard Error Design Factors - 1999 American Community Survey -
Pima County, AZ (Page 2 of 3)

Characteristics	Design Factor
Disability Status	1.5
Employment/Work Status and Race/Hispanic or Latino by Sex by Age by Employment Status	1.4
Industry, Occupation, Class of Worker, and Race/Hispanic or Latino by Sex by Occupation	1.6
Hours Worked per Week and Weeks Worked in the Past 12 Months	1.5
Place of Work, Travel Time to Work, and Time Leaving Home To Go To Work	1.8
Means of Transportation to Work	1.9
Private Vehicle Occupancy	1.9
Number of Workers in Family	1.5
Family Type	1.7
Family Type and Presence and Age of Own Children by Race of Householder/Hispanic or Latino Householder	1.6
Household Size, and Household Type	1.7
Presence of Own Children, Presence of People Under 18 Years, Presence of People 60 Years and Over, and Presence of People 65 Years and Over	1.6
Age of Householder	1.6
Race of Householder	1.9
Hispanic or Latino Householder	1.8
Age of Own Children by Living Arrangements	2.1
Households by Presence of Nonrelatives	2.2
Household Income and Household Income by Race of Householder/Hispanic or Latino Householder	1.5
Family & Nonfamily Income	1.5
Person Earnings	1.5
Type of Household Income (Earnings, Wage or Salary, Social Security, Supplemental Security, Public Assistance, Retirement, Self-Employment, Other Types, Interest, Dividend, or Net Rental)	1.9
Ratio of Income to Poverty Level	3.2
Poverty Status (Persons)	2.0
Race/Hispanic or Latino by Poverty Status	3.1
Race/Hispanic or Latino by Poverty Status by Sex	2.1
Poverty Status (Families/Households)	1.6
Poverty Status by Family Type and Presence and Age of Related Children by Race of Householder/Hispanic or Latino Householder	1.6
Receipt of Food Stamps	1.7
Receipt of Free or Reduced Price Meals	1.6
Household Participation in Federal Home Heating and Cooling Assistance Program	1.7

Table C-99. Standard Error Design Factors - 1999 American Community Survey -
Pima County, AZ (Page 3 of 3)

Characteristics	Design Factor
Receipt of Public Assistance Income or Noncash Benefits	1.9
HOUSING	
Occupied by Tenure	1.9
Vacant	2.0
Rooms	1.6
Bedrooms	1.6
Occupants per Room	1.5
Units in Structure	1.6
Units in Structure by Race of Householder/Hispanic or Latino Householder	1.5
Year Structure Built	1.5
Year Householder Moved Into Unit and Year Householder Moved into Unit by Race of Householder/Hispanic or Latino Householder	1.5
House Heating Fuel	1.6
Vehicles Available	1.5
Telephone Service Available	1.5
Plumbing Facilities and Kitchen Facilities	2.8
Plumbing Facilities/Kitchen Facilities by Race of Householder/Hispanic or Latino Householder	1.8
Gross Rent	1.7
Gross Rent as a Percentage Of Household Income	1.7
Meals Included in Rent	1.7
Contract Rent	1.7
Rent Asked	2.0
Inclusion of Utilities in Rent	1.7
Value	1.3
Price Asked	1.9
Mortgage Status and Selected Monthly Owner Costs	1.4
Population by Tenure	3.8

Table C-99. Standard Error Design Factors - 1999 American Community Survey -
Jefferson County, AR (Page 1 of 3)

Characteristics	Design Factor
POPULATION	
Population in Households by Race of Householder/Hispanic or Latino Householder	2.8
Population in Households by Household Type and Relationship by Race of Householder/Hispanic or Latino Householder	1.6
Population in Families by Race of Householder/Hispanic or Latino Householder	3.1
Population in Subfamilies	2.6
Households/Occupied Housing Units	2.4
Families and Nonfamilies	1.6
Families by Race of Householder/Hispanic or Latino Householder	1.3
Age, Race/Hispanic or Latino by Sex by Age, and Race/Hispanic or Latino by Poverty Status by Sex by Age	1.3
Sex	1.9
Race/Hispanic or Latino by Sex	1.4
Population of One Race	10.4
Population of Two or More Races	2.1
White Alone	2.2
Black or African American Alone	2.3
American Indian and Alaska Native Alone, Asian Alone, Native Hawaiian and Other Pacific Islander Alone, or Some Other Race Alone	1.7
Hispanic or Latino	2.2
Not Hispanic or Latino	2.9
Marital Status	1.3
Relationship	1.5
Ancestry	2.2
Number of Women Who Had a Birth in the Past 12 Months	1.7
Grandparents Responsible for Grandchildren	1.5
Language Spoken at Home and Ability to Speak English	2.0
Household Language	2.1
Linguistic Isolation	2.1
Place of Birth, Year of Entry, and Citizenship Status	2.3
Residence 1 Year Ago	3.1
School Enrollment, Level of School, and Type of School	1.7
Race/Hispanic or Latino by School Enrollment and Level of School	1.7
Educational Attainment and Race/Hispanic or Latino by Sex by Educational Attainment	1.3
Veteran Status, Period of Military Service	1.4

Table C-99. Standard Error Design Factors - 1999 American Community Survey -
Jefferson County, AR (Page 2 of 3)

Characteristics	Design Factor
Disability Status	1.3
Employment/Work Status and Race/Hispanic or Latino by Sex by Age by Employment Status	1.3
Industry, Occupation, Class of Worker, and Race/Hispanic or Latino by Sex by Occupation	1.5
Hours Worked per Week and Weeks Worked in the Past 12 Months	1.4
Place of Work, Travel Time to Work, and Time Leaving Home To Go To Work	1.7
Means of Transportation to Work	1.8
Private Vehicle Occupancy	1.8
Number of Workers in Family	1.4
Family Type	1.5
Family Type and Presence and Age of Own Children by Race of Householder/Hispanic or Latino Householder	1.4
Household Size, and Household Type	1.5
Presence of Own Children, Presence of People Under 18 Years, Presence of People 60 Years and Over, and Presence of People 65 Years and Over	1.5
Age of Householder	1.4
Race of Householder	1.4
Hispanic or Latino Householder	1.8
Age of Own Children by Living Arrangements	1.7
Households by Presence of Nonrelatives	2.0
Household Income and Household Income by Race of Householder/Hispanic or Latino Householder	1.4
Family & Nonfamily Income	1.3
Person Earnings	1.4
Type of Household Income (Earnings, Wage or Salary, Social Security, Supplemental Security, Public Assistance, Retirement, Self-Employment, Other Types, Interest, Dividend, or Net Rental)	1.7
Ratio of Income to Poverty Level	2.7
Poverty Status (Persons)	1.8
Race/Hispanic or Latino by Poverty Status	2.6
Race/Hispanic or Latino by Poverty Status by Sex	1.9
Poverty Status (Families/Households)	1.4
Poverty Status by Family Type and Presence and Age of Related Children by Race of Householder/Hispanic or Latino Householder	1.4
Receipt of Food Stamps	1.5
Receipt of Free or Reduced Price Meals	1.5
Household Participation in Federal Home Heating and Cooling Assistance Program	1.6

Table C-99. Standard Error Design Factors - 1999 American Community Survey -
 Jefferson County, AR (Page 3 of 3)

Characteristics	Design Factor
Receipt of Public Assistance Income or Noncash Benefits	1.7
HOUSING	
Occupied by Tenure	1.7
Vacant	1.8
Rooms	1.5
Bedrooms	1.6
Occupants per Room	1.5
Units in Structure	1.7
Units in Structure by Race of Householder/Hispanic or Latino Householder	1.5
Year Structure Built	1.5
Year Householder Moved Into Unit and Year Householder Moved into Unit by Race of Householder/Hispanic or Latino Householder	1.4
House Heating Fuel	1.5
Vehicles Available	1.4
Telephone Service Available	1.5
Plumbing Facilities and Kitchen Facilities	2.2
Plumbing Facilities/Kitchen Facilities by Race of Householder/Hispanic or Latino Householder	1.4
Gross Rent	1.6
Gross Rent as a Percentage Of Household Income	1.6
Meals Included in Rent	1.6
Contract Rent	1.6
Rent Asked	1.7
Inclusion of Utilities in Rent	1.6
Value	1.2
Price Asked	1.7
Mortgage Status and Selected Monthly Owner Costs	1.2
Population by Tenure	3.1

Table C-99. Standard Error Design Factors - 1999 American Community Survey -
San Francisco County, CA (Page 1 of 3)

Characteristics	Design Factor
POPULATION	
Population in Households by Race of Householder/Hispanic or Latino Householder	3.7
Population in Households by Household Type and Relationship by Race of Householder/Hispanic or Latino Householder	2.2
Population in Families by Race of Householder/Hispanic or Latino Householder	4.5
Population in Subfamilies	3.1
Households/Occupied Housing Units	5.2
Families and Nonfamilies	2.3
Families by Race of Householder/Hispanic or Latino Householder	2.0
Age, Race/Hispanic or Latino by Sex by Age, and Race/Hispanic or Latino by Poverty Status by Sex by Age	1.9
Sex	3.4
Race/Hispanic or Latino by Sex	2.4
Population of One Race	13.7
Population of Two or More Races	2.5
White Alone	3.2
Black or African American Alone	4.1
American Indian and Alaska Native Alone, Asian Alone, Native Hawaiian and Other Pacific Islander Alone, or Some Other Race Alone	4.2
Hispanic or Latino	3.4
Not Hispanic or Latino	4.3
Marital Status	2.1
Relationship	2.3
Ancestry	2.7
Number of Women Who Had a Birth in the Past 12 Months	2.2
Grandparents Responsible for Grandchildren	3.0
Language Spoken at Home and Ability to Speak English	2.5
Household Language	2.1
Linguistic Isolation	2.4
Place of Birth, Year of Entry, and Citizenship Status	2.9
Residence 1 Year Ago	3.3
School Enrollment, Level of School, and Type of School	2.5
Race/Hispanic or Latino by School Enrollment and Level of School	2.5
Educational Attainment and Race/Hispanic or Latino by Sex by Educational Attainment	1.9
Veteran Status, Period of Military Service	2.2

Table C-99. Standard Error Design Factors - 1999 American Community Survey -
San Francisco County, CA (Page 2 of 3)

Characteristics	Design Factor
Disability Status	2.1
Employment/Work Status and Race/Hispanic or Latino by Sex by Age by Employment Status	1.9
Industry, Occupation, Class of Worker, and Race/Hispanic or Latino by Sex by Occupation	2.2
Hours Worked per Week and Weeks Worked in the Past 12 Months	2.0
Place of Work, Travel Time to Work, and Time Leaving Home To Go To Work	2.4
Means of Transportation to Work	2.3
Private Vehicle Occupancy	2.5
Number of Workers in Family	1.9
Family Type	2.2
Family Type and Presence and Age of Own Children by Race of Householder/Hispanic or Latino Householder	2.0
Household Size, and Household Type	2.1
Presence of Own Children, Presence of People Under 18 Years, Presence of People 60 Years and Over, and Presence of People 65 Years and Over	2.1
Age of Householder	2.0
Race of Householder	2.2
Hispanic or Latino Householder	2.3
Age of Own Children by Living Arrangements	2.6
Households by Presence of Nonrelatives	2.6
Household Income and Household Income by Race of Householder/Hispanic or Latino Householder	1.9
Family & Nonfamily Income	1.8
Person Earnings	1.9
Type of Household Income (Earnings, Wage or Salary, Social Security, Supplemental Security, Public Assistance, Retirement, Self-Employment, Other Types, Interest, Dividend, or Net Rental)	2.8
Ratio of Income to Poverty Level	4.0
Poverty Status (Persons)	2.4
Race/Hispanic or Latino by Poverty Status	3.2
Race/Hispanic or Latino by Poverty Status by Sex	2.6
Poverty Status (Families/Households)	2.1
Poverty Status by Family Type and Presence and Age of Related Children by Race of Householder/Hispanic or Latino Householder	2.0
Receipt of Food Stamps	2.3
Receipt of Free or Reduced Price Meals	2.2
Household Participation in Federal Home Heating and Cooling Assistance Program	2.5

Table C-99. Standard Error Design Factors - 1999 American Community Survey -
 San Francisco County, CA (Page 3 of 3)

Characteristics	Design Factor
Receipt of Public Assistance Income or Noncash Benefits	2.8
HOUSING	
Occupied by Tenure	2.7
Vacant	2.4
Rooms	2.0
Bedrooms	2.1
Occupants per Room	2.1
Units in Structure	2.0
Units in Structure by Race of Householder/Hispanic or Latino Householder	1.9
Year Structure Built	2.1
Year Householder Moved Into Unit and Year Householder Moved into Unit by Race of Householder/Hispanic or Latino Householder	1.9
House Heating Fuel	2.4
Vehicles Available	2.0
Telephone Service Available	2.1
Plumbing Facilities and Kitchen Facilities	3.6
Plumbing Facilities/Kitchen Facilities by Race of Householder/Hispanic or Latino Householder	2.1
Gross Rent	2.1
Gross Rent as a Percentage Of Household Income	2.0
Meals Included in Rent	2.3
Contract Rent	2.1
Rent Asked	2.4
Inclusion of Utilities in Rent	2.3
Value	1.8
Price Asked	1.9
Mortgage Status and Selected Monthly Owner Costs	1.8
Population by Tenure	4.1

Table C-99. Standard Error Design Factors - 1999 American Community Survey -
Tulare County, CA (Page 1 of 3)

Characteristics	Design Factor
POPULATION	
Population in Households by Race of Householder/Hispanic or Latino Householder	4.3
Population in Households by Household Type and Relationship by Race of Householder/Hispanic or Latino Householder	2.4
Population in Families by Race of Householder/Hispanic or Latino Householder	4.6
Population in Subfamilies	2.4
Households/Occupied Housing Units	4.4
Families and Nonfamilies	2.2
Families by Race of Householder/Hispanic or Latino Householder	1.8
Age, Race/Hispanic or Latino by Sex by Age, and Race/Hispanic or Latino by Poverty Status by Sex by Age	1.6
Sex	3.2
Race/Hispanic or Latino by Sex	2.0
Population of One Race	16.7
Population of Two or More Races	2.2
White Alone	4.8
Black or African American Alone	3.2
American Indian and Alaska Native Alone, Asian Alone, Native Hawaiian and Other Pacific Islander Alone, or Some Other Race Alone	3.6
Hispanic or Latino	4.4
Not Hispanic or Latino	3.5
Marital Status	1.7
Relationship	2.1
Ancestry	3.0
Number of Women Who Had a Birth in the Past 12 Months	1.9
Grandparents Responsible for Grandchildren	1.9
Language Spoken at Home and Ability to Speak English	2.4
Household Language	1.9
Linguistic Isolation	2.0
Place of Birth, Year of Entry, and Citizenship Status	2.8
Residence 1 Year Ago	4.0
School Enrollment, Level of School, and Type of School	2.2
Race/Hispanic or Latino by School Enrollment and Level of School	2.3
Educational Attainment and Race/Hispanic or Latino by Sex by Educational Attainment	1.6
Veteran Status, Period of Military Service	1.7

Table C-99. Standard Error Design Factors - 1999 American Community Survey -
Tulare County, CA (Page 2 of 3)

Characteristics	Design Factor
Disability Status	1.8
Employment/Work Status and Race/Hispanic or Latino by Sex by Age by Employment Status	1.6
Industry, Occupation, Class of Worker, and Race/Hispanic or Latino by Sex by Occupation	1.8
Hours Worked per Week and Weeks Worked in the Past 12 Months	1.7
Place of Work, Travel Time to Work, and Time Leaving Home To Go To Work	2.0
Means of Transportation to Work	2.3
Private Vehicle Occupancy	2.3
Number of Workers in Family	1.6
Family Type	1.9
Family Type and Presence and Age of Own Children by Race of Householder/Hispanic or Latino Householder	1.7
Household Size, and Household Type	2.0
Presence of Own Children, Presence of People Under 18 Years, Presence of People 60 Years and Over, and Presence of People 65 Years and Over	1.8
Age of Householder	1.8
Race of Householder	2.0
Hispanic or Latino Householder	1.9
Age of Own Children by Living Arrangements	2.4
Households by Presence of Nonrelatives	2.6
Household Income and Household Income by Race of Householder/Hispanic or Latino Householder	1.6
Family & Nonfamily Income	1.5
Person Earnings	1.6
Type of Household Income (Earnings, Wage or Salary, Social Security, Supplemental Security, Public Assistance, Retirement, Self-Employment, Other Types, Interest, Dividend, or Net Rental)	2.3
Ratio of Income to Poverty Level	3.6
Poverty Status (Persons)	2.5
Race/Hispanic or Latino by Poverty Status	3.6
Race/Hispanic or Latino by Poverty Status by Sex	2.5
Poverty Status (Families/Households)	1.8
Poverty Status by Family Type and Presence and Age of Related Children by Race of Householder/Hispanic or Latino Householder	1.7
Receipt of Food Stamps	1.8
Receipt of Free or Reduced Price Meals	1.8
Household Participation in Federal Home Heating and Cooling Assistance Program	1.9

Table C-99. Standard Error Design Factors - 1999 American Community Survey -
Tulare County, CA (Page 3 of 3)

Characteristics	Design Factor
Receipt of Public Assistance Income or Noncash Benefits	2.1
HOUSING	
Occupied by Tenure	2.1
Vacant	1.8
Rooms	1.7
Bedrooms	1.8
Occupants per Room	1.7
Units in Structure	2.0
Units in Structure by Race of Householder/Hispanic or Latino Householder	1.7
Year Structure Built	1.7
Year Householder Moved Into Unit and Year Householder Moved into Unit by Race of Householder/Hispanic or Latino Householder	1.6
House Heating Fuel	2.0
Vehicles Available	1.6
Telephone Service Available	1.8
Plumbing Facilities and Kitchen Facilities	4.0
Plumbing Facilities/Kitchen Facilities by Race of Householder/Hispanic or Latino Householder	1.9
Gross Rent	1.8
Gross Rent as a Percentage Of Household Income	1.8
Meals Included in Rent	1.9
Contract Rent	1.8
Rent Asked	1.9
Inclusion of Utilities in Rent	2.0
Value	1.5
Price Asked	1.8
Mortgage Status and Selected Monthly Owner Costs	1.5
Population by Tenure	4.5

Table C-99. Standard Error Design Factors - 1999 American Community Survey -
 Broward County, FL (Page 1 of 3)

Characteristics	Design Factor
POPULATION	
Population in Households by Race of Householder/Hispanic or Latino Householder	4.1
Population in Households by Household Type and Relationship by Race of Householder/Hispanic or Latino Householder	2.3
Population in Families by Race of Householder/Hispanic or Latino Householder	4.3
Population in Subfamilies	2.7
Households/Occupied Housing Units	3.5
Families and Nonfamilies	2.1
Families by Race of Householder/Hispanic or Latino Householder	1.9
Age, Race/Hispanic or Latino by Sex by Age, and Race/Hispanic or Latino by Poverty Status by Sex by Age	1.8
Sex	2.8
Race/Hispanic or Latino by Sex	2.0
Population of One Race	16.2
Population of Two or More Races	2.6
White Alone	4.9
Black or African American Alone	4.1
American Indian and Alaska Native Alone, Asian Alone, Native Hawaiian and Other Pacific Islander Alone, or Some Other Race Alone	2.8
Hispanic or Latino	2.9
Not Hispanic or Latino	4.8
Marital Status	1.8
Relationship	2.2
Ancestry	2.9
Number of Women Who Had a Birth in the Past 12 Months	2.1
Grandparents Responsible for Grandchildren	2.3
Language Spoken at Home and Ability to Speak English	2.4
Household Language	2.1
Linguistic Isolation	2.2
Place of Birth, Year of Entry, and Citizenship Status	2.8
Residence 1 Year Ago	3.6
School Enrollment, Level of School, and Type of School	2.5
Race/Hispanic or Latino by School Enrollment and Level of School	2.5
Educational Attainment and Race/Hispanic or Latino by Sex by Educational Attainment	1.7
Veteran Status, Period of Military Service	1.9

Table C-99. Standard Error Design Factors - 1999 American Community Survey -
 Broward County, FL (Page 2 of 3)

Characteristics	Design Factor
Disability Status	1.9
Employment/Work Status and Race/Hispanic or Latino by Sex by Age by Employment Status	1.8
Industry, Occupation, Class of Worker, and Race/Hispanic or Latino by Sex by Occupation	2.0
Hours Worked per Week and Weeks Worked in the Past 12 Months	1.9
Place of Work, Travel Time to Work, and Time Leaving Home To Go To Work	2.2
Means of Transportation to Work	2.5
Private Vehicle Occupancy	2.5
Number of Workers in Family	1.8
Family Type	1.9
Family Type and Presence and Age of Own Children by Race of Householder/Hispanic or Latino Householder	1.8
Household Size, and Household Type	2.0
Presence of Own Children, Presence of People Under 18 Years, Presence of People 60 Years and Over, and Presence of People 65 Years and Over	1.9
Age of Householder	1.9
Race of Householder	2.2
Hispanic or Latino Householder	2.2
Age of Own Children by Living Arrangements	2.3
Households by Presence of Nonrelatives	2.5
Household Income and Household Income by Race of Householder/Hispanic or Latino Householder	1.8
Family & Nonfamily Income	1.8
Person Earnings	1.8
Type of Household Income (Earnings, Wage or Salary, Social Security, Supplemental Security, Public Assistance, Retirement, Self-Employment, Other Types, Interest, Dividend, or Net Rental)	2.2
Ratio of Income to Poverty Level	3.6
Poverty Status (Persons)	2.4
Race/Hispanic or Latino by Poverty Status	3.7
Race/Hispanic or Latino by Poverty Status by Sex	2.4
Poverty Status (Families/Households)	1.9
Poverty Status by Family Type and Presence and Age of Related Children by Race of Householder/Hispanic or Latino Householder	1.8
Receipt of Food Stamps	2.0
Receipt of Free or Reduced Price Meals	1.9
Household Participation in Federal Home Heating and Cooling Assistance Program	2.1

Table C-99. Standard Error Design Factors - 1999 American Community Survey -
 Broward County, FL (Page 3 of 3)

Characteristics	Design Factor
Receipt of Public Assistance Income or Noncash Benefits	2.5
HOUSING	
Occupied by Tenure	2.2
Vacant	2.4
Rooms	1.9
Bedrooms	2.0
Occupants per Room	1.9
Units in Structure	1.9
Units in Structure by Race of Householder/Hispanic or Latino Householder	1.7
Year Structure Built	1.9
Year Householder Moved Into Unit and Year Householder Moved into Unit by Race of Householder/Hispanic or Latino Householder	1.8
House Heating Fuel	2.6
Vehicles Available	1.8
Telephone Service Available	1.9
Plumbing Facilities and Kitchen Facilities	3.4
Plumbing Facilities/Kitchen Facilities by Race of Householder/Hispanic or Latino Householder	2.2
Gross Rent	2.0
Gross Rent as a Percentage Of Household Income	2.0
Meals Included in Rent	2.1
Contract Rent	2.0
Rent Asked	2.3
Inclusion of Utilities in Rent	2.1
Value	1.6
Price Asked	2.3
Mortgage Status and Selected Monthly Owner Costs	1.6
Population by Tenure	4.2

Table C-99. Standard Error Design Factors - 1999 American Community Survey -
 Lake County, IL (Page 1 of 3)

Characteristics	Design Factor
POPULATION	
Population in Households by Race of Householder/Hispanic or Latino Householder	4.6
Population in Households by Household Type and Relationship by Race of Householder/Hispanic or Latino Householder	2.2
Population in Families by Race of Householder/Hispanic or Latino Householder	5.0
Population in Subfamilies	2.5
Households/Occupied Housing Units	4.6
Families and Nonfamilies	2.1
Families by Race of Householder/Hispanic or Latino Householder	2.0
Age, Race/Hispanic or Latino by Sex by Age, and Race/Hispanic or Latino by Poverty Status by Sex by Age	1.7
Sex	2.6
Race/Hispanic or Latino by Sex	1.8
Population of One Race	17.6
Population of Two or More Races	2.1
White Alone	6.0
Black or African American Alone	3.7
American Indian and Alaska Native Alone, Asian Alone, Native Hawaiian and Other Pacific Islander Alone, or Some Other Race Alone	2.8
Hispanic or Latino	3.6
Not Hispanic or Latino	4.8
Marital Status	1.6
Relationship	2.1
Ancestry	2.6
Number of Women Who Had a Birth in the Past 12 Months	1.8
Grandparents Responsible for Grandchildren	2.1
Language Spoken at Home and Ability to Speak English	2.3
Household Language	2.1
Linguistic Isolation	2.1
Place of Birth, Year of Entry, and Citizenship Status	2.8
Residence 1 Year Ago	3.5
School Enrollment, Level of School, and Type of School	2.0
Race/Hispanic or Latino by School Enrollment and Level of School	2.3
Educational Attainment and Race/Hispanic or Latino by Sex by Educational Attainment	1.6
Veteran Status, Period of Military Service	1.7

Table C-99. Standard Error Design Factors - 1999 American Community Survey -
Lake County, IL (Page 2 of 3)

Characteristics	Design Factor
Disability Status	1.7
Employment/Work Status and Race/Hispanic or Latino by Sex by Age by Employment Status	1.6
Industry, Occupation, Class of Worker, and Race/Hispanic or Latino by Sex by Occupation	1.8
Hours Worked per Week and Weeks Worked in the Past 12 Months	1.6
Place of Work, Travel Time to Work, and Time Leaving Home To Go To Work	2.0
Means of Transportation to Work	2.3
Private Vehicle Occupancy	2.3
Number of Workers in Family	1.7
Family Type	2.0
Family Type and Presence and Age of Own Children by Race of Householder/Hispanic or Latino Householder	1.8
Household Size, and Household Type	2.0
Presence of Own Children, Presence of People Under 18 Years, Presence of People 60 Years and Over, and Presence of People 65 Years and Over	1.8
Age of Householder	1.8
Race of Householder	2.3
Hispanic or Latino Householder	2.4
Age of Own Children by Living Arrangements	2.1
Households by Presence of Nonrelatives	2.8
Household Income and Household Income by Race of Householder/Hispanic or Latino Householder	1.7
Family & Nonfamily Income	1.7
Person Earnings	1.7
Type of Household Income (Earnings, Wage or Salary, Social Security, Supplemental Security, Public Assistance, Retirement, Self-Employment, Other Types, Interest, Dividend, or Net Rental)	2.4
Ratio of Income to Poverty Level	4.3
Poverty Status (Persons)	2.3
Race/Hispanic or Latino by Poverty Status	4.2
Race/Hispanic or Latino by Poverty Status by Sex	2.4
Poverty Status (Families/Households)	1.9
Poverty Status by Family Type and Presence and Age of Related Children by Race of Householder/Hispanic or Latino Householder	1.8
Receipt of Food Stamps	1.9
Receipt of Free or Reduced Price Meals	1.8
Household Participation in Federal Home Heating and Cooling Assistance Program	2.0

Table C-99. Standard Error Design Factors - 1999 American Community Survey -
 Lake County, IL (Page 3 of 3)

Characteristics	Design Factor
Receipt of Public Assistance Income or Noncash Benefits	2.6
HOUSING	
Occupied by Tenure	2.3
Vacant	2.3
Rooms	1.7
Bedrooms	1.8
Occupants per Room	1.8
Units in Structure	1.9
Units in Structure by Race of Householder/Hispanic or Latino Householder	1.8
Year Structure Built	1.7
Year Householder Moved Into Unit and Year Householder Moved into Unit by Race of Householder/Hispanic or Latino Householder	1.7
House Heating Fuel	2.3
Vehicles Available	1.8
Telephone Service Available	1.9
Plumbing Facilities and Kitchen Facilities	4.4
Plumbing Facilities/Kitchen Facilities by Race of Householder/Hispanic or Latino Householder	2.4
Gross Rent	2.0
Gross Rent as a Percentage Of Household Income	1.9
Meals Included in Rent	2.0
Contract Rent	2.0
Rent Asked	2.4
Inclusion of Utilities in Rent	2.0
Value	1.6
Price Asked	2.1
Mortgage Status and Selected Monthly Owner Costs	1.6
Population by Tenure	4.4

Table C-99. Standard Error Design Factors - 1999 American Community Survey -
 Black Hawk County, IA (Page 1 of 3)

Characteristics	Design Factor
POPULATION	
Population in Households by Race of Householder/Hispanic or Latino Householder	3.1
Population in Households by Household Type and Relationship by Race of Householder/Hispanic or Latino Householder	1.5
Population in Families by Race of Householder/Hispanic or Latino Householder	3.1
Population in Subfamilies	1.9
Households/Occupied Housing Units	3.2
Families and Nonfamilies	1.4
Families by Race of Householder/Hispanic or Latino Householder	1.4
Age, Race/Hispanic or Latino by Sex by Age, and Race/Hispanic or Latino by Poverty Status by Sex by Age	1.1
Sex	1.6
Race/Hispanic or Latino by Sex	1.2
Population of One Race	9.3
Population of Two or More Races	1.7
White Alone	3.9
Black or African American Alone	2.4
American Indian and Alaska Native Alone, Asian Alone, Native Hawaiian and Other Pacific Islander Alone, or Some Other Race Alone	1.6
Hispanic or Latino	1.7
Not Hispanic or Latino	3.5
Marital Status	1.1
Relationship	1.4
Ancestry	1.6
Number of Women Who Had a Birth in the Past 12 Months	1.3
Grandparents Responsible for Grandchildren	1.5
Language Spoken at Home and Ability to Speak English	1.6
Household Language	1.8
Linguistic Isolation	1.5
Place of Birth, Year of Entry, and Citizenship Status	2.3
Residence 1 Year Ago	2.4
School Enrollment, Level of School, and Type of School	1.5
Race/Hispanic or Latino by School Enrollment and Level of School	1.5
Educational Attainment and Race/Hispanic or Latino by Sex by Educational Attainment	1.2
Veteran Status, Period of Military Service	1.2

Table C-99. Standard Error Design Factors - 1999 American Community Survey -
 Black Hawk County, IA (Page 2 of 3)

Characteristics	Design Factor
Disability Status	1.2
Employment/Work Status and Race/Hispanic or Latino by Sex by Age by Employment Status	1.2
Industry, Occupation, Class of Worker, and Race/Hispanic or Latino by Sex by Occupation	1.3
Hours Worked per Week and Weeks Worked in the Past 12 Months	1.2
Place of Work, Travel Time to Work, and Time Leaving Home To Go To Work	1.4
Means of Transportation to Work	1.5
Private Vehicle Occupancy	1.5
Number of Workers in Family	1.2
Family Type	1.3
Family Type and Presence and Age of Own Children by Race of Householder/Hispanic or Latino Householder	1.2
Household Size, and Household Type	1.4
Presence of Own Children, Presence of People Under 18 Years, Presence of People 60 Years and Over, and Presence of People 65 Years and Over	1.3
Age of Householder	1.3
Race of Householder	1.7
Hispanic or Latino Householder	2.0
Age of Own Children by Living Arrangements	1.5
Households by Presence of Nonrelatives	1.6
Household Income and Household Income by Race of Householder/Hispanic or Latino Householder	1.2
Family & Nonfamily Income	1.2
Person Earnings	1.2
Type of Household Income (Earnings, Wage or Salary, Social Security, Supplemental Security, Public Assistance, Retirement, Self-Employment, Other Types, Interest, Dividend, or Net Rental)	1.5
Ratio of Income to Poverty Level	2.3
Poverty Status (Persons)	1.6
Race/Hispanic or Latino by Poverty Status	2.7
Race/Hispanic or Latino by Poverty Status by Sex	1.6
Poverty Status (Families/Households)	1.3
Poverty Status by Family Type and Presence and Age of Related Children by Race of Householder/Hispanic or Latino Householder	1.3
Receipt of Food Stamps	1.3
Receipt of Free or Reduced Price Meals	1.3
Household Participation in Federal Home Heating and Cooling Assistance Program	1.4

Table C-99. Standard Error Design Factors - 1999 American Community Survey -
 Black Hawk County, IA (Page 3 of 3)

Characteristics	Design Factor
Receipt of Public Assistance Income or Noncash Benefits	1.5
HOUSING	
Occupied by Tenure	1.4
Vacant	1.6
Rooms	1.2
Bedrooms	1.3
Occupants per Room	1.3
Units in Structure	1.3
Units in Structure by Race of Householder/Hispanic or Latino Householder	1.2
Year Structure Built	1.2
Year Householder Moved Into Unit and Year Householder Moved into Unit by Race of Householder/Hispanic or Latino Householder	1.2
House Heating Fuel	1.4
Vehicles Available	1.2
Telephone Service Available	1.2
Plumbing Facilities and Kitchen Facilities	3.0
Plumbing Facilities/Kitchen Facilities by Race of Householder/Hispanic or Latino Householder	1.7
Gross Rent	1.4
Gross Rent as a Percentage Of Household Income	1.3
Meals Included in Rent	1.2
Contract Rent	1.3
Rent Asked	1.6
Inclusion of Utilities in Rent	1.3
Value	1.1
Price Asked	1.8
Mortgage Status and Selected Monthly Owner Costs	1.1
Population by Tenure	2.5

Table C-99. Standard Error Design Factors - 1999 American Community Survey -
 Calvert County, MD (Page 1 of 3)

Characteristics	Design Factor
POPULATION	
Population in Households by Race of Householder/Hispanic or Latino Householder	3.4
Population in Households by Household Type and Relationship by Race of Householder/Hispanic or Latino Householder	1.7
Population in Families by Race of Householder/Hispanic or Latino Householder	3.6
Population in Subfamilies	2.4
Households/Occupied Housing Units	3.1
Families and Nonfamilies	1.7
Families by Race of Householder/Hispanic or Latino Householder	1.4
Age, Race/Hispanic or Latino by Sex by Age, and Race/Hispanic or Latino by Poverty Status by Sex by Age	1.3
Sex	1.9
Race/Hispanic or Latino by Sex	1.3
Population of One Race	11.5
Population of Two or More Races	2.3
White Alone	3.6
Black or African American Alone	2.8
American Indian and Alaska Native Alone, Asian Alone, Native Hawaiian and Other Pacific Islander Alone, or Some Other Race Alone	2.3
Hispanic or Latino	2.2
Not Hispanic or Latino	3.1
Marital Status	1.3
Relationship	1.7
Ancestry	2.3
Number of Women Who Had a Birth in the Past 12 Months	1.6
Grandparents Responsible for Grandchildren	1.9
Language Spoken at Home and Ability to Speak English	1.9
Household Language	2.1
Linguistic Isolation	2.2
Place of Birth, Year of Entry, and Citizenship Status	1.9
Residence 1 Year Ago	3.3
School Enrollment, Level of School, and Type of School	1.7
Race/Hispanic or Latino by School Enrollment and Level of School	1.7
Educational Attainment and Race/Hispanic or Latino by Sex by Educational Attainment	1.4
Veteran Status, Period of Military Service	1.3

Table C-99. Standard Error Design Factors - 1999 American Community Survey -
Calvert County, MD

(Page 2 of 3)

Characteristics	Design Factor
Disability Status	1.4
Employment/Work Status and Race/Hispanic or Latino by Sex by Age by Employment Status	1.4
Industry, Occupation, Class of Worker, and Race/Hispanic or Latino by Sex by Occupation	1.5
Hours Worked per Week and Weeks Worked in the Past 12 Months	1.4
Place of Work, Travel Time to Work, and Time Leaving Home To Go To Work	1.6
Means of Transportation to Work	1.9
Private Vehicle Occupancy	1.9
Number of Workers in Family	1.4
Family Type	1.5
Family Type and Presence and Age of Own Children by Race of Householder/Hispanic or Latino Householder	1.4
Household Size, and Household Type	1.6
Presence of Own Children, Presence of People Under 18 Years, Presence of People 60 Years and Over, and Presence of People 65 Years and Over	1.5
Age of Householder	1.5
Race of Householder	1.7
Hispanic or Latino Householder	1.9
Age of Own Children by Living Arrangements	1.7
Households by Presence of Nonrelatives	2.1
Household Income and Household Income by Race of Householder/Hispanic or Latino Householder	1.4
Family & Nonfamily Income	1.4
Person Earnings	1.4
Type of Household Income (Earnings, Wage or Salary, Social Security, Supplemental Security, Public Assistance, Retirement, Self-Employment, Other Types, Interest, Dividend, or Net Rental)	1.9
Ratio of Income to Poverty Level	3.2
Poverty Status (Persons)	1.7
Race/Hispanic or Latino by Poverty Status	3.1
Race/Hispanic or Latino by Poverty Status by Sex	1.8
Poverty Status (Families/Households)	1.5
Poverty Status by Family Type and Presence and Age of Related Children by Race of Householder/Hispanic or Latino Householder	1.4
Receipt of Food Stamps	1.6
Receipt of Free or Reduced Price Meals	1.4
Household Participation in Federal Home Heating and Cooling Assistance Program	1.6

Table C-99. Standard Error Design Factors - 1999 American Community Survey -
 Calvert County, MD (Page 3 of 3)

Characteristics	Design Factor
Receipt of Public Assistance Income or Noncash Benefits	2.0
HOUSING	
Occupied by Tenure	2.2
Vacant	1.8
Rooms	1.5
Bedrooms	1.6
Occupants per Room	1.6
Units in Structure	2.1
Units in Structure by Race of Householder/Hispanic or Latino Householder	1.5
Year Structure Built	1.5
Year Householder Moved Into Unit and Year Householder Moved into Unit by Race of Householder/Hispanic or Latino Householder	1.4
House Heating Fuel	1.6
Vehicles Available	1.5
Telephone Service Available	1.6
Plumbing Facilities and Kitchen Facilities	3.0
Plumbing Facilities/Kitchen Facilities by Race of Householder/Hispanic or Latino Householder	1.7
Gross Rent	1.7
Gross Rent as a Percentage Of Household Income	1.6
Meals Included in Rent	1.7
Contract Rent	1.7
Rent Asked	2.3
Inclusion of Utilities in Rent	1.7
Value	1.3
Price Asked	1.6
Mortgage Status and Selected Monthly Owner Costs	1.4
Population by Tenure	4.0

Table C-99. Standard Error Design Factors - 1999 American Community Survey -
Hampden County, MA (Page 1 of 3)

Characteristics	Design Factor
POPULATION	
Population in Households by Race of Householder/Hispanic or Latino Householder	3.5
Population in Households by Household Type and Relationship by Race of Householder/Hispanic or Latino Householder	1.8
Population in Families by Race of Householder/Hispanic or Latino Householder	4.1
Population in Subfamilies	2.1
Households/Occupied Housing Units	3.6
Families and Nonfamilies	1.7
Families by Race of Householder/Hispanic or Latino Householder	1.6
Age, Race/Hispanic or Latino by Sex by Age, and Race/Hispanic or Latino by Poverty Status by Sex by Age	1.4
Sex	2.1
Race/Hispanic or Latino by Sex	1.5
Population of One Race	10.6
Population of Two or More Races	2.3
White Alone	4.8
Black or African American Alone	3.3
American Indian and Alaska Native Alone, Asian Alone, Native Hawaiian and Other Pacific Islander Alone, or Some Other Race Alone	2.9
Hispanic or Latino	3.1
Not Hispanic or Latino	3.8
Marital Status	1.4
Relationship	1.8
Ancestry	2.2
Number of Women Who Had a Birth in the Past 12 Months	1.6
Grandparents Responsible for Grandchildren	1.8
Language Spoken at Home and Ability to Speak English	1.9
Household Language	1.8
Linguistic Isolation	1.7
Place of Birth, Year of Entry, and Citizenship Status	2.4
Residence 1 Year Ago	3.0
School Enrollment, Level of School, and Type of School	1.8
Race/Hispanic or Latino by School Enrollment and Level of School	1.9
Educational Attainment and Race/Hispanic or Latino by Sex by Educational Attainment	1.4
Veteran Status, Period of Military Service	1.4

Table C-99. Standard Error Design Factors - 1999 American Community Survey -
Hampden County, MA (Page 2 of 3)

Characteristics	Design Factor
Disability Status	1.5
Employment/Work Status and Race/Hispanic or Latino by Sex by Age by Employment Status	1.4
Industry, Occupation, Class of Worker, and Race/Hispanic or Latino by Sex by Occupation	1.6
Hours Worked per Week and Weeks Worked in the Past 12 Months	1.4
Place of Work, Travel Time to Work, and Time Leaving Home To Go To Work	1.7
Means of Transportation to Work	1.9
Private Vehicle Occupancy	1.9
Number of Workers in Family	1.4
Family Type	1.6
Family Type and Presence and Age of Own Children by Race of Householder/Hispanic or Latino Householder	1.5
Household Size, and Household Type	1.6
Presence of Own Children, Presence of People Under 18 Years, Presence of People 60 Years and Over, and Presence of People 65 Years and Over	1.5
Age of Householder	1.5
Race of Householder	1.9
Hispanic or Latino Householder	2.0
Age of Own Children by Living Arrangements	1.8
Households by Presence of Nonrelatives	2.2
Household Income and Household Income by Race of Householder/Hispanic or Latino Householder	1.4
Family & Nonfamily Income	1.4
Person Earnings	1.4
Type of Household Income (Earnings, Wage or Salary, Social Security, Supplemental Security, Public Assistance, Retirement, Self-Employment, Other Types, Interest, Dividend, or Net Rental)	1.8
Ratio of Income to Poverty Level	2.9
Poverty Status (Persons)	1.9
Race/Hispanic or Latino by Poverty Status	3.1
Race/Hispanic or Latino by Poverty Status by Sex	2.0
Poverty Status (Families/Households)	1.5
Poverty Status by Family Type and Presence and Age of Related Children by Race of Householder/Hispanic or Latino Householder	1.5
Receipt of Food Stamps	1.6
Receipt of Free or Reduced Price Meals	1.5
Household Participation in Federal Home Heating and Cooling Assistance Program	1.6

Table C-99. Standard Error Design Factors - 1999 American Community Survey -
Hampden County, MA (Page 3 of 3)

Characteristics	Design Factor
Receipt of Public Assistance Income or Noncash Benefits	1.8
HOUSING	
Occupied by Tenure	1.9
Vacant	1.9
Rooms	1.5
Bedrooms	1.5
Occupants per Room	1.5
Units in Structure	1.6
Units in Structure by Race of Householder/Hispanic or Latino Householder	1.5
Year Structure Built	1.5
Year Householder Moved Into Unit and Year Householder Moved into Unit by Race of Householder/Hispanic or Latino Householder	1.4
House Heating Fuel	1.5
Vehicles Available	1.5
Telephone Service Available	1.5
Plumbing Facilities and Kitchen Facilities	3.4
Plumbing Facilities/Kitchen Facilities by Race of Householder/Hispanic or Latino Householder	2.0
Gross Rent	1.6
Gross Rent as a Percentage Of Household Income	1.6
Meals Included in Rent	1.7
Contract Rent	1.6
Rent Asked	1.9
Inclusion of Utilities in Rent	1.7
Value	1.3
Price Asked	1.8
Mortgage Status and Selected Monthly Owner Costs	1.3
Population by Tenure	3.4

Table C-99. Standard Error Design Factors - 1999 American Community Survey -
 Madison County, MS (Page 1 of 3)

Characteristics	Design Factor
POPULATION	
Population in Households by Race of Householder/Hispanic or Latino Householder	3.1
Population in Households by Household Type and Relationship by Race of Householder/Hispanic or Latino Householder	1.7
Population in Families by Race of Householder/Hispanic or Latino Householder	3.8
Population in Subfamilies	2.6
Households/Occupied Housing Units	4.1
Families and Nonfamilies	2.1
Families by Race of Householder/Hispanic or Latino Householder	1.6
Age, Race/Hispanic or Latino by Sex by Age, and Race/Hispanic or Latino by Poverty Status by Sex by Age	1.5
Sex	2.5
Race/Hispanic or Latino by Sex	1.5
Population of One Race	31.6
Population of Two or More Races	1.3
White Alone	2.6
Black or African American Alone	4.5
American Indian and Alaska Native Alone, Asian Alone, Native Hawaiian and Other Pacific Islander Alone, or Some Other Race Alone	2.5
Hispanic or Latino	2.3
Not Hispanic or Latino	3.3
Marital Status	1.6
Relationship	1.8
Ancestry	2.0
Number of Women Who Had a Birth in the Past 12 Months	1.8
Grandparents Responsible for Grandchildren	1.9
Language Spoken at Home and Ability to Speak English	2.2
Household Language	3.0
Linguistic Isolation	3.1
Place of Birth, Year of Entry, and Citizenship Status	1.9
Residence 1 Year Ago	2.9
School Enrollment, Level of School, and Type of School	1.9
Race/Hispanic or Latino by School Enrollment and Level of School	1.9
Educational Attainment and Race/Hispanic or Latino by Sex by Educational Attainment	1.5
Veteran Status, Period of Military Service	1.6

Table C-99. Standard Error Design Factors - 1999 American Community Survey -
 Madison County, MS (Page 2 of 3)

Characteristics	Design Factor
Disability Status	1.6
Employment/Work Status and Race/Hispanic or Latino by Sex by Age by Employment Status	1.5
Industry, Occupation, Class of Worker, and Race/Hispanic or Latino by Sex by Occupation	1.7
Hours Worked per Week and Weeks Worked in the Past 12 Months	1.6
Place of Work, Travel Time to Work, and Time Leaving Home To Go To Work	1.9
Means of Transportation to Work	2.0
Private Vehicle Occupancy	2.0
Number of Workers in Family	1.6
Family Type	1.8
Family Type and Presence and Age of Own Children by Race of Householder/Hispanic or Latino Householder	1.5
Household Size, and Household Type	2.0
Presence of Own Children, Presence of People Under 18 Years, Presence of People 60 Years and Over, and Presence of People 65 Years and Over	1.8
Age of Householder	1.8
Race of Householder	1.9
Hispanic or Latino Householder	2.3
Age of Own Children by Living Arrangements	1.9
Households by Presence of Nonrelatives	3.1
Household Income and Household Income by Race of Householder/Hispanic or Latino Householder	1.6
Family & Nonfamily Income	1.6
Person Earnings	1.6
Type of Household Income (Earnings, Wage or Salary, Social Security, Supplemental Security, Public Assistance, Retirement, Self-Employment, Other Types, Interest, Dividend, or Net Rental)	2.4
Ratio of Income to Poverty Level	3.6
Poverty Status (Persons)	2.0
Race/Hispanic or Latino by Poverty Status	3.2
Race/Hispanic or Latino by Poverty Status by Sex	1.9
Poverty Status (Families/Households)	1.8
Poverty Status by Family Type and Presence and Age of Related Children by Race of Householder/Hispanic or Latino Householder	1.6
Receipt of Food Stamps	1.9
Receipt of Free or Reduced Price Meals	1.8
Household Participation in Federal Home Heating and Cooling Assistance Program	2.0

Table C-99. Standard Error Design Factors - 1999 American Community Survey -
 Madison County, MS (Page 3 of 3)

Characteristics	Design Factor
Receipt of Public Assistance Income or Noncash Benefits	2.4
HOUSING	
Occupied by Tenure	2.4
Vacant	2.0
Rooms	1.7
Bedrooms	1.8
Occupants per Room	1.8
Units in Structure	1.9
Units in Structure by Race of Householder/Hispanic or Latino Householder	1.6
Year Structure Built	1.7
Year Householder Moved Into Unit and Year Householder Moved into Unit by Race of Householder/Hispanic or Latino Householder	1.7
House Heating Fuel	1.9
Vehicles Available	1.6
Telephone Service Available	1.8
Plumbing Facilities and Kitchen Facilities	3.9
Plumbing Facilities/Kitchen Facilities by Race of Householder/Hispanic or Latino Householder	1.8
Gross Rent	1.9
Gross Rent as a Percentage Of Household Income	1.9
Meals Included in Rent	2.0
Contract Rent	1.9
Rent Asked	2.0
Inclusion of Utilities in Rent	2.0
Value	1.4
Price Asked	1.8
Mortgage Status and Selected Monthly Owner Costs	1.5
Population by Tenure	4.0

Table C-99. Standard Error Design Factors - 1999 American Community Survey -
Flathead / Lake Counties, MT (Page 1 of 3)

Characteristics	Design Factor
POPULATION	
Population in Households by Race of Householder/Hispanic or Latino Householder	4.1
Population in Households by Household Type and Relationship by Race of Householder/Hispanic or Latino Householder	1.6
Population in Families by Race of Householder/Hispanic or Latino Householder	4.0
Population in Subfamilies	1.7
Households/Occupied Housing Units	2.4
Families and Nonfamilies	1.5
Families by Race of Householder/Hispanic or Latino Householder	1.5
Age, Race/Hispanic or Latino by Sex by Age, and Race/Hispanic or Latino by Poverty Status by Sex by Age	1.3
Sex	1.9
Race/Hispanic or Latino by Sex	1.4
Population of One Race	9.4
Population of Two or More Races	2.1
White Alone	4.7
Black or African American Alone	1.2
American Indian and Alaska Native Alone, Asian Alone, Native Hawaiian and Other Pacific Islander Alone, or Some Other Race Alone	2.9
Hispanic or Latino	2.3
Not Hispanic or Latino	4.1
Marital Status	1.3
Relationship	1.6
Ancestry	1.7
Number of Women Who Had a Birth in the Past 12 Months	1.5
Grandparents Responsible for Grandchildren	1.3
Language Spoken at Home and Ability to Speak English	1.9
Household Language	1.9
Linguistic Isolation	1.9
Place of Birth, Year of Entry, and Citizenship Status	2.2
Residence 1 Year Ago	2.9
School Enrollment, Level of School, and Type of School	1.7
Race/Hispanic or Latino by School Enrollment and Level of School	1.9
Educational Attainment and Race/Hispanic or Latino by Sex by Educational Attainment	1.3
Veteran Status, Period of Military Service	1.3

Table C-99. Standard Error Design Factors - 1999 American Community Survey -
Flathead / Lake Counties, MT (Page 2 of 3)

Characteristics	Design Factor
Disability Status	1.3
Employment/Work Status and Race/Hispanic or Latino by Sex by Age by Employment Status	1.3
Industry, Occupation, Class of Worker, and Race/Hispanic or Latino by Sex by Occupation	1.4
Hours Worked per Week and Weeks Worked in the Past 12 Months	1.3
Place of Work, Travel Time to Work, and Time Leaving Home To Go To Work	1.6
Means of Transportation to Work	1.7
Private Vehicle Occupancy	1.7
Number of Workers in Family	1.3
Family Type	1.5
Family Type and Presence and Age of Own Children by Race of Householder/Hispanic or Latino Householder	1.4
Household Size, and Household Type	1.5
Presence of Own Children, Presence of People Under 18 Years, Presence of People 60 Years and Over, and Presence of People 65 Years and Over	1.4
Age of Householder	1.4
Race of Householder	1.9
Hispanic or Latino Householder	2.1
Age of Own Children by Living Arrangements	1.7
Households by Presence of Nonrelatives	1.9
Household Income and Household Income by Race of Householder/Hispanic or Latino Householder	1.3
Family & Nonfamily Income	1.3
Person Earnings	1.3
Type of Household Income (Earnings, Wage or Salary, Social Security, Supplemental Security, Public Assistance, Retirement, Self-Employment, Other Types, Interest, Dividend, or Net Rental)	1.6
Ratio of Income to Poverty Level	2.6
Poverty Status (Persons)	1.7
Race/Hispanic or Latino by Poverty Status	3.1
Race/Hispanic or Latino by Poverty Status by Sex	1.8
Poverty Status (Families/Households)	1.4
Poverty Status by Family Type and Presence and Age of Related Children by Race of Householder/Hispanic or Latino Householder	1.4
Receipt of Food Stamps	1.5
Receipt of Free or Reduced Price Meals	1.4
Household Participation in Federal Home Heating and Cooling Assistance Program	1.5

Table C-99. Standard Error Design Factors - 1999 American Community Survey -
Flathead / Lake Counties, MT (Page 3 of 3)

Characteristics	Design Factor
Receipt of Public Assistance Income or Noncash Benefits	1.7
HOUSING	
Occupied by Tenure	1.8
Vacant	1.7
Rooms	1.4
Bedrooms	1.5
Occupants per Room	1.4
Units in Structure	1.7
Units in Structure by Race of Householder/Hispanic or Latino Householder	1.4
Year Structure Built	1.4
Year Householder Moved Into Unit and Year Householder Moved into Unit by Race of Householder/Hispanic or Latino Householder	1.3
House Heating Fuel	1.4
Vehicles Available	1.3
Telephone Service Available	1.4
Plumbing Facilities and Kitchen Facilities	2.3
Plumbing Facilities/Kitchen Facilities by Race of Householder/Hispanic or Latino Householder	1.9
Gross Rent	1.5
Gross Rent as a Percentage Of Household Income	1.5
Meals Included in Rent	1.6
Contract Rent	1.5
Rent Asked	1.8
Inclusion of Utilities in Rent	1.6
Value	1.2
Price Asked	1.9
Mortgage Status and Selected Monthly Owner Costs	1.2
Population by Tenure	3.5

Table C-99. Standard Error Design Factors - 1999 American Community Survey -
Douglas County, NE (Page 1 of 3)

Characteristics	Design Factor
POPULATION	
Population in Households by Race of Householder/Hispanic or Latino Householder	3.2
Population in Households by Household Type and Relationship by Race of Householder/Hispanic or Latino Householder	1.6
Population in Families by Race of Householder/Hispanic or Latino Householder	3.7
Population in Subfamilies	2.0
Households/Occupied Housing Units	3.1
Families and Nonfamilies	1.6
Families by Race of Householder/Hispanic or Latino Householder	1.5
Age, Race/Hispanic or Latino by Sex by Age, and Race/Hispanic or Latino by Poverty Status by Sex by Age	1.3
Sex	2.0
Race/Hispanic or Latino by Sex	1.4
Population of One Race	12.3
Population of Two or More Races	1.8
White Alone	4.1
Black or African American Alone	3.0
American Indian and Alaska Native Alone, Asian Alone, Native Hawaiian and Other Pacific Islander Alone, or Some Other Race Alone	2.3
Hispanic or Latino	2.4
Not Hispanic or Latino	3.8
Marital Status	1.2
Relationship	1.6
Ancestry	2.0
Number of Women Who Had a Birth in the Past 12 Months	1.5
Grandparents Responsible for Grandchildren	1.5
Language Spoken at Home and Ability to Speak English	1.8
Household Language	1.9
Linguistic Isolation	1.8
Place of Birth, Year of Entry, and Citizenship Status	2.1
Residence 1 Year Ago	2.6
School Enrollment, Level of School, and Type of School	1.6
Race/Hispanic or Latino by School Enrollment and Level of School	1.7
Educational Attainment and Race/Hispanic or Latino by Sex by Educational Attainment	1.3
Veteran Status, Period of Military Service	1.3

Table C-99. Standard Error Design Factors - 1999 American Community Survey -
Douglas County, NE (Page 2 of 3)

Characteristics	Design Factor
Disability Status	1.3
Employment/Work Status and Race/Hispanic or Latino by Sex by Age by Employment Status	1.3
Industry, Occupation, Class of Worker, and Race/Hispanic or Latino by Sex by Occupation	1.5
Hours Worked per Week and Weeks Worked in the Past 12 Months	1.3
Place of Work, Travel Time to Work, and Time Leaving Home To Go To Work	1.6
Means of Transportation to Work	1.8
Private Vehicle Occupancy	1.8
Number of Workers in Family	1.3
Family Type	1.4
Family Type and Presence and Age of Own Children by Race of Householder/Hispanic or Latino Householder	1.4
Household Size, and Household Type	1.5
Presence of Own Children, Presence of People Under 18 Years, Presence of People 60 Years and Over, and Presence of People 65 Years and Over	1.4
Age of Householder	1.4
Race of Householder	1.8
Hispanic or Latino Householder	1.9
Age of Own Children by Living Arrangements	1.6
Households by Presence of Nonrelatives	2.1
Household Income and Household Income by Race of Householder/Hispanic or Latino Householder	1.3
Family & Nonfamily Income	1.3
Person Earnings	1.3
Type of Household Income (Earnings, Wage or Salary, Social Security, Supplemental Security, Public Assistance, Retirement, Self-Employment, Other Types, Interest, Dividend, or Net Rental)	1.8
Ratio of Income to Poverty Level	2.7
Poverty Status (Persons)	1.7
Race/Hispanic or Latino by Poverty Status	3.0
Race/Hispanic or Latino by Poverty Status by Sex	1.8
Poverty Status (Families/Households)	1.4
Poverty Status by Family Type and Presence and Age of Related Children by Race of Householder/Hispanic or Latino Householder	1.4
Receipt of Food Stamps	1.5
Receipt of Free or Reduced Price Meals	1.4
Household Participation in Federal Home Heating and Cooling Assistance Program	1.5

Table C-99. Standard Error Design Factors - 1999 American Community Survey -
Douglas County, NE (Page 3 of 3)

Characteristics	Design Factor
Receipt of Public Assistance Income or Noncash Benefits	1.8
HOUSING	
Occupied by Tenure	1.5
Vacant	1.9
Rooms	1.4
Bedrooms	1.4
Occupants per Room	1.4
Units in Structure	1.4
Units in Structure by Race of Householder/Hispanic or Latino Householder	1.4
Year Structure Built	1.4
Year Householder Moved Into Unit and Year Householder Moved into Unit by Race of Householder/Hispanic or Latino Householder	1.3
House Heating Fuel	1.7
Vehicles Available	1.3
Telephone Service Available	1.4
Plumbing Facilities and Kitchen Facilities	2.9
Plumbing Facilities/Kitchen Facilities by Race of Householder/Hispanic or Latino Householder	1.9
Gross Rent	1.5
Gross Rent as a Percentage Of Household Income	1.5
Meals Included in Rent	1.6
Contract Rent	1.5
Rent Asked	1.9
Inclusion of Utilities in Rent	1.6
Value	1.2
Price Asked	1.8
Mortgage Status and Selected Monthly Owner Costs	1.2
Population by Tenure	3.1

Table C-99. Standard Error Design Factors - 1999 American Community Survey -
Bronx Borough, NY (Page 1 of 2)

Characteristics	Design Factor
POPULATION	
Households/Occupied Housing Units	5.3
Families and Nonfamilies	2.7
Age	2.1
Sex	3.8
Population of One Race	13.5
Population of Two or More Races	3.5
White Alone	3.4
Black or African American Alone	5.1
American Indian and Alaska Native Alone, Asian Alone, Native Hawaiian and Other Pacific Islander Alone, or Some Other Race Alone	4.2
Hispanic or Latino	4.3
Not Hispanic or Latino	4.5
Marital Status	2.2
Relationship	2.7
Ancestry	3.9
Number of Women Who Had a Birth in the Past 12 Months	2.5
Grandparents Responsible for Grandchildren	2.6
Language Spoken at Home and Ability to Speak English	2.7
Place of Birth, Year of Entry, and Citizenship Status	3.3
Residence in 1998	4.3
School Enrollment, Level of School, and Type of School	2.7
Educational Attainment	2.1
Veteran Status, Period of Military Service	2.4
Disability Status	2.3
Employment/Work Status	2.0
Industry, Occupation, and Class of Worker	2.4
Hours Worked per Week and Weeks Worked in the Past 12 Months	2.3
Means of Transportation to Work	2.6
Number of Workers in Family	2.1
Family Type	2.4
Household Size, and Household Type	2.5
Presence of Own Children, Presence of People Under 18 Years, Presence of People 60 Years and Over, and Presence of People 65 Years and Over	2.4

Table C-99. Standard Error Design Factors - 1999 American Community Survey -
 Bronx Borough, NY (Page 2 of 2)

Characteristics	Design Factor
Age of Householder	2.4
Age of Own Children by Living Arrangements	2.6
Household Income	2.2
Family & Nonfamily Income	2.1
Person Earnings	2.2
Type of Household Income (Earnings, Wage or Salary, Social Security, Supplemental Security, Public Assistance, Retirement, Self-Employment, Other Types, Interest, Dividend, or Net Rental)	2.7
Poverty Status (Persons)	2.8
Poverty Status (Families/Households)	2.2
Receipt of Food Stamps	2.4
Receipt of Free or Reduced Price Meals	2.2
Household Participation in Federal Home Heating and Cooling Assistance Program	2.5
Receipt of Public Assistance Income or Noncash Benefits	2.8
HOUSING	
Occupied by Tenure	3.1
Vacant	2.4
Rooms	2.3
Occupants per Room	2.4
Units in Structure	2.4
Year Structure Built	2.3
Year Householder Moved Into Unit	2.2
House Heating Fuel	2.5
Vehicles Available	2.3
Telephone Service Available	2.4
Plumbing Facilities and Kitchen Facilities	5.0
Gross Rent	2.4
Gross Rent as a Percentage Of Household Income	2.3
Value	1.7
Mortgage Status and Selected Monthly Owner Costs	1.7
Population by Tenure	4.5

Table C-99. Standard Error Design Factors - 1999 American Community Survey -
 Rockland County, NY (Page 1 of 3)

Characteristics	Design Factor
POPULATION	
Population in Households by Race of Householder/Hispanic or Latino Householder	3.7
Population in Households by Household Type and Relationship by Race of Householder/Hispanic or Latino Householder	2.1
Population in Families by Race of Householder/Hispanic or Latino Householder	4.3
Population in Subfamilies	2.2
Households/Occupied Housing Units	5.9
Families and Nonfamilies	2.1
Families by Race of Householder/Hispanic or Latino Householder	1.9
Age, Race/Hispanic or Latino by Sex by Age, and Race/Hispanic or Latino by Poverty Status by Sex by Age	1.4
Sex	2.6
Race/Hispanic or Latino by Sex	1.8
Population of One Race	13.2
Population of Two or More Races	2.4
White Alone	4.9
Black or African American Alone	3.3
American Indian and Alaska Native Alone, Asian Alone, Native Hawaiian and Other Pacific Islander Alone, or Some Other Race Alone	2.8
Hispanic or Latino	2.6
Not Hispanic or Latino	4.5
Marital Status	1.5
Relationship	2.0
Ancestry	2.6
Number of Women Who Had a Birth in the Past 12 Months	1.8
Grandparents Responsible for Grandchildren	1.9
Language Spoken at Home and Ability to Speak English	2.0
Household Language	2.0
Linguistic Isolation	1.9
Place of Birth, Year of Entry, and Citizenship Status	2.6
Residence 1 Year Ago	3.1
School Enrollment, Level of School, and Type of School	1.9
Race/Hispanic or Latino by School Enrollment and Level of School	2.0
Educational Attainment and Race/Hispanic or Latino by Sex by Educational Attainment	1.5
Veteran Status, Period of Military Service	1.7

Table C-99. Standard Error Design Factors - 1999 American Community Survey -
 Rockland County, NY (Page 2 of 3)

Characteristics	Design Factor
Disability Status	1.6
Employment/Work Status and Race/Hispanic or Latino by Sex by Age by Employment Status	1.4
Industry, Occupation, Class of Worker, and Race/Hispanic or Latino by Sex by Occupation	1.7
Hours Worked per Week and Weeks Worked in the Past 12 Months	1.6
Place of Work, Travel Time to Work, and Time Leaving Home To Go To Work	1.9
Means of Transportation to Work	2.1
Private Vehicle Occupancy	2.2
Number of Workers in Family	1.5
Family Type	1.8
Family Type and Presence and Age of Own Children by Race of Householder/Hispanic or Latino Householder	1.5
Household Size, and Household Type	1.9
Presence of Own Children, Presence of People Under 18 Years, Presence of People 60 Years and Over, and Presence of People 65 Years and Over	1.7
Age of Householder	1.7
Race of Householder	2.1
Hispanic or Latino Householder	2.2
Age of Own Children by Living Arrangements	1.9
Households by Presence of Nonrelatives	2.9
Household Income and Household Income by Race of Householder/Hispanic or Latino Householder	1.5
Family & Nonfamily Income	1.5
Person Earnings	1.4
Type of Household Income (Earnings, Wage or Salary, Social Security, Supplemental Security, Public Assistance, Retirement, Self-Employment, Other Types, Interest, Dividend, or Net Rental)	2.3
Ratio of Income to Poverty Level	3.9
Poverty Status (Persons)	2.0
Race/Hispanic or Latino by Poverty Status	3.4
Race/Hispanic or Latino by Poverty Status by Sex	2.2
Poverty Status (Families/Households)	1.7
Poverty Status by Family Type and Presence and Age of Related Children by Race of Householder/Hispanic or Latino Householder	1.6
Receipt of Food Stamps	1.8
Receipt of Free or Reduced Price Meals	1.6
Household Participation in Federal Home Heating and Cooling Assistance Program	1.9

Table C-99. Standard Error Design Factors - 1999 American Community Survey -
 Rockland County, NY (Page 3 of 3)

Characteristics	Design Factor
Receipt of Public Assistance Income or Noncash Benefits	2.6
HOUSING	
Occupied by Tenure	2.3
Vacant	2.0
Rooms	1.6
Bedrooms	1.6
Occupants per Room	1.7
Units in Structure	1.8
Units in Structure by Race of Householder/Hispanic or Latino Householder	1.6
Year Structure Built	1.6
Year Householder Moved Into Unit and Year Householder Moved into Unit by Race of Householder/Hispanic or Latino Householder	1.5
House Heating Fuel	2.3
Vehicles Available	1.6
Telephone Service Available	1.8
Plumbing Facilities and Kitchen Facilities	5.3
Plumbing Facilities/Kitchen Facilities by Race of Householder/Hispanic or Latino Householder	2.2
Gross Rent	1.7
Gross Rent as a Percentage Of Household Income	1.6
Meals Included in Rent	1.7
Contract Rent	1.7
Rent Asked	2.0
Inclusion of Utilities in Rent	1.8
Value	1.5
Price Asked	1.9
Mortgage Status and Selected Monthly Owner Costs	1.4
Population by Tenure	4.2

Table C-99. Standard Error Design Factors - 1999 American Community Survey -
Franklin County, OH (Page 1 of 3)

Characteristics	Design Factor
POPULATION	
Population in Households by Race of Householder/Hispanic or Latino Householder	4.1
Population in Households by Household Type and Relationship by Race of Householder/Hispanic or Latino Householder	2.3
Population in Families by Race of Householder/Hispanic or Latino Householder	4.7
Population in Subfamilies	2.6
Households/Occupied Housing Units	3.9
Families and Nonfamilies	2.0
Families by Race of Householder/Hispanic or Latino Householder	2.0
Age, Race/Hispanic or Latino by Sex by Age, and Race/Hispanic or Latino by Poverty Status by Sex by Age	1.7
Sex	2.6
Race/Hispanic or Latino by Sex	1.9
Population of One Race	12.6
Population of Two or More Races	2.5
White Alone	5.5
Black or African American Alone	3.7
American Indian and Alaska Native Alone, Asian Alone, Native Hawaiian and Other Pacific Islander Alone, or Some Other Race Alone	2.5
Hispanic or Latino	2.2
Not Hispanic or Latino	4.4
Marital Status	1.7
Relationship	2.2
Ancestry	2.6
Number of Women Who Had a Birth in the Past 12 Months	2.0
Grandparents Responsible for Grandchildren	2.2
Language Spoken at Home and Ability to Speak English	2.3
Household Language	2.4
Linguistic Isolation	2.3
Place of Birth, Year of Entry, and Citizenship Status	2.8
Residence 1 Year Ago	3.4
School Enrollment, Level of School, and Type of School	2.2
Race/Hispanic or Latino by School Enrollment and Level of School	2.3
Educational Attainment and Race/Hispanic or Latino by Sex by Educational Attainment	1.7
Veteran Status, Period of Military Service	1.8

Table C-99. Standard Error Design Factors - 1999 American Community Survey -
Franklin County, OH (Page 2 of 3)

Characteristics	Design Factor
Disability Status	1.8
Employment/Work Status and Race/Hispanic or Latino by Sex by Age by Employment Status	1.7
Industry, Occupation, Class of Worker, and Race/Hispanic or Latino by Sex by Occupation	1.9
Hours Worked per Week and Weeks Worked in the Past 12 Months	1.7
Place of Work, Travel Time to Work, and Time Leaving Home To Go To Work	2.1
Means of Transportation to Work	2.3
Private Vehicle Occupancy	2.3
Number of Workers in Family	1.8
Family Type	1.9
Family Type and Presence and Age of Own Children by Race of Householder/Hispanic or Latino Householder	1.8
Household Size, and Household Type	2.0
Presence of Own Children, Presence of People Under 18 Years, Presence of People 60 Years and Over, and Presence of People 65 Years and Over	1.9
Age of Householder	1.9
Race of Householder	2.3
Hispanic or Latino Householder	2.6
Age of Own Children by Living Arrangements	2.2
Households by Presence of Nonrelatives	2.5
Household Income and Household Income by Race of Householder/Hispanic or Latino Householder	1.7
Family & Nonfamily Income	1.7
Person Earnings	1.7
Type of Household Income (Earnings, Wage or Salary, Social Security, Supplemental Security, Public Assistance, Retirement, Self-Employment, Other Types, Interest, Dividend, or Net Rental)	2.4
Ratio of Income to Poverty Level	3.5
Poverty Status (Persons)	2.3
Race/Hispanic or Latino by Poverty Status	3.8
Race/Hispanic or Latino by Poverty Status by Sex	2.4
Poverty Status (Families/Households)	1.9
Poverty Status by Family Type and Presence and Age of Related Children by Race of Householder/Hispanic or Latino Householder	1.8
Receipt of Food Stamps	2.0
Receipt of Free or Reduced Price Meals	1.9
Household Participation in Federal Home Heating and Cooling Assistance Program	2.0

Table C-99. Standard Error Design Factors - 1999 American Community Survey -
Franklin County, OH (Page 3 of 3)

Characteristics	Design Factor
Receipt of Public Assistance Income or Noncash Benefits	2.5
HOUSING	
Occupied by Tenure	2.2
Vacant	2.5
Rooms	1.8
Bedrooms	1.9
Occupants per Room	1.8
Units in Structure	1.9
Units in Structure by Race of Householder/Hispanic or Latino Householder	1.8
Year Structure Built	1.8
Year Householder Moved Into Unit and Year Householder Moved into Unit by Race of Householder/Hispanic or Latino Householder	1.7
House Heating Fuel	2.1
Vehicles Available	1.8
Telephone Service Available	1.8
Plumbing Facilities and Kitchen Facilities	3.7
Plumbing Facilities/Kitchen Facilities by Race of Householder/Hispanic or Latino Householder	2.4
Gross Rent	2.0
Gross Rent as a Percentage Of Household Income	2.0
Meals Included in Rent	2.0
Contract Rent	2.0
Rent Asked	2.5
Inclusion of Utilities in Rent	2.1
Value	1.5
Price Asked	2.4
Mortgage Status and Selected Monthly Owner Costs	1.6
Population by Tenure	3.9

Table C-99. Standard Error Design Factors - 1999 American Community Survey -
Multnomah County, OR (Page 1 of 3)

Characteristics	Design Factor
POPULATION	
Population in Households by Race of Householder/Hispanic or Latino Householder	3.7
Population in Households by Household Type and Relationship by Race of Householder/Hispanic or Latino Householder	1.8
Population in Families by Race of Householder/Hispanic or Latino Householder	3.7
Population in Subfamilies	2.1
Households/Occupied Housing Units	3.4
Families and Nonfamilies	1.7
Families by Race of Householder/Hispanic or Latino Householder	1.5
Age, Race/Hispanic or Latino by Sex by Age, and Race/Hispanic or Latino by Poverty Status by Sex by Age	1.4
Sex	2.3
Race/Hispanic or Latino by Sex	1.6
Population of One Race	10.8
Population of Two or More Races	2.1
White Alone	4.5
Black or African American Alone	3.0
American Indian and Alaska Native Alone, Asian Alone, Native Hawaiian and Other Pacific Islander Alone, or Some Other Race Alone	2.3
Hispanic or Latino	2.5
Not Hispanic or Latino	3.9
Marital Status	1.4
Relationship	1.8
Ancestry	2.1
Number of Women Who Had a Birth in the Past 12 Months	1.7
Grandparents Responsible for Grandchildren	1.8
Language Spoken at Home and Ability to Speak English	1.9
Household Language	1.9
Linguistic Isolation	1.8
Place of Birth, Year of Entry, and Citizenship Status	2.3
Residence 1 Year Ago	2.7
School Enrollment, Level of School, and Type of School	1.8
Race/Hispanic or Latino by School Enrollment and Level of School	1.8
Educational Attainment and Race/Hispanic or Latino by Sex by Educational Attainment	1.4
Veteran Status, Period of Military Service	1.5

Table C-99. Standard Error Design Factors - 1999 American Community Survey -
Multnomah County, OR (Page 2 of 3)

Characteristics	Design Factor
Disability Status	1.5
Employment/Work Status and Race/Hispanic or Latino by Sex by Age by Employment Status	1.3
Industry, Occupation, Class of Worker, and Race/Hispanic or Latino by Sex by Occupation	1.5
Hours Worked per Week and Weeks Worked in the Past 12 Months	1.5
Place of Work, Travel Time to Work, and Time Leaving Home To Go To Work	1.7
Means of Transportation to Work	1.8
Private Vehicle Occupancy	1.8
Number of Workers in Family	1.4
Family Type	1.6
Family Type and Presence and Age of Own Children by Race of Householder/Hispanic or Latino Householder	1.4
Household Size, and Household Type	1.6
Presence of Own Children, Presence of People Under 18 Years, Presence of People 60 Years and Over, and Presence of People 65 Years and Over	1.5
Age of Householder	1.5
Race of Householder	2.0
Hispanic or Latino Householder	2.0
Age of Own Children by Living Arrangements	1.8
Households by Presence of Nonrelatives	2.0
Household Income and Household Income by Race of Householder/Hispanic or Latino Householder	1.4
Family & Nonfamily Income	1.4
Person Earnings	1.4
Type of Household Income (Earnings, Wage or Salary, Social Security, Supplemental Security, Public Assistance, Retirement, Self-Employment, Other Types, Interest, Dividend, or Net Rental)	1.9
Ratio of Income to Poverty Level	2.8
Poverty Status (Persons)	1.9
Race/Hispanic or Latino by Poverty Status	2.9
Race/Hispanic or Latino by Poverty Status by Sex	1.9
Poverty Status (Families/Households)	1.5
Poverty Status by Family Type and Presence and Age of Related Children by Race of Householder/Hispanic or Latino Householder	1.4
Receipt of Food Stamps	1.6
Receipt of Free or Reduced Price Meals	1.5
Household Participation in Federal Home Heating and Cooling Assistance Program	1.7

Table C-99. Standard Error Design Factors - 1999 American Community Survey -
Multnomah County, OR (Page 3 of 3)

Characteristics	Design Factor
Receipt of Public Assistance Income or Noncash Benefits	2.0
HOUSING	
Occupied by Tenure	1.8
Vacant	2.0
Rooms	1.5
Bedrooms	1.5
Occupants per Room	1.5
Units in Structure	1.6
Units in Structure by Race of Householder/Hispanic or Latino Householder	1.5
Year Structure Built	1.5
Year Householder Moved Into Unit and Year Householder Moved into Unit by Race of Householder/Hispanic or Latino Householder	1.4
House Heating Fuel	1.5
Vehicles Available	1.4
Telephone Service Available	1.5
Plumbing Facilities and Kitchen Facilities	3.1
Plumbing Facilities/Kitchen Facilities by Race of Householder/Hispanic or Latino Householder	2.0
Gross Rent	1.6
Gross Rent as a Percentage Of Household Income	1.6
Meals Included in Rent	1.6
Contract Rent	1.5
Rent Asked	2.0
Inclusion of Utilities in Rent	1.7
Value	1.3
Price Asked	1.9
Mortgage Status and Selected Monthly Owner Costs	1.3
Population by Tenure	3.3

Table C-99. Standard Error Design Factors - 1999 American Community Survey -
Schuylkill County, PA (Page 1 of 3)

Characteristics	Design Factor
POPULATION	
Population in Households by Race of Householder/Hispanic or Latino Householder	5.5
Population in Households by Household Type and Relationship by Race of Householder/Hispanic or Latino Householder	1.6
Population in Families by Race of Householder/Hispanic or Latino Householder	4.3
Population in Subfamilies	1.9
Households/Occupied Housing Units	2.9
Families and Nonfamilies	1.6
Families by Race of Householder/Hispanic or Latino Householder	1.6
Age, Race/Hispanic or Latino by Sex by Age, and Race/Hispanic or Latino by Poverty Status by Sex by Age	1.2
Sex	1.9
Race/Hispanic or Latino by Sex	1.5
Population of One Race	15.4
Population of Two or More Races	2.0
White Alone	10.2
Black or African American Alone	1.4
American Indian and Alaska Native Alone, Asian Alone, Native Hawaiian and Other Pacific Islander Alone, or Some Other Race Alone	1.7
Hispanic or Latino	2.5
Not Hispanic or Latino	7.1
Marital Status	1.3
Relationship	1.6
Ancestry	2.0
Number of Women Who Had a Birth in the Past 12 Months	1.4
Grandparents Responsible for Grandchildren	1.5
Language Spoken at Home and Ability to Speak English	1.7
Household Language	2.0
Linguistic Isolation	2.1
Place of Birth, Year of Entry, and Citizenship Status	2.4
Residence 1 Year Ago	2.8
School Enrollment, Level of School, and Type of School	1.5
Race/Hispanic or Latino by School Enrollment and Level of School	1.9
Educational Attainment and Race/Hispanic or Latino by Sex by Educational Attainment	1.3
Veteran Status, Period of Military Service	1.3

Table C-99. Standard Error Design Factors - 1999 American Community Survey -
Schuylkill County, PA (Page 2 of 3)

Characteristics	Design Factor
Disability Status	1.3
Employment/Work Status and Race/Hispanic or Latino by Sex by Age by Employment Status	1.2
Industry, Occupation, Class of Worker, and Race/Hispanic or Latino by Sex by Occupation	1.4
Hours Worked per Week and Weeks Worked in the Past 12 Months	1.3
Place of Work, Travel Time to Work, and Time Leaving Home To Go To Work	1.5
Means of Transportation to Work	1.7
Private Vehicle Occupancy	1.7
Number of Workers in Family	1.3
Family Type	1.4
Family Type and Presence and Age of Own Children by Race of Householder/Hispanic or Latino Householder	1.3
Household Size, and Household Type	1.5
Presence of Own Children, Presence of People Under 18 Years, Presence of People 60 Years and Over, and Presence of People 65 Years and Over	1.4
Age of Householder	1.4
Race of Householder	2.6
Hispanic or Latino Householder	2.7
Age of Own Children by Living Arrangements	1.5
Households by Presence of Nonrelatives	2.0
Household Income and Household Income by Race of Householder/Hispanic or Latino Householder	1.3
Family & Nonfamily Income	1.3
Person Earnings	1.3
Type of Household Income (Earnings, Wage or Salary, Social Security, Supplemental Security, Public Assistance, Retirement, Self-Employment, Other Types, Interest, Dividend, or Net Rental)	1.7
Ratio of Income to Poverty Level	2.4
Poverty Status (Persons)	1.6
Race/Hispanic or Latino by Poverty Status	3.6
Race/Hispanic or Latino by Poverty Status by Sex	1.9
Poverty Status (Families/Households)	1.4
Poverty Status by Family Type and Presence and Age of Related Children by Race of Householder/Hispanic or Latino Householder	1.4
Receipt of Food Stamps	1.5
Receipt of Free or Reduced Price Meals	1.3
Household Participation in Federal Home Heating and Cooling Assistance Program	1.5

Table C-99. Standard Error Design Factors - 1999 American Community Survey -
Schuylkill County, PA (Page 3 of 3)

Characteristics	Design Factor
Receipt of Public Assistance Income or Noncash Benefits	1.7
HOUSING	
Occupied by Tenure	1.9
Vacant	1.9
Rooms	1.4
Bedrooms	1.5
Occupants per Room	1.4
Units in Structure	1.5
Units in Structure by Race of Householder/Hispanic or Latino Householder	1.4
Year Structure Built	1.4
Year Householder Moved Into Unit and Year Householder Moved into Unit by Race of Householder/Hispanic or Latino Householder	1.3
House Heating Fuel	1.4
Vehicles Available	1.3
Telephone Service Available	1.4
Plumbing Facilities and Kitchen Facilities	2.7
Plumbing Facilities/Kitchen Facilities by Race of Householder/Hispanic or Latino Householder	2.6
Gross Rent	1.4
Gross Rent as a Percentage Of Household Income	1.4
Meals Included in Rent	1.5
Contract Rent	1.4
Rent Asked	2.0
Inclusion of Utilities in Rent	1.5
Value	1.2
Price Asked	1.7
Mortgage Status and Selected Monthly Owner Costs	1.2
Population by Tenure	3.3

Table C-99. Standard Error Design Factors - 1999 American Community Survey -
Sevier County, TN (Page 1 of 3)

Characteristics	Design Factor
POPULATION	
Population in Households by Race of Householder/Hispanic or Latino Householder	6.7
Population in Households by Household Type and Relationship by Race of Householder/Hispanic or Latino Householder	1.7
Population in Families by Race of Householder/Hispanic or Latino Householder	5.1
Population in Subfamilies	2.5
Households/Occupied Housing Units	2.8
Families and Nonfamilies	1.8
Families by Race of Householder/Hispanic or Latino Householder	1.8
Age, Race/Hispanic or Latino by Sex by Age, and Race/Hispanic or Latino by Poverty Status by Sex by Age	1.4
Sex	2.0
Race/Hispanic or Latino by Sex	1.7
Population of One Race	11.8
Population of Two or More Races	2.1
White Alone	8.9
Black or African American Alone	1.7
American Indian and Alaska Native Alone, Asian Alone, Native Hawaiian and Other Pacific Islander Alone, or Some Other Race Alone	1.8
Hispanic or Latino	3.1
Not Hispanic or Latino	6.4
Marital Status	1.5
Relationship	1.7
Ancestry	2.1
Number of Women Who Had a Birth in the Past 12 Months	1.8
Grandparents Responsible for Grandchildren	1.8
Language Spoken at Home and Ability to Speak English	2.1
Household Language	2.4
Linguistic Isolation	2.5
Place of Birth, Year of Entry, and Citizenship Status	2.4
Residence 1 Year Ago	3.0
School Enrollment, Level of School, and Type of School	1.9
Race/Hispanic or Latino by School Enrollment and Level of School	2.2
Educational Attainment and Race/Hispanic or Latino by Sex by Educational Attainment	1.5
Veteran Status, Period of Military Service	1.4

Table C-99. Standard Error Design Factors - 1999 American Community Survey -
Sevier County, TN (Page 2 of 3)

Characteristics	Design Factor
Disability Status	1.5
Employment/Work Status and Race/Hispanic or Latino by Sex by Age by Employment Status	1.4
Industry, Occupation, Class of Worker, and Race/Hispanic or Latino by Sex by Occupation	1.6
Hours Worked per Week and Weeks Worked in the Past 12 Months	1.4
Place of Work, Travel Time to Work, and Time Leaving Home To Go To Work	1.8
Means of Transportation to Work	2.0
Private Vehicle Occupancy	2.0
Number of Workers in Family	1.4
Family Type	1.6
Family Type and Presence and Age of Own Children by Race of Householder/Hispanic or Latino Householder	1.5
Household Size, and Household Type	1.7
Presence of Own Children, Presence of People Under 18 Years, Presence of People 60 Years and Over, and Presence of People 65 Years and Over	1.6
Age of Householder	1.6
Race of Householder	2.5
Hispanic or Latino Householder	2.5
Age of Own Children by Living Arrangements	1.7
Households by Presence of Nonrelatives	2.1
Household Income and Household Income by Race of Householder/Hispanic or Latino Householder	1.5
Family & Nonfamily Income	1.5
Person Earnings	1.5
Type of Household Income (Earnings, Wage or Salary, Social Security, Supplemental Security, Public Assistance, Retirement, Self-Employment, Other Types, Interest, Dividend, or Net Rental)	1.9
Ratio of Income to Poverty Level	2.9
Poverty Status (Persons)	1.9
Race/Hispanic or Latino by Poverty Status	3.7
Race/Hispanic or Latino by Poverty Status by Sex	2.1
Poverty Status (Families/Households)	1.6
Poverty Status by Family Type and Presence and Age of Related Children by Race of Householder/Hispanic or Latino Householder	1.6
Receipt of Food Stamps	1.7
Receipt of Free or Reduced Price Meals	1.5
Household Participation in Federal Home Heating and Cooling Assistance Program	1.7

Table C-99. Standard Error Design Factors - 1999 American Community Survey -
Sevier County, TN (Page 3 of 3)

Characteristics	Design Factor
Receipt of Public Assistance Income or Noncash Benefits	1.9
HOUSING	
Occupied by Tenure	2.0
Vacant	2.1
Rooms	1.6
Bedrooms	1.8
Occupants per Room	1.6
Units in Structure	1.9
Units in Structure by Race of Householder/Hispanic or Latino Householder	1.7
Year Structure Built	1.6
Year Householder Moved Into Unit and Year Householder Moved into Unit by Race of Householder/Hispanic or Latino Householder	1.5
House Heating Fuel	1.7
Vehicles Available	1.6
Telephone Service Available	1.6
Plumbing Facilities and Kitchen Facilities	2.7
Plumbing Facilities/Kitchen Facilities by Race of Householder/Hispanic or Latino Householder	2.5
Gross Rent	1.8
Gross Rent as a Percentage Of Household Income	1.7
Meals Included in Rent	1.7
Contract Rent	1.7
Rent Asked	2.1
Inclusion of Utilities in Rent	1.8
Value	1.4
Price Asked	2.0
Mortgage Status and Selected Monthly Owner Costs	1.5
Population by Tenure	3.6

Table C-99. Standard Error Design Factors - 1999 American Community Survey -
Fort Bend / Harris Counties, TX (Page 1 of 3)

Characteristics	Design Factor
POPULATION	
Population in Households by Race of Householder/Hispanic or Latino Householder	7.2
Population in Households by Household Type and Relationship by Race of Householder/Hispanic or Latino Householder	4.2
Population in Families by Race of Householder/Hispanic or Latino Householder	7.9
Population in Subfamilies	4.7
Households/Occupied Housing Units	7.2
Families and Nonfamilies	4.1
Families by Race of Householder/Hispanic or Latino Householder	3.5
Age, Race/Hispanic or Latino by Sex by Age, and Race/Hispanic or Latino by Poverty Status by Sex by Age	3.2
Sex	5.2
Race/Hispanic or Latino by Sex	3.7
Population of One Race	22.7
Population of Two or More Races	4.3
White Alone	8.6
Black or African American Alone	7.4
American Indian and Alaska Native Alone, Asian Alone, Native Hawaiian and Other Pacific Islander Alone, or Some Other Race Alone	5.7
Hispanic or Latino	7.1
Not Hispanic or Latino	6.9
Marital Status	3.2
Relationship	4.1
Ancestry	5.3
Number of Women Who Had a Birth in the Past 12 Months	3.6
Grandparents Responsible for Grandchildren	3.9
Language Spoken at Home and Ability to Speak English	4.4
Household Language	4.0
Linguistic Isolation	3.9
Place of Birth, Year of Entry, and Citizenship Status	5.3
Residence 1 Year Ago	6.8
School Enrollment, Level of School, and Type of School	4.2
Race/Hispanic or Latino by School Enrollment and Level of School	4.3
Educational Attainment and Race/Hispanic or Latino by Sex by Educational Attainment	3.1
Veteran Status, Period of Military Service	3.4

Table C-99. Standard Error Design Factors - 1999 American Community Survey -
Fort Bend / Harris Counties, TX (Page 2 of 3)

Characteristics	Design Factor
Disability Status	3.3
Employment/Work Status and Race/Hispanic or Latino by Sex by Age by Employment Status	3.0
Industry, Occupation, Class of Worker, and Race/Hispanic or Latino by Sex by Occupation	3.5
Hours Worked per Week and Weeks Worked in the Past 12 Months	3.3
Place of Work, Travel Time to Work, and Time Leaving Home To Go To Work	3.9
Means of Transportation to Work	4.4
Private Vehicle Occupancy	4.3
Number of Workers in Family	3.3
Family Type	3.8
Family Type and Presence and Age of Own Children by Race of Householder/Hispanic or Latino Householder	3.3
Household Size, and Household Type	3.9
Presence of Own Children, Presence of People Under 18 Years, Presence of People 60 Years and Over, and Presence of People 65 Years and Over	3.6
Age of Householder	3.6
Race of Householder	4.0
Hispanic or Latino Householder	4.0
Age of Own Children by Living Arrangements	4.1
Households by Presence of Nonrelatives	5.1
Household Income and Household Income by Race of Householder/Hispanic or Latino Householder	3.2
Family & Nonfamily Income	3.2
Person Earnings	3.2
Type of Household Income (Earnings, Wage or Salary, Social Security, Supplemental Security, Public Assistance, Retirement, Self-Employment, Other Types, Interest, Dividend, or Net Rental)	4.8
Ratio of Income to Poverty Level	7.0
Poverty Status (Persons)	4.3
Race/Hispanic or Latino by Poverty Status	6.9
Race/Hispanic or Latino by Poverty Status by Sex	4.5
Poverty Status (Families/Households)	3.5
Poverty Status by Family Type and Presence and Age of Related Children by Race of Householder/Hispanic or Latino Householder	3.3
Receipt of Food Stamps	3.7
Receipt of Free or Reduced Price Meals	3.5
Household Participation in Federal Home Heating and Cooling Assistance Program	3.9

Table C-99. Standard Error Design Factors - 1999 American Community Survey -
Fort Bend / Harris Counties, TX (Page 3 of 3)

Characteristics	Design Factor
Receipt of Public Assistance Income or Noncash Benefits	4.5
HOUSING	
Occupied by Tenure	4.4
Vacant	4.2
Rooms	3.4
Bedrooms	3.6
Occupants per Room	3.5
Units in Structure	3.7
Units in Structure by Race of Householder/Hispanic or Latino Householder	3.4
Year Structure Built	3.4
Year Householder Moved Into Unit and Year Householder Moved into Unit by Race of Householder/Hispanic or Latino Householder	3.3
House Heating Fuel	3.9
Vehicles Available	3.4
Telephone Service Available	3.6
Plumbing Facilities and Kitchen Facilities	6.4
Plumbing Facilities/Kitchen Facilities by Race of Householder/Hispanic or Latino Householder	3.9
Gross Rent	3.8
Gross Rent as a Percentage Of Household Income	3.7
Meals Included in Rent	4.0
Contract Rent	3.8
Rent Asked	4.2
Inclusion of Utilities in Rent	4.1
Value	2.8
Price Asked	3.9
Mortgage Status and Selected Monthly Owner Costs	2.9
Population by Tenure	7.9

Table C-99. Standard Error Design Factors - 1999 American Community Survey -
 Starr / Zapata Counties, TX (Page 1 of 3)

Characteristics	Design Factor
POPULATION	
Population in Households by Race of Householder/Hispanic or Latino Householder	4.5
Population in Households by Household Type and Relationship by Race of Householder/Hispanic or Latino Householder	2.4
Population in Families by Race of Householder/Hispanic or Latino Householder	5.2
Population in Subfamilies	2.6
Households/Occupied Housing Units	3.1
Families and Nonfamilies	2.3
Families by Race of Householder/Hispanic or Latino Householder	2.0
Age, Race/Hispanic or Latino by Sex by Age, and Race/Hispanic or Latino by Poverty Status by Sex by Age	1.7
Sex	3.0
Race/Hispanic or Latino by Sex	2.2
Population of One Race	18.4
Population of Two or More Races	2.3
White Alone	5.2
Black or African American Alone	4.0
American Indian and Alaska Native Alone, Asian Alone, Native Hawaiian and Other Pacific Islander Alone, or Some Other Race Alone	4.0
Hispanic or Latino	5.2
Not Hispanic or Latino	2.3
Marital Status	1.8
Relationship	2.2
Ancestry	3.3
Number of Women Who Had a Birth in the Past 12 Months	1.9
Grandparents Responsible for Grandchildren	2.2
Language Spoken at Home and Ability to Speak English	2.4
Household Language	2.6
Linguistic Isolation	2.1
Place of Birth, Year of Entry, and Citizenship Status	3.1
Residence 1 Year Ago	3.4
School Enrollment, Level of School, and Type of School	2.1
Race/Hispanic or Latino by School Enrollment and Level of School	2.5
Educational Attainment and Race/Hispanic or Latino by Sex by Educational Attainment	1.7
Veteran Status, Period of Military Service	2.0

Table C-99. Standard Error Design Factors - 1999 American Community Survey -
 Starr / Zapata Counties, TX (Page 2 of 3)

Characteristics	Design Factor
Disability Status	1.8
Employment/Work Status and Race/Hispanic or Latino by Sex by Age by Employment Status	1.7
Industry, Occupation, Class of Worker, and Race/Hispanic or Latino by Sex by Occupation	1.9
Hours Worked per Week and Weeks Worked in the Past 12 Months	1.9
Place of Work, Travel Time to Work, and Time Leaving Home To Go To Work	2.1
Means of Transportation to Work	2.2
Private Vehicle Occupancy	2.2
Number of Workers in Family	1.8
Family Type	1.9
Family Type and Presence and Age of Own Children by Race of Householder/Hispanic or Latino Householder	1.8
Household Size, and Household Type	2.1
Presence of Own Children, Presence of People Under 18 Years, Presence of People 60 Years and Over, and Presence of People 65 Years and Over	1.9
Age of Householder	1.9
Race of Householder	2.1
Hispanic or Latino Householder	2.1
Age of Own Children by Living Arrangements	2.3
Households by Presence of Nonrelatives	2.8
Household Income and Household Income by Race of Householder/Hispanic or Latino Householder	1.7
Family & Nonfamily Income	1.7
Person Earnings	1.8
Type of Household Income (Earnings, Wage or Salary, Social Security, Supplemental Security, Public Assistance, Retirement, Self-Employment, Other Types, Interest, Dividend, or Net Rental)	2.2
Ratio of Income to Poverty Level	3.7
Poverty Status (Persons)	2.4
Race/Hispanic or Latino by Poverty Status	4.0
Race/Hispanic or Latino by Poverty Status by Sex	2.7
Poverty Status (Families/Households)	1.8
Poverty Status by Family Type and Presence and Age of Related Children by Race of Householder/Hispanic or Latino Householder	1.8
Receipt of Food Stamps	1.9
Receipt of Free or Reduced Price Meals	1.8
Household Participation in Federal Home Heating and Cooling Assistance Program	2.0

Table C-99. Standard Error Design Factors - 1999 American Community Survey -
 Starr / Zapata Counties, TX (Page 3 of 3)

Characteristics	Design Factor
Receipt of Public Assistance Income or Noncash Benefits	2.0
HOUSING	
Occupied by Tenure	2.6
Vacant	1.7
Rooms	1.8
Bedrooms	1.9
Occupants per Room	1.9
Units in Structure	2.4
Units in Structure by Race of Householder/Hispanic or Latino Householder	2.0
Year Structure Built	1.8
Year Householder Moved Into Unit and Year Householder Moved into Unit by Race of Householder/Hispanic or Latino Householder	1.8
House Heating Fuel	2.1
Vehicles Available	1.9
Telephone Service Available	2.0
Plumbing Facilities and Kitchen Facilities	2.8
Plumbing Facilities/Kitchen Facilities by Race of Householder/Hispanic or Latino Householder	2.2
Gross Rent	1.8
Gross Rent as a Percentage Of Household Income	1.8
Meals Included in Rent	1.7
Contract Rent	1.7
Rent Asked	1.8
Inclusion of Utilities in Rent	1.9
Value	1.7
Price Asked	1.7
Mortgage Status and Selected Monthly Owner Costs	1.7
Population by Tenure	5.5

Table C-99. Standard Error Design Factors - 1999 American Community Survey -
 Yakima County, WA (Page 1 of 3)

Characteristics	Design Factor
POPULATION	
Population in Households by Race of Householder/Hispanic or Latino Householder	3.8
Population in Households by Household Type and Relationship by Race of Householder/Hispanic or Latino Householder	2.1
Population in Families by Race of Householder/Hispanic or Latino Householder	4.0
Population in Subfamilies	2.3
Households/Occupied Housing Units	4.0
Families and Nonfamilies	1.8
Families by Race of Householder/Hispanic or Latino Householder	1.6
Age, Race/Hispanic or Latino by Sex by Age, and Race/Hispanic or Latino by Poverty Status by Sex by Age	1.5
Sex	2.5
Race/Hispanic or Latino by Sex	1.7
Population of One Race	9.7
Population of Two or More Races	2.5
White Alone	3.3
Black or African American Alone	3.2
American Indian and Alaska Native Alone, Asian Alone, Native Hawaiian and Other Pacific Islander Alone, or Some Other Race Alone	3.6
Hispanic or Latino	4.0
Not Hispanic or Latino	3.2
Marital Status	1.5
Relationship	1.9
Ancestry	2.4
Number of Women Who Had a Birth in the Past 12 Months	1.7
Grandparents Responsible for Grandchildren	2.0
Language Spoken at Home and Ability to Speak English	2.1
Household Language	1.8
Linguistic Isolation	1.8
Place of Birth, Year of Entry, and Citizenship Status	2.9
Residence 1 Year Ago	3.3
School Enrollment, Level of School, and Type of School	2.0
Race/Hispanic or Latino by School Enrollment and Level of School	2.2
Educational Attainment and Race/Hispanic or Latino by Sex by Educational Attainment	1.5
Veteran Status, Period of Military Service	1.5

Table C-99. Standard Error Design Factors - 1999 American Community Survey -
 Yakima County, WA (Page 2 of 3)

Characteristics	Design Factor
Disability Status	1.6
Employment/Work Status and Race/Hispanic or Latino by Sex by Age by Employment Status	1.5
Industry, Occupation, Class of Worker, and Race/Hispanic or Latino by Sex by Occupation	1.6
Hours Worked per Week and Weeks Worked in the Past 12 Months	1.5
Place of Work, Travel Time to Work, and Time Leaving Home To Go To Work	1.9
Means of Transportation to Work	2.0
Private Vehicle Occupancy	2.0
Number of Workers in Family	1.5
Family Type	1.7
Family Type and Presence and Age of Own Children by Race of Householder/Hispanic or Latino Householder	1.5
Household Size, and Household Type	1.8
Presence of Own Children, Presence of People Under 18 Years, Presence of People 60 Years and Over, and Presence of People 65 Years and Over	1.6
Age of Householder	1.6
Race of Householder	1.8
Hispanic or Latino Householder	1.8
Age of Own Children by Living Arrangements	2.1
Households by Presence of Nonrelatives	2.3
Household Income and Household Income by Race of Householder/Hispanic or Latino Householder	1.5
Family & Nonfamily Income	1.4
Person Earnings	1.5
Type of Household Income (Earnings, Wage or Salary, Social Security, Supplemental Security, Public Assistance, Retirement, Self-Employment, Other Types, Interest, Dividend, or Net Rental)	2.0
Ratio of Income to Poverty Level	3.3
Poverty Status (Persons)	2.2
Race/Hispanic or Latino by Poverty Status	3.4
Race/Hispanic or Latino by Poverty Status by Sex	2.2
Poverty Status (Families/Households)	1.6
Poverty Status by Family Type and Presence and Age of Related Children by Race of Householder/Hispanic or Latino Householder	1.5
Receipt of Food Stamps	1.7
Receipt of Free or Reduced Price Meals	1.6
Household Participation in Federal Home Heating and Cooling Assistance Program	1.7

Table C-99. Standard Error Design Factors - 1999 American Community Survey -
 Yakima County, WA (Page 3 of 3)

Characteristics	Design Factor
Receipt of Public Assistance Income or Noncash Benefits	1.9
HOUSING	
Occupied by Tenure	1.9
Vacant	2.0
Rooms	1.6
Bedrooms	1.7
Occupants per Room	1.6
Units in Structure	1.7
Units in Structure by Race of Householder/Hispanic or Latino Householder	1.5
Year Structure Built	1.5
Year Householder Moved Into Unit and Year Householder Moved into Unit by Race of Householder/Hispanic or Latino Householder	1.5
House Heating Fuel	1.6
Vehicles Available	1.5
Telephone Service Available	1.6
Plumbing Facilities and Kitchen Facilities	3.7
Plumbing Facilities/Kitchen Facilities by Race of Householder/Hispanic or Latino Householder	1.8
Gross Rent	1.7
Gross Rent as a Percentage Of Household Income	1.6
Meals Included in Rent	1.7
Contract Rent	1.7
Rent Asked	1.9
Inclusion of Utilities in Rent	1.8
Value	1.4
Price Asked	2.0
Mortgage Status and Selected Monthly Owner Costs	1.4
Population by Tenure	4.0

Table D-99 a, b, & c Parameters - 1999 American Community Survey -
Pima County, AZ

Characteristics	a	b	c
POPULATION			
Population/Household Population	1521	113.688603	-0.000168
Aggregate Travel Time to Work (In Minutes)- Total	1521	1,356.662471	-0.000019
Aggregate Travel Time to Work (In Minutes) by Travel Time to Work	1521	3,960.819189	-0.000997
Aggregate Travel Time to Work (In Minutes)- Public Transportation and Less Than 30 Minutes	1521	1,139.940269	-0.001551
Aggregate Travel Time to Work (In Minutes)- Public Transportation and More Than 30 Minutes	1521	1,983.890904	0.013090
Aggregate Travel Time to Work (In Minutes)-Other Means	1521	3,765.943708	-0.000953
Aggregate Household Income	1521	-1.133288	0.000250
Aggregate Household Earnings	1521	930,092.801030	0.000079
Aggregate Household Social Security Income	1521	326,513.121119	-0.000117
Aggregate Household Retirement Income	1521	965,644.676163	-0.000096
Aggregate Household Supplemental Security Income	1521	176,408.710282	0.002394
Aggregate Household Public Assistance Income	1521	282,177.569203	-0.002315
Aggregate Household Wage or Salary Income	1521	918,948.995132	0.000077
Aggregate Household Self-Employment Income	1521	1,574,866.220301	0.002888
Aggregate Household Food Stamp Benefits	1521	169,697.141935	0.000111
Aggregate Family Income- Total	1521	72,554.594335	0.000381
Aggregate Family Income- No Workers	1521	-7.284915	0.008964
Aggregate Family Income by Number of Workers	1521	3,405,053.026602	-0.000022
Aggregate Nonfamily Income	1521	154,675.988821	0.000835
Aggregate Person Income	1521	-0.975156	0.000190
HOUSING			
Housing Units	1521	19.366314	-0.000022

Table D-99 a, b, & c Parameters - 1999 American Community Survey -
Jefferson County, AR

Characteristics	a	b	c
POPULATION			
Population/Household Population	1521	61.799840	-0.000938
Aggregate Travel Time to Work (In Minutes)- Total	1521	1,428.719414	-0.000847
Aggregate Travel Time to Work (In Minutes) by Travel Time to Work	1521	1,113.630674	-0.002119
Aggregate Travel Time to Work (In Minutes)- Public Transportation and Less Than 30 Minutes	1521	687.696065	-0.024547
Aggregate Travel Time to Work (In Minutes)- Public Transportation and More Than 30 Minutes	1521	428.027639	0.514066
Aggregate Travel Time to Work (In Minutes)-Other Means	1521	1,115.771371	-0.002144
Aggregate Household Income	1521	1,613,974.290083	-0.000836
Aggregate Household Earnings	1521	1,764,213.988848	-0.000935
Aggregate Household Social Security Income	1521	278,661.223222	-0.001527
Aggregate Household Retirement Income	1521	550,712.879367	-0.005077
Aggregate Household Supplemental Security Income	1521	374,841.093514	-0.014115
Aggregate Household Public Assistance Income	1521	61,095.476884	0.003473
Aggregate Household Wage or Salary Income	1521	1,750,124.350540	-0.000956
Aggregate Household Self-Employment Income	1521	957,593.937150	0.021864
Aggregate Household Food Stamp Benefits	1521	239,437.063563	-0.010235
Aggregate Family Income- Total	1521	1,937,606.505645	-0.001164
Aggregate Family Income- No Workers	1521	764,641.951110	0.001538
Aggregate Family Income by Number of Workers	1521	2,044,660.922120	-0.000651
Aggregate Nonfamily Income	1521	1,449,147.004105	0.001330
Aggregate Person Income	1521	1,474,026.274174	-0.000854
HOUSING			
Housing Units	1521	15.923114	-0.000004

Table D-99 a, b, & c Parameters - 1999 American Community Survey -
San Francisco County, CA

Characteristics	a	b	c
POPULATION			
Population/Household Population	1936	255.647018	0.006894
Aggregate Travel Time to Work (In Minutes)- Total	1936	7,023.041967	-0.000471
Aggregate Travel Time to Work (In Minutes) by Travel Time to Work	1936	8,088.785997	-0.001727
Aggregate Travel Time to Work (In Minutes)- Public Transportation and Less Than 30 Minutes	1936	2,174.294385	-0.001023
Aggregate Travel Time to Work (In Minutes)- Public Transportation and More Than 30 Minutes	1936	9,556.398852	-0.003988
Aggregate Travel Time to Work (In Minutes)-Other Means	1936	9,185.739038	-0.003466
Aggregate Household Income	1936	5,819,650.945718	0.000065
Aggregate Household Earnings	1936	6,433,912.963076	0.000000
Aggregate Household Social Security Income	1936	712,360.631357	-0.000354
Aggregate Household Retirement Income	1936	1,239,159.854630	0.000256
Aggregate Household Supplemental Security Income	1936	783,379.530051	-0.001210
Aggregate Household Public Assistance Income	1936	1,213,198.214038	-0.003178
Aggregate Household Wage or Salary Income	1936	6,307,858.160780	-0.000063
Aggregate Household Self-Employment Income	1936	5,610,953.258560	0.000624
Aggregate Household Food Stamp Benefits	1936	632,698.107693	-0.027982
Aggregate Family Income- Total	1936	6,251,757.955924	0.000015
Aggregate Family Income- No Workers	1936	2,151,994.483075	0.002595
Aggregate Family Income by Number of Workers	1936	11,300,767.093911	-0.000656
Aggregate Nonfamily Income	1936	5,978,137.027443	0.000088
Aggregate Person Income	1936	5,568,634.400084	0.000072
HOUSING			
Housing Units	1936	53.271609	-0.000092

Table D-99 a, b, & c Parameters - 1999 American Community Survey -
Tulare County, CA

Characteristics	a	b	c
POPULATION			
Population/Household Population	1521	239.060962	-0.001239
Aggregate Travel Time to Work (In Minutes)- Total	1521	2,512.711036	-0.000363
Aggregate Travel Time to Work (In Minutes) by Travel Time to Work	1521	2,077.298578	-0.001361
Aggregate Travel Time to Work (In Minutes)- Public Transportation and Less Than 30 Minutes	1521	1,116.262494	-0.179088
Aggregate Travel Time to Work (In Minutes)- Public Transportation and More Than 30 Minutes	1521	2,242.518470	0.019479
Aggregate Travel Time to Work (In Minutes)-Other Means	1521	4,330.620353	-0.003356
Aggregate Household Income	1521	4,692,585.533067	-0.000615
Aggregate Household Earnings	1521	5,043,105.733319	-0.000761
Aggregate Household Social Security Income	1521	394,729.535433	-0.000374
Aggregate Household Retirement Income	1521	903,047.856239	0.000570
Aggregate Household Supplemental Security Income	1521	679,547.568498	0.000803
Aggregate Household Public Assistance Income	1521	413,548.872240	-0.001283
Aggregate Household Wage or Salary Income	1521	4,231,489.298855	-0.000689
Aggregate Household Self-Employment Income	1521	2,471,266.498614	0.007083
Aggregate Household Food Stamp Benefits	1521	154,679.576305	-0.000224
Aggregate Family Income- Total	1521	5,426,111.451042	-0.000767
Aggregate Family Income- No Workers	1521	1,200,631.556329	-0.000543
Aggregate Family Income by Number of Workers	1521	5,116,295.858444	-0.000943
Aggregate Nonfamily Income	1521	1,251,642.515911	0.002748
Aggregate Person Income	1521	3,867,258.734986	-0.000426
HOUSING			
Housing Units	1521	39.343458	-0.000247

Table D-99 a, b, & c Parameters - 1999 American Community Survey -
Broward County, FL

Characteristics	a	b	c
POPULATION			
Population/Household Population	1936	99.248877	0.000140
Aggregate Travel Time to Work (In Minutes)- Total	1936	2,964.142535	-0.000101
Aggregate Travel Time to Work (In Minutes) by Travel Time to Work	1936	3,166.033334	-0.000328
Aggregate Travel Time to Work (In Minutes)- Public Transportation and Less Than 30 Minutes	1936	902.374906	0.012965
Aggregate Travel Time to Work (In Minutes)- Public Transportation and More Than 30 Minutes	1936	1,797.128067	0.014180
Aggregate Travel Time to Work (In Minutes)-Other Means	1936	2,211.945608	-0.000233
Aggregate Household Income	1936	5,366,083.739812	-0.000029
Aggregate Household Earnings	1936	4,700,657.971561	-0.000051
Aggregate Household Social Security Income	1936	499,493.117735	-0.000103
Aggregate Household Retirement Income	1936	1,512,225.614393	-0.000083
Aggregate Household Supplemental Security Income	1936	532,526.794060	0.000043
Aggregate Household Public Assistance Income	1936	304,682.936302	-0.000505
Aggregate Household Wage or Salary Income	1936	3,960,499.575210	-0.000033
Aggregate Household Self-Employment Income	1936	3,137,639.479404	0.001885
Aggregate Household Food Stamp Benefits	1936	187,535.199731	0.000647
Aggregate Family Income- Total	1936	6,097,781.964508	-0.000047
Aggregate Family Income- No Workers	1936	3,310,379.537258	-0.000574
Aggregate Family Income by Number of Workers	1936	3,757,593.132711	0.000376
Aggregate Nonfamily Income	1936	3,561,761.330499	0.000154
Aggregate Person Income	1936	5,457,505.066648	-0.000062
HOUSING			
Housing Units	1936	37.053135	-0.000029

Table D-99 a, b, & c Parameters - 1999 American Community Survey -
Lake County, IL

Characteristics	a	b	c
POPULATION			
Population/Household Population	1936	89.278113	0.000133
Aggregate Travel Time to Work (In Minutes)- Total	1936	2,323.468649	-0.000136
Aggregate Travel Time to Work (In Minutes) by Travel Time to Work	1936	1,963.350351	0.000550
Aggregate Travel Time to Work (In Minutes)- Public Transportation and Less Than 30 Minutes	1936	933.755564	-0.013546
Aggregate Travel Time to Work (In Minutes)- Public Transportation and More Than 30 Minutes	1936	4,559.080536	-0.000729
Aggregate Travel Time to Work (In Minutes)-Other Means	1936	3,505.072528	-0.000741
Aggregate Household Income	1936	4,036,468.042610	-0.000025
Aggregate Household Earnings	1936	5,772,014.343615	-0.000174
Aggregate Household Social Security Income	1936	697,381.224120	-0.000759
Aggregate Household Retirement Income	1936	2,652,519.850867	0.000819
Aggregate Household Supplemental Security Income	1936	473,274.857037	0.006116
Aggregate Household Public Assistance Income	1936	481,797.590085	-0.008295
Aggregate Household Wage or Salary Income	1936	5,193,743.774284	-0.000174
Aggregate Household Self-Employment Income	1936	6,631,633.944090	0.001423
Aggregate Household Food Stamp Benefits	1936	308,290.057858	-0.033385
Aggregate Family Income- Total	1936	7,281,216.587286	-0.000203
Aggregate Family Income- No Workers	1936	4,130,480.757334	0.005130
Aggregate Family Income by Number of Workers	1936	8,801,021.091106	-0.000258
Aggregate Nonfamily Income	1936	2,846,166.847694	0.001621
Aggregate Person Income	1936	2,886,929.113597	0.000045
HOUSING			
Housing Units	1936	28.501766	-0.000073

Table D-99 a, b, & c Parameters - 1999 American Community Survey -
Black Hawk County, IA

Characteristics	a	b	c
POPULATION			
Population/Household Population	1521	46.857462	-0.000437
Aggregate Travel Time to Work (In Minutes)- Total	1521	867.803237	-0.000357
Aggregate Travel Time to Work (In Minutes) by Travel Time to Work	1521	638.884583	-0.000726
Aggregate Travel Time to Work (In Minutes)- Public Transportation and Less Than 30 Minutes	1521	76.964016	0.238429
Aggregate Travel Time to Work (In Minutes)- Public Transportation and More Than 30 Minutes	1521	76.964016	0.238429
Aggregate Travel Time to Work (In Minutes)-Other Means	1521	919.550031	-0.001241
Aggregate Household Income	1521	1,319,677.109194	-0.000383
Aggregate Household Earnings	1521	1,317,842.730603	-0.000448
Aggregate Household Social Security Income	1521	290,417.257749	-0.001031
Aggregate Household Retirement Income	1521	1,127,939.789680	-0.002328
Aggregate Household Supplemental Security Income	1521	218,281.493583	-0.006962
Aggregate Household Public Assistance Income	1521	88,100.883453	0.007373
Aggregate Household Wage or Salary Income	1521	1,261,947.032374	-0.000446
Aggregate Household Self-Employment Income	1521	2,131,385.064171	-0.007332
Aggregate Household Food Stamp Benefits	1521	77,357.569469	-0.000622
Aggregate Family Income- Total	1521	1,796,630.039186	-0.000688
Aggregate Family Income- No Workers	1521	1,260,842.517863	-0.002950
Aggregate Family Income by Number of Workers	1521	1,956,860.482897	-0.000875
Aggregate Nonfamily Income	1521	1,175,487.893303	-0.000037
Aggregate Person Income	1521	1,133,005.179507	-0.000280
HOUSING			
Housing Units	1521	11.740730	-0.000090

Table D-99 a, b, & c Parameters - 1999 American Community Survey -
Calvert County, MD

Characteristics	a	b	c
POPULATION			
Population/Household Population	1521	83.619635	-0.000991
Aggregate Travel Time to Work (In Minutes)- Total	1521	2,590.969382	-0.001336
Aggregate Travel Time to Work (In Minutes) by Travel Time to Work	1521	1,271.192832	0.002744
Aggregate Travel Time to Work (In Minutes)- Public Transportation and Less Than 30 Minutes	1521	1,644.129155	0.045036
Aggregate Travel Time to Work (In Minutes)- Public Transportation and More Than 30 Minutes	1521	1,644.129155	0.045036
Aggregate Travel Time to Work (In Minutes)-Other Means	1521	1,424.343046	0.002036
Aggregate Household Income	1521	2,599,621.497189	-0.000781
Aggregate Household Earnings	1521	2,507,385.583167	-0.000905
Aggregate Household Social Security Income	1521	808,492.676122	-0.010420
Aggregate Household Retirement Income	1521	1,466,170.924465	-0.003813
Aggregate Household Supplemental Security Income	1521	213,885.802854	0.008689
Aggregate Household Public Assistance Income	1521	166,320.586962	-0.074942
Aggregate Household Wage or Salary Income	1521	2,651,347.515202	-0.001107
Aggregate Household Self-Employment Income	1521	1,128,984.365566	0.010134
Aggregate Household Food Stamp Benefits	1521	139,498.821592	0.018996
Aggregate Family Income- Total	1521	3,002,244.484273	-0.001337
Aggregate Family Income- No Workers	1521	1,646,463.135434	-0.013535
Aggregate Family Income by Number of Workers	1521	3,780,287.760829	-0.001905
Aggregate Nonfamily Income	1521	1,731,823.897452	0.002126
Aggregate Person Income	1521	2,688,360.638329	-0.001010
HOUSING			
Housing Units	1521	17.473141	-0.000303

Table D-99 a, b, & c Parameters - 1999 American Community Survey -
Hampden County, MA

Characteristics	a	b	c
POPULATION			
Population/Household Population	1521	69.502698	-0.000156
Aggregate Travel Time to Work (In Minutes)- Total	1521	1,472.370650	-0.000123
Aggregate Travel Time to Work (In Minutes) by Travel Time to Work	1521	2,272.737264	-0.000933
Aggregate Travel Time to Work (In Minutes)- Public Transportation and Less Than 30 Minutes	1521	1,815.784110	-0.013556
Aggregate Travel Time to Work (In Minutes)- Public Transportation and More Than 30 Minutes	1521	1,706.308636	0.013542
Aggregate Travel Time to Work (In Minutes)-Other Means	1521	2,201.258263	-0.000922
Aggregate Household Income	1521	1,765,089.890055	-0.000106
Aggregate Household Earnings	1521	1,967,394.410478	-0.000109
Aggregate Household Social Security Income	1521	325,876.110999	-0.000214
Aggregate Household Retirement Income	1521	519,160.693397	-0.000008
Aggregate Household Supplemental Security Income	1521	467,664.575500	-0.001356
Aggregate Household Public Assistance Income	1521	413,600.672782	-0.002492
Aggregate Household Wage or Salary Income	1521	1,923,748.612486	-0.000110
Aggregate Household Self-Employment Income	1521	3,061,349.364872	-0.000488
Aggregate Household Food Stamp Benefits	1521	139,307.603871	-0.002647
Aggregate Family Income- Total	1521	2,041,637.660113	-0.000144
Aggregate Family Income- No Workers	1521	2,217,927.893980	-0.001283
Aggregate Family Income by Number of Workers	1521	2,595,107.311310	0.000082
Aggregate Nonfamily Income	1521	1,676,770.007180	0.000219
Aggregate Person Income	1521	1,810,316.336275	-0.000120
HOUSING			
Housing Units	1521	23.310295	-0.000050

Table D-99 a, b, & c Parameters - 1999 American Community Survey -
Madison County, MS

Characteristics	a	b	c
POPULATION			
Population/Household Population	1521	118.840844	-0.001443
Aggregate Travel Time to Work (In Minutes)- Total	1521	1,521.223943	-0.000896
Aggregate Travel Time to Work (In Minutes) by Travel Time to Work	1521	2,152.245922	-0.004095
Aggregate Travel Time to Work (In Minutes)- Public Transportation and Less Than 30 Minutes	1521	2,150.890692	-0.004092
Aggregate Travel Time to Work (In Minutes)- Public Transportation and More Than 30 Minutes	1521	2,150.890692	-0.004092
Aggregate Travel Time to Work (In Minutes)-Other Means	1521	2,150.890692	-0.004092
Aggregate Household Income	1521	1,180,306.347501	0.005686
Aggregate Household Earnings	1521	2,647,589.755523	0.003872
Aggregate Household Social Security Income	1521	446,465.229542	-0.005053
Aggregate Household Retirement Income	1521	709,248.019540	0.000079
Aggregate Household Supplemental Security Income	1521	372,898.865315	-0.010207
Aggregate Household Public Assistance Income	1521	372,898.865315	-0.010207
Aggregate Household Wage or Salary Income	1521	4,950,798.981787	-0.001630
Aggregate Household Self-Employment Income	1521	-38.106785	0.239934
Aggregate Household Food Stamp Benefits	1521	374,319.256183	-0.076137
Aggregate Family Income- Total	1521	1,064,374.351738	0.008873
Aggregate Family Income- No Workers	1521	15,264,310.592869	-0.102290
Aggregate Family Income by Number of Workers	1521	5,960,365.035707	-0.001650
Aggregate Nonfamily Income	1521	2,489,563.245719	0.002074
Aggregate Person Income	1521	2,128,691.263205	0.004686
HOUSING			
Housing Units	1521	34.668979	-0.000668

Table D-99 a, b, & c Parameters - 1999 American Community Survey -
Flathead / Lake Counties, MT

Characteristics	a	b	c
POPULATION			
Population/Household Population	1521	68.584450	-0.000850
Aggregate Travel Time to Work (In Minutes)- Total	1521	1,643.751561	-0.000972
Aggregate Travel Time to Work (In Minutes) by Travel Time to Work	1521	1,928.056648	-0.004301
Aggregate Travel Time to Work (In Minutes)- Public Transportation and Less Than 30 Minutes	1521	-44.286457	0.589606
Aggregate Travel Time to Work (In Minutes)- Public Transportation and More Than 30 Minutes	1521	-44.286457	0.589606
Aggregate Travel Time to Work (In Minutes)-Other Means	1521	1,917.636301	-0.004275
Aggregate Household Income	1521	2,248,110.099857	0.000214
Aggregate Household Earnings	1521	2,657,630.503926	0.000284
Aggregate Household Social Security Income	1521	155,569.623808	-0.000188
Aggregate Household Retirement Income	1521	645,472.735796	-0.002531
Aggregate Household Supplemental Security Income	1521	121,686.134169	0.017568
Aggregate Household Public Assistance Income	1521	130,979.184104	-0.019061
Aggregate Household Wage or Salary Income	1521	3,007,770.595425	0.000028
Aggregate Household Self-Employment Income	1521	1,335,173.186654	0.012469
Aggregate Household Food Stamp Benefits	1521	124,717.366010	-0.016331
Aggregate Family Income- Total	1521	2,802,763.591719	0.000244
Aggregate Family Income- No Workers	1521	810,035.992118	0.002692
Aggregate Family Income by Number of Workers	1521	6,751,175.534998	-0.005848
Aggregate Nonfamily Income	1521	2,376,580.363810	0.002443
Aggregate Person Income	1521	2,331,104.932912	0.000149
HOUSING			
Housing Units	1521	16.853045	-0.000226

Table D-99 a, b, & c Parameters - 1999 American Community Survey -
Douglas County, NE

Characteristics	a	b	c
POPULATION			
Population/Household Population	1521	38.537033	-0.000087
Aggregate Travel Time to Work (In Minutes)- Total	1521	1,054.958306	-0.000200
Aggregate Travel Time to Work (In Minutes) by Travel Time to Work	1521	1,208.789324	-0.000373
Aggregate Travel Time to Work (In Minutes)- Public Transportation and Less Than 30 Minutes	1521	680.713878	0.011677
Aggregate Travel Time to Work (In Minutes)- Public Transportation and More Than 30 Minutes	1521	-20.705102	0.071146
Aggregate Travel Time to Work (In Minutes)-Other Means	1521	1,204.409720	-0.000371
Aggregate Household Income	1521	2,283,263.873529	-0.000001
Aggregate Household Earnings	1521	2,257,655.989705	0.000040
Aggregate Household Social Security Income	1521	483,491.477815	-0.000584
Aggregate Household Retirement Income	1521	1,159,681.277640	-0.001527
Aggregate Household Supplemental Security Income	1521	-7.977050	0.010723
Aggregate Household Public Assistance Income	1521	-7.977050	0.010723
Aggregate Household Wage or Salary Income	1521	2,544,785.377180	0.000017
Aggregate Household Self-Employment Income	1521	3,353,960.751257	-0.003183
Aggregate Household Food Stamp Benefits	1521	40,264.654944	0.007164
Aggregate Family Income- Total	1521	4,281,399.346665	-0.000163
Aggregate Family Income- No Workers	1521	3,272,232.573534	-0.003632
Aggregate Family Income by Number of Workers	1521	9,326,837.635338	-0.001649
Aggregate Nonfamily Income	1521	-2.502209	0.001113
Aggregate Person Income	1521	2,789,886.231370	-0.000059
HOUSING			
Housing Units	1521	9.857122	0.000006

Table D-99 a, b, & c Parameters - 1999 American Community Survey -
Bronx Borough, NY

Characteristics	a	b	c
POPULATION			
Population/Household Population	1936	313.597520	-0.002269
Aggregate Travel Time to Work (In Minutes)- Total	1936	10,181.419563	-0.000462
Aggregate Travel Time to Work (In Minutes) by Travel Time to Work	1936	2,201.265640	0.000516
Aggregate Travel Time to Work (In Minutes)- Public Transportation and Less Than 30 Minutes	1936	3,797.786970	-0.004324
Aggregate Travel Time to Work (In Minutes)- Public Transportation and More Than 30 Minutes	1936	3,273.035775	0.000427
Aggregate Travel Time to Work (In Minutes)-Other Means	1936	11,638.902321	-0.006481
Aggregate Household Income	1936	5,234,950.503827	-0.000222
Aggregate Household Earnings	1936	5,852,685.886038	-0.000307
Aggregate Household Social Security Income	1936	582,702.973498	-0.000167
Aggregate Household Retirement Income	1936	1,317,773.779731	-0.000066
Aggregate Household Supplemental Security Income	1936	1,041,206.905852	-0.001126
Aggregate Household Public Assistance Income	1936	1,020,061.440316	-0.001058
Aggregate Household Wage or Salary Income	1936	5,760,794.965850	-0.000305
Aggregate Household Self-Employment Income	1936	4,891,129.471248	-0.010136
Aggregate Household Food Stamp Benefits	1936	312,777.587250	-0.000275
Aggregate Family Income- Total	1936	5,737,316.617500	-0.000321
Aggregate Family Income- No Workers	1936	2,076,312.675708	-0.000790
Aggregate Family Income by Number of Workers	1936	4,594,992.221846	-0.000020
Aggregate Nonfamily Income	1936	4,945,140.365866	-0.000169
Aggregate Person Income	1936	5,382,639.907826	-0.000209
HOUSING			
Housing Units	1936	69.273170	-0.000100

Table D-99 a, b, & c Parameters - 1999 American Community Survey -
Rockland County, NY

Characteristics	a	b	c
POPULATION			
Population/Household Population	1521	124.960669	0.000163
Aggregate Travel Time to Work (In Minutes)- Total	1521	3,762.587151	-0.000522
Aggregate Travel Time to Work (In Minutes) by Travel Time to Work	1521	2,468.029994	0.000708
Aggregate Travel Time to Work (In Minutes)- Public Transportation and Less Than 30 Minutes	1521	1,285.230219	-0.013928
Aggregate Travel Time to Work (In Minutes)- Public Transportation and More Than 30 Minutes	1521	3,798.830371	0.001377
Aggregate Travel Time to Work (In Minutes)-Other Means	1521	1,880.599757	0.001004
Aggregate Household Income	1521	5,943,875.710153	-0.000290
Aggregate Household Earnings	1521	5,727,007.998628	-0.000264
Aggregate Household Social Security Income	1521	548,334.240793	-0.001189
Aggregate Household Retirement Income	1521	1,265,359.253629	-0.000631
Aggregate Household Supplemental Security Income	1521	408,179.055296	-0.001981
Aggregate Household Public Assistance Income	1521	151,095.269302	0.042326
Aggregate Household Wage or Salary Income	1521	5,919,980.587898	-0.000356
Aggregate Household Self-Employment Income	1521	3,882,098.038993	0.000597
Aggregate Household Food Stamp Benefits	1521	303,173.585158	-0.019598
Aggregate Family Income- Total	1521	5,890,156.317967	-0.000437
Aggregate Family Income- No Workers	1521	1,802,800.141337	-0.001335
Aggregate Family Income by Number of Workers	1521	5,019,136.705882	-0.000097
Aggregate Nonfamily Income	1521	15,191,435.601221	-0.003095
Aggregate Person Income	1521	6,088,404.513798	-0.000377
HOUSING			
Housing Units	1521	32.966902	-0.000212

Table D-99 a, b, & c Parameters - 1999 American Community Survey -
Franklin County, OH

Characteristics	a	b	c
POPULATION			
Population/Household Population	1936	115.217490	-0.000112
Aggregate Travel Time to Work (In Minutes)- Total	1936	2,227.426579	-0.000123
Aggregate Travel Time to Work (In Minutes) by Travel Time to Work	1936	3,310.979727	-0.000496
Aggregate Travel Time to Work (In Minutes)- Public Transportation and Less Than 30 Minutes	1936	2,598.098392	-0.005475
Aggregate Travel Time to Work (In Minutes)- Public Transportation and More Than 30 Minutes	1936	-20.327755	0.053886
Aggregate Travel Time to Work (In Minutes)-Other Means	1936	2,906.823114	-0.000429
Aggregate Household Income	1936	2,284,022.229239	0.000003
Aggregate Household Earnings	1936	2,759,435.261350	0.000003
Aggregate Household Social Security Income	1936	586,470.978925	-0.000369
Aggregate Household Retirement Income	1936	1,314,657.369696	-0.000093
Aggregate Household Supplemental Security Income	1936	336,580.498756	0.001845
Aggregate Household Public Assistance Income	1936	527,455.118883	-0.006128
Aggregate Household Wage or Salary Income	1936	2,452,238.151407	0.000001
Aggregate Household Self-Employment Income	1936	7,086,619.407708	-0.002038
Aggregate Household Food Stamp Benefits	1936	493,139.674742	-0.010969
Aggregate Family Income- Total	1936	3,507,214.834017	-0.000005
Aggregate Family Income- No Workers	1936	1,199,583.092165	0.003540
Aggregate Family Income by Number of Workers	1936	6,938,546.320678	-0.000165
Aggregate Nonfamily Income	1936	2,974,461.269656	0.000156
Aggregate Person Income	1936	3,190,104.011822	-0.000047
HOUSING			
Housing Units	1936	28.171066	-0.000038

Table D-99 a, b, & c Parameters - 1999 American Community Survey -
Multnomah County, OR

Characteristics	a	b	c
POPULATION			
Population/Household Population	1521	90.831630	-0.000148
Aggregate Travel Time to Work (In Minutes)- Total	1521	1,714.875164	-0.000133
Aggregate Travel Time to Work (In Minutes) by Travel Time to Work	1521	1,866.390768	-0.000474
Aggregate Travel Time to Work (In Minutes)- Public Transportation and Less Than 30 Minutes	1521	1,213.737530	-0.001954
Aggregate Travel Time to Work (In Minutes)- Public Transportation and More Than 30 Minutes	1521	3,537.972533	-0.005680
Aggregate Travel Time to Work (In Minutes)-Other Means	1521	2,409.602004	-0.000713
Aggregate Household Income	1521	2,061,463.783710	-0.000028
Aggregate Household Earnings	1521	1,668,239.303208	-0.000026
Aggregate Household Social Security Income	1521	386,837.375889	-0.000269
Aggregate Household Retirement Income	1521	3,609,289.982575	-0.001495
Aggregate Household Supplemental Security Income	1521	259,910.286020	0.001072
Aggregate Household Public Assistance Income	1521	332,025.637686	-0.002377
Aggregate Household Wage or Salary Income	1521	1,829,006.444083	-0.000046
Aggregate Household Self-Employment Income	1521	926,592.585759	0.000928
Aggregate Household Food Stamp Benefits	1521	127,008.044940	0.000929
Aggregate Family Income- Total	1521	1,848,671.753325	0.000067
Aggregate Family Income- No Workers	1521	1,968,433.023220	-0.000727
Aggregate Family Income by Number of Workers	1521	2,726,682.028020	-0.000001
Aggregate Nonfamily Income	1521	2,971,171.747848	-0.000028
Aggregate Person Income	1521	2,509,035.451961	-0.000066
HOUSING			
Housing Units	1521	20.476373	-0.000033

Table D-99 a, b, & c Parameters - 1999 American Community Survey -
Schuylkill County, PA

Characteristics	a	b	c
POPULATION			
Population/Household Population	1521	86.159532	-0.000855
Aggregate Travel Time to Work (In Minutes)- Total	1521	1,693.738453	-0.000436
Aggregate Travel Time to Work (In Minutes) by Travel Time to Work	1521	2,382.575735	-0.003913
Aggregate Travel Time to Work (In Minutes)- Public Transportation and Less Than 30 Minutes	1521	313.075289	0.377606
Aggregate Travel Time to Work (In Minutes)- Public Transportation and More Than 30 Minutes	1521	313.075289	0.377606
Aggregate Travel Time to Work (In Minutes)-Other Means	1521	2,390.440891	-0.003925
Aggregate Household Income	1521	2,001,567.448324	-0.000516
Aggregate Household Earnings	1521	2,131,248.070815	-0.000714
Aggregate Household Social Security Income	1521	362,436.265463	-0.001008
Aggregate Household Retirement Income	1521	464,966.747812	-0.000470
Aggregate Household Supplemental Security Income	1521	183,272.823786	0.009398
Aggregate Household Public Assistance Income	1521	124,731.383945	0.012354
Aggregate Household Wage or Salary Income	1521	2,071,130.960621	-0.000704
Aggregate Household Self-Employment Income	1521	1,100,283.837407	-0.000849
Aggregate Household Food Stamp Benefits	1521	69,997.340780	0.005522
Aggregate Family Income- Total	1521	2,180,270.708714	-0.000678
Aggregate Family Income- No Workers	1521	1,908,388.387709	-0.006027
Aggregate Family Income by Number of Workers	1521	1,651,416.563342	-0.000045
Aggregate Nonfamily Income	1521	1,708,478.763855	-0.001365
Aggregate Person Income	1521	1,957,582.629674	-0.000527
HOUSING			
Housing Units	1521	20.356858	-0.000154

Table D-99 a, b, & c Parameters - 1999 American Community Survey -
Sevier County, TN

Characteristics	a	b	c
POPULATION			
Population/Household Population	1521	73.145048	-0.001078
Aggregate Travel Time to Work (In Minutes)- Total	1521	2,414.172554	-0.001798
Aggregate Travel Time to Work (In Minutes) by Travel Time to Work	1521	2,492.959708	-0.005868
Aggregate Travel Time to Work (In Minutes)- Public Transportation and Less Than 30 Minutes	1521	2,490.297499	-0.005846
Aggregate Travel Time to Work (In Minutes)- Public Transportation and More Than 30 Minutes	1521	2,490.297499	-0.005846
Aggregate Travel Time to Work (In Minutes)-Other Means	1521	2,490.297499	-0.005846
Aggregate Household Income	1521	1,634,645.393299	-0.000617
Aggregate Household Earnings	1521	1,792,493.046998	-0.001075
Aggregate Household Social Security Income	1521	343,163.723814	-0.001036
Aggregate Household Retirement Income	1521	219,896.476507	0.009650
Aggregate Household Supplemental Security Income	1521	376,948.968745	-0.002671
Aggregate Household Public Assistance Income	1521	143,710.366209	-0.001330
Aggregate Household Wage or Salary Income	1521	1,823,151.886847	-0.000963
Aggregate Household Self-Employment Income	1521	2,187,676.797910	-0.004568
Aggregate Household Food Stamp Benefits	1521	211,577.736457	-0.020358
Aggregate Family Income- Total	1521	1,582,771.506060	-0.000855
Aggregate Family Income- No Workers	1521	1,469,951.503788	-0.004138
Aggregate Family Income by Number of Workers	1521	1,709,959.056612	0.000250
Aggregate Nonfamily Income	1521	1,968,301.361099	-0.000507
Aggregate Person Income	1521	1,436,828.909038	-0.000572
HOUSING			
Housing Units	1521	30.197625	-0.000424

Table D-99 a, b, & c Parameters - 1999 American Community Survey -
Fort Bend / Harris Counties, TX

Characteristics	a	b	c
POPULATION			
Population/Household Population	7569	364.693176	-0.000122
Aggregate Travel Time to Work (In Minutes)- Total	7569	11,843.903543	-0.000153
Aggregate Travel Time to Work (In Minutes) by Travel Time to Work	7569	9,302.780383	-0.000390
Aggregate Travel Time to Work (In Minutes)- Public Transportation and Less Than 30 Minutes	7569	12,036.732730	-0.023208
Aggregate Travel Time to Work (In Minutes)- Public Transportation and More Than 30 Minutes	7569	6,945.391237	0.012717
Aggregate Travel Time to Work (In Minutes)-Other Means	7569	8,843.260731	-0.000385
Aggregate Household Income	7569	21,607,050.598012	-0.000136
Aggregate Household Earnings	7569	14,887,984.430767	-0.000088
Aggregate Household Social Security Income	7569	1,080,897.228265	-0.000044
Aggregate Household Retirement Income	7569	4,309,273.885801	-0.000282
Aggregate Household Supplemental Security Income	7569	547,288.901445	0.003100
Aggregate Household Public Assistance Income	7569	1,195,472.296632	-0.017346
Aggregate Household Wage or Salary Income	7569	10,075,787.819515	-0.000067
Aggregate Household Self-Employment Income	7569	25,970,370.117202	0.003790
Aggregate Household Food Stamp Benefits	7569	1,120,439.082903	-0.005590
Aggregate Family Income- Total	7569	21,479,745.871874	-0.000144
Aggregate Family Income- No Workers	7569	6,822,864.108591	0.001493
Aggregate Family Income by Number of Workers	7569	22,404,737.748169	-0.000228
Aggregate Nonfamily Income	7569	33,535,348.298883	-0.000518
Aggregate Person Income	7569	18,510,928.476281	-0.000116
HOUSING			
Housing Units	7569	100.523960	-0.000044

Table D-99 a, b, & c Parameters - 1999 American Community Survey -
Starr / Zapata Counties, TX

Characteristics	a	b	c
POPULATION			
Population/Household Population	1521	262.617809	-0.005867
Aggregate Travel Time to Work (In Minutes)- Total	1521	3,932.946809	-0.005608
Aggregate Travel Time to Work (In Minutes) by Travel Time to Work	1521	1,981.594453	-0.010199
Aggregate Travel Time to Work (In Minutes)- Public Transportation and Less Than 30 Minutes	1521	1,861.434704	-0.009432
Aggregate Travel Time to Work (In Minutes)- Public Transportation and More Than 30 Minutes	1521	1,861.434704	-0.009432
Aggregate Travel Time to Work (In Minutes)-Other Means	1521	1,861.434704	-0.009432
Aggregate Household Income	1521	5,589,314.044968	-0.003922
Aggregate Household Earnings	1521	3,531,915.709159	-0.002310
Aggregate Household Social Security Income	1521	633,463.838071	-0.003869
Aggregate Household Retirement Income	1521	1,195,404.445510	-0.013773
Aggregate Household Supplemental Security Income	1521	-19.226064	0.061390
Aggregate Household Public Assistance Income	1521	337,585.925969	-0.028912
Aggregate Household Wage or Salary Income	1521	1,354,980.057066	-0.001099
Aggregate Household Self-Employment Income	1521	21,374,958.348357	-0.194017
Aggregate Household Food Stamp Benefits	1521	216,059.815339	-0.004484
Aggregate Family Income- Total	1521	6,155,426.783941	-0.004829
Aggregate Family Income- No Workers	1521	10,572,087.052383	-0.121769
Aggregate Family Income by Number of Workers	1521	4,497,776.457047	0.001990
Aggregate Nonfamily Income	1521	2,160,675.990701	0.002107
Aggregate Person Income	1521	7,617,745.024965	-0.006215
HOUSING			
Housing Units	1521	25.908409	-0.000306

Table D-99 a, b, & c Parameters - 1999 American Community Survey -
Yakima County, WA

Characteristics	a	b	c
POPULATION			
Population/Household Population	1521	109.808564	-0.000516
Aggregate Travel Time to Work (In Minutes)- Total	1521	3,084.098319	-0.000746
Aggregate Travel Time to Work (In Minutes) by Travel Time to Work	1521	2,283.971274	-0.001908
Aggregate Travel Time to Work (In Minutes)- Public Transportation and Less Than 30 Minutes	1521	1,165.648439	0.039846
Aggregate Travel Time to Work (In Minutes)- Public Transportation and More Than 30 Minutes	1521	1,165.648439	0.039846
Aggregate Travel Time to Work (In Minutes)-Other Means	1521	2,276.278329	-0.001898
Aggregate Household Income	1521	1,096,250.276547	0.000466
Aggregate Household Earnings	1521	1,439,624.792120	0.000469
Aggregate Household Social Security Income	1521	234,791.996159	-0.000232
Aggregate Household Retirement Income	1521	418,406.675231	0.001588
Aggregate Household Supplemental Security Income	1521	551,954.676312	-0.015374
Aggregate Household Public Assistance Income	1521	435,762.653122	-0.001178
Aggregate Household Wage or Salary Income	1521	1,491,157.564081	-0.000058
Aggregate Household Self-Employment Income	1521	2,756,442.906326	0.028762
Aggregate Household Food Stamp Benefits	1521	205,611.534628	-0.009055
Aggregate Family Income- Total	1521	1,567,603.170400	0.000526
Aggregate Family Income- No Workers	1521	826,543.621546	0.000156
Aggregate Family Income by Number of Workers	1521	2,394,065.334718	0.001018
Aggregate Nonfamily Income	1521	1,138,208.942954	0.003075
Aggregate Person Income	1521	1,148,780.887240	0.000318
HOUSING			
Housing Units	1521	24.756039	-0.000166

Table E-99 a & b Parameters - 1999 American Community Survey -
Pima County, AZ

Characteristics	a	b
POPULATION		
Average Household Size	0.026348	-0.002035
Average Household Size-Owner Occupied	0.028446	-0.002191
Average Household Size-Renter Occupied	0.136209	-0.010605
Average Family Size	0.012874	-0.000961
Median Age	3.207431	-0.235159
Median Age by Sex	4.036143	-0.295244
Birth Rate	1,320.662622	-106.696931
Mean Travel Time to Work (In Minutes)	12.135612	-0.885800
Median Household Income	14,378,339.867000	-1,114,512.527401
Mean Household Income (Total or Earnings)	18,849,458.260566	-1,447,828.925343
Mean Household Income (Social Security Income)	932,500.186875	-71,845.608944
Mean Household Income (Retirement)	8,538,387.509434	-657,565.837837
Mean Household Income or Benefits (Supplemental Security)	3,468,790.180812	-268,073.135952
Mean Household Income or Benefits (Public Assistance or Food Stamp Benefits)	684,976.832432	-53,102.512901
Median Family Income	16,003,109.650234	-1,234,748.023007
Median Nonfamily Income	26,736,565.774196	-2,073,244.784222
Mean Nonfamily Income	8,825,655.421938	-647,066.201071
Per Capita Income	3,185,590.353109	-229,578.937324
Median Person Income	7,738,406.968443	-568,382.372289
Median Person Income by Sex	18,654,378.496324	-1,346,571.014768
HOUSING		
Median Number of Rooms	0.065186	-0.004324
Median Gross Rent	4,556.004324	-349.655882
Median Value	43,157,300.425066	-3,330,381.093939
Median Selected Monthly Owner Costs	7,533.588450	-583.029985
Median Selected Monthly Owner Costs by Mortgage Status	1,369.324281	-105.581875

Table E-99 a & b Parameters - 1999 American Community Survey -
Jefferson County, AR

Characteristics	a	b
POPULATION		
Average Household Size	0.035804	-0.003230
Average Household Size-Owner Occupied	0.026850	-0.002181
Average Household Size-Renter Occupied	0.372930	-0.034421
Average Family Size	0.027528	-0.002395
Median Age	11.974703	-1.055016
Median Age by Sex	19.448660	-1.717229
Birth Rate	2,475.920286	-235.690842
Mean Travel Time to Work (In Minutes)	7.508381	-0.633245
Median Household Income	43,235,379.410417	-4,051,081.137190
Mean Household Income (Total or Earnings)	21,119,158.191142	-1,922,736.219234
Mean Household Income (Social Security Income)	3,834,768.289882	-361,162.908306
Mean Household Income (Retirement)	21,033,764.893971	-1,974,425.349293
Mean Household Income or Benefits (Supplemental Security)	4,176,344.076421	-383,837.831560
Mean Household Income or Benefits (Public Assistance or Food Stamp Benefits)	642,294.248126	-59,557.036384
Median Family Income	67,929,109.693888	-6,291,669.287863
Median Nonfamily Income	45,761,022.402186	-4,205,985.549644
Mean Nonfamily Income	64,147,134.031735	-5,948,295.959408
Per Capita Income	2,918,577.102908	-250,689.988481
Median Person Income	18,023,086.555289	-1,590,212.463144
Median Person Income by Sex	34,928,910.755555	-2,936,342.924006
HOUSING		
Median Number of Rooms	0.102105	-0.008811
Median Gross Rent	548.940532	-29.729819
Median Value	171,168,876.373381	-16,126,167.857091
Median Selected Monthly Owner Costs	3,075.224712	-272.902294
Median Selected Monthly Owner Costs by Mortgage Status	13,113.568238	-1,249.892703

Table E-99 a & b Parameters - 1999 American Community Survey -
San Francisco County, CA

Characteristics	a	b
POPULATION		
Average Household Size	0.308668	-0.024214
Average Household Size-Owner Occupied	0.558915	-0.043769
Average Household Size-Renter Occupied	1.019442	-0.080038
Average Family Size	0.355947	-0.027856
Median Age	46.971004	-3.472542
Median Age by Sex	70.971331	-5.246901
Birth Rate	1,378.501996	-111.762123
Mean Travel Time to Work (In Minutes)	29.888327	-2.202372
Median Household Income	166,286,358.460444	-12,964,081.226245
Mean Household Income (Total or Earnings)	128,174,668.292394	-9,952,009.666709
Mean Household Income (Social Security Income)	3,463,434.280424	-270,132.392315
Mean Household Income (Retirement)	26,021,378.011219	-2,021,252.388600
Mean Household Income or Benefits (Supplemental Security)	3,944,958.606425	-305,670.681523
Mean Household Income or Benefits (Public Assistance or Food Stamp Benefits)	1,610,327.468499	-124,649.852898
Median Family Income	142,809,803.101075	-11,111,060.587762
Median Nonfamily Income	294,787,869.641136	-23,095,224.252068
Mean Nonfamily Income	182,024,824.433186	-14,146,112.734729
Per Capita Income	10,486,925.570437	-755,408.036600
Median Person Income	43,976,882.831105	-3,231,073.625253
Median Person Income by Sex	62,023,460.805726	-4,583,425.442925
HOUSING		
Median Number of Rooms	0.164364	-0.012127
Median Gross Rent	80,459.994160	-6,306.647935
Median Value	1,067,968,256.375540	-82,871,480.807912
Median Selected Monthly Owner Costs	121,600.507666	-9,267.791262
Median Selected Monthly Owner Costs by Mortgage Status	37,874.441166	-2,932.565867

Table E-99 a & b Parameters - 1999 American Community Survey -
Tulare County, CA

Characteristics	a	b
POPULATION		
Average Household Size	0.098994	-0.008404
Average Household Size-Owner Occupied	0.120564	-0.010138
Average Household Size-Renter Occupied	0.242507	-0.020467
Average Family Size	0.094480	-0.007985
Median Age	14.464772	-1.130197
Median Age by Sex	20.183634	-1.576741
Birth Rate	2,313.349713	-199.965548
Mean Travel Time to Work (In Minutes)	6.957853	-0.529794
Median Household Income	24,283,564.606016	-2,059,156.393245
Mean Household Income (Total or Earnings)	33,867,089.582763	-2,830,791.434227
Mean Household Income (Social Security Income)	1,976,892.294871	-164,720.439534
Mean Household Income (Retirement)	16,214,346.192579	-1,345,151.566194
Mean Household Income or Benefits (Supplemental Security)	6,816,277.554281	-561,215.563748
Mean Household Income or Benefits (Public Assistance or Food Stamp Benefits)	572,317.135051	-47,055.597622
Median Family Income	37,079,765.619813	-3,117,916.591915
Median Nonfamily Income	111,524,948.729686	-9,430,796.669122
Mean Nonfamily Income	17,326,517.821163	-1,290,414.502892
Per Capita Income	3,109,769.652578	-237,833.731492
Median Person Income	6,910,580.892562	-531,385.575612
Median Person Income by Sex	9,977,123.317426	-714,761.875760
HOUSING		
Median Number of Rooms	0.019599	-0.000479
Median Gross Rent	2,622.423674	-215.267700
Median Value	27,729,996.984872	-2,325,562.216234
Median Selected Monthly Owner Costs	14,917.433170	-1,258.999805
Median Selected Monthly Owner Costs by Mortgage Status	5,346.682110	-442.044486

Table E-99 a & b Parameters - 1999 American Community Survey -
Broward County, FL

Characteristics	a	b
POPULATION		
Average Household Size	0.013828	-0.001007
Average Household Size-Owner Occupied	0.021460	-0.001570
Average Household Size-Renter Occupied	0.078688	-0.005764
Average Family Size	0.022628	-0.001650
Median Age	5.496565	-0.385175
Median Age by Sex	8.771546	-0.615089
Birth Rate	2,136.985208	-164.926170
Mean Travel Time to Work (In Minutes)	3.382534	-0.234516
Median Household Income	13,627,910.212861	-996,574.650290
Mean Household Income (Total or Earnings)	19,743,887.873781	-1,437,189.166779
Mean Household Income (Social Security Income)	1,262,401.182160	-92,709.054143
Mean Household Income (Retirement)	10,366,275.630727	-755,512.231183
Mean Household Income or Benefits (Supplemental Security)	4,792,155.702476	-349,783.908379
Mean Household Income or Benefits (Public Assistance or Food Stamp Benefits)	806,681.628993	-58,890.119999
Median Family Income	34,128,451.142881	-2,495,707.708927
Median Nonfamily Income	25,521,894.695090	-1,884,074.189904
Mean Nonfamily Income	23,238,755.774642	-1,686,860.247211
Per Capita Income	4,324,049.438331	-300,204.965873
Median Person Income	8,870,006.984744	-619,293.649698
Median Person Income by Sex	9,777,076.344898	-666,588.388300
HOUSING		
Median Number of Rooms	0.032946	-0.001696
Median Gross Rent	3,997.892270	-292.141879
Median Value	86,999,975.760707	-6,354,362.493653
Median Selected Monthly Owner Costs	7,249.113785	-531.038080
Median Selected Monthly Owner Costs by Mortgage Status	5,752.771305	-420.871267

Table E-99 a & b Parameters - 1999 American Community Survey -
Lake County, IL

Characteristics	a	b
POPULATION		
Average Household Size	0.036480	-0.002927
Average Household Size-Owner Occupied	0.046522	-0.003733
Average Household Size-Renter Occupied	0.278783	-0.022465
Average Family Size	0.044457	-0.003561
Median Age	7.524281	-0.563534
Median Age by Sex	10.220918	-0.765056
Birth Rate	2,352.402574	-193.229229
Mean Travel Time to Work (In Minutes)	10.325829	-0.766962
Median Household Income	83,488,320.445564	-6,718,802.741822
Mean Household Income (Total or Earnings)	109,287,406.506102	-8,744,582.731983
Mean Household Income (Social Security Income)	5,929,681.378702	-474,819.030420
Mean Household Income (Retirement)	71,367,995.288454	-5,668,017.632663
Mean Household Income or Benefits (Supplemental Security)	3,233,075.557683	-235,678.180872
Mean Household Income or Benefits (Public Assistance or Food Stamp Benefits)	1,078,599.582580	-83,319.074447
Median Family Income	71,597,474.128961	-5,732,161.767282
Median Nonfamily Income	76,946,572.817603	-6,007,985.678041
Mean Nonfamily Income	242,603,923.122925	-19,214,839.156338
Per Capita Income	18,024,310.810510	-1,337,024.903756
Median Person Income	28,711,897.376094	-2,152,224.427511
Median Person Income by Sex	53,299,098.020779	-3,984,120.379754
HOUSING		
Median Number of Rooms	0.143500	-0.010832
Median Gross Rent	18,565.049107	-1,501.291941
Median Value	105,196,066.608153	-8,145,913.591790
Median Selected Monthly Owner Costs	19,964.116777	-1,603.121266
Median Selected Monthly Owner Costs by Mortgage Status	18,716.124217	-1,498.803049

Table E-99 a & b Parameters - 1999 American Community Survey -
Black Hawk County, IA

Characteristics	a	b
POPULATION		
Average Household Size	0.019215	-0.001698
Average Household Size-Owner Occupied	0.045327	-0.004038
Average Household Size-Renter Occupied	0.036047	-0.002852
Average Family Size	0.036204	-0.003209
Median Age	24.440637	-2.087117
Median Age by Sex	32.373782	-2.765780
Birth Rate	739.648374	-68.059002
Mean Travel Time to Work (In Minutes)	1.024298	-0.078307
Median Household Income	29,536,452.406493	-2,666,273.484876
Mean Household Income (Total or Earnings)	16,354,508.946886	-1,463,079.630584
Mean Household Income (Social Security Income)	1,624,524.246076	-143,497.922776
Mean Household Income (Retirement)	7,359,106.425643	-616,074.901157
Mean Household Income or Benefits (Supplemental Security)	6,053,484.636898	-551,376.437314
Mean Household Income or Benefits (Public Assistance or Food Stamp Benefits)	1,512,988.952799	-137,454.197180
Median Family Income	72,692,109.182035	-6,574,091.966045
Median Nonfamily Income	7,721,593.685757	-671,512.070300
Mean Nonfamily Income	15,783,745.955867	-1,403,294.764837
Per Capita Income	1,928,384.239567	-158,070.158985
Median Person Income	6,427,385.944481	-502,689.200581
Median Person Income by Sex	18,141,859.779789	-1,470,355.842438
HOUSING		
Median Number of Rooms	0.092641	-0.007644
Median Gross Rent	2,002.652494	-176.196741
Median Value	93,779,451.859116	-8,492,361.608827
Median Selected Monthly Owner Costs	6,395.386102	-568.997445
Median Selected Monthly Owner Costs by Mortgage Status	8,058.024150	-729.682691

Table E-99 a & b Parameters - 1999 American Community Survey -
Calvert County, MD

Characteristics	a	b
POPULATION		
Average Household Size	0.108618	-0.010429
Average Household Size-Owner Occupied	0.111421	-0.010605
Average Household Size-Renter Occupied	1.345139	-0.129087
Average Family Size	0.113655	-0.010787
Median Age	10.886902	-0.969264
Median Age by Sex	16.992766	-1.512147
Birth Rate	2,208.495047	-211.853592
Mean Travel Time to Work (In Minutes)	22.356870	-1.913686
Median Household Income	41,765,526.493719	-3,606,392.805164
Mean Household Income (Total or Earnings)	91,006,149.281074	-8,660,820.300069
Mean Household Income (Social Security Income)	11,155,802.532492	-1,074,290.456557
Mean Household Income (Retirement)	58,415,441.334698	-5,495,484.508611
Mean Household Income or Benefits (Supplemental Security)	95,164,853.520717	-9,232,854.177760
Mean Household Income or Benefits (Public Assistance or Food Stamp Benefits)	1,285,009.534475	-118,160.462859
Median Family Income	135,960,395.255668	-13,089,925.601513
Median Nonfamily Income	424,717,411.088147	-40,745,777.148397
Mean Nonfamily Income	142,094,537.883037	-12,952,171.346435
Per Capita Income	13,354,364.831882	-1,165,206.359890
Median Person Income	60,151,387.188883	-5,359,619.465807
Median Person Income by Sex	76,977,685.516856	-6,762,942.157296
HOUSING		
Median Number of Rooms	0.236774	-0.022117
Median Gross Rent	47,754.685992	-4,631.073281
Median Value	63,424,818.173957	-5,589,192.335108
Median Selected Monthly Owner Costs	10,460.099912	-930.602417
Median Selected Monthly Owner Costs by Mortgage Status	5,589.984373	-517.669321

Table E-99 a & b Parameters - 1999 American Community Survey -
Hampden County, MA

Characteristics	a	b
POPULATION		
Average Household Size	0.022194	-0.001795
Average Household Size-Owner Occupied	0.029734	-0.002396
Average Household Size-Renter Occupied	0.058040	-0.004659
Average Family Size	0.028487	-0.002292
Median Age	8.327082	-0.640122
Median Age by Sex	11.396056	-0.876406
Birth Rate	1,471.097947	-124.604828
Mean Travel Time to Work (In Minutes)	4.040919	-0.304637
Median Household Income	24,096,141.288509	-1,957,792.125607
Mean Household Income (Total or Earnings)	17,006,369.817528	-1,374,503.232389
Mean Household Income (Social Security Income)	1,182,143.893800	-95,494.068524
Mean Household Income (Retirement)	4,943,359.460105	-394,832.600871
Mean Household Income or Benefits (Supplemental Security)	1,798,403.513928	-144,452.275757
Mean Household Income or Benefits (Public Assistance or Food Stamp Benefits)	656,943.106039	-52,925.214836
Median Family Income	30,755,183.661314	-2,488,304.813089
Median Nonfamily Income	33,055,564.792094	-2,686,016.171354
Mean Nonfamily Income	16,272,516.575250	-1,304,120.542264
Per Capita Income	2,267,506.511942	-171,819.213631
Median Person Income	7,182,791.566436	-549,999.798420
Median Person Income by Sex	15,949,573.874378	-1,209,244.758171
HOUSING		
Median Number of Rooms	0.040810	-0.002541
Median Gross Rent	4,141.871435	-330.286653
Median Value	38,478,228.746757	-3,120,447.580349
Median Selected Monthly Owner Costs	15,311.778853	-1,251.017627
Median Selected Monthly Owner Costs by Mortgage Status	3,783.489289	-307.732709

Table E-99 a & b Parameters - 1999 American Community Survey -
Madison County, MS

Characteristics	a	b
POPULATION		
Average Household Size	0.117324	-0.011045
Average Household Size-Owner Occupied	0.188751	-0.017680
Average Household Size-Renter Occupied	0.842544	-0.080358
Average Family Size	0.156868	-0.014760
Median Age	32.106055	-2.852968
Median Age by Sex	25.451746	-2.257053
Birth Rate	2,265.114298	-220.543714
Mean Travel Time to Work (In Minutes)	11.258540	-0.961865
Median Household Income	59,597,973.667404	-5,592,249.428413
Mean Household Income (Total or Earnings)	13,101,079.853472	1,024,955.221335
Mean Household Income (Social Security Income)	3,712,331.422629	-350,559.105907
Mean Household Income (Retirement)	44,919,403.030276	-4,199,139.362359
Mean Household Income or Benefits (Supplemental Security)	27,453,070.047901	-2,576,999.864535
Mean Household Income or Benefits (Public Assistance or Food Stamp Benefits)	1,553,952.712754	-145,298.940070
Median Family Income	58,040,756.534137	-5,163,921.096278
Median Nonfamily Income	41,692,943.381318	-3,390,047.646555
Mean Nonfamily Income	142,262,401.454497	-13,204,781.231516
Per Capita Income	27,039,654.033937	-2,111,570.856677
Median Person Income	11,650,686.720592	-1,006,945.914479
Median Person Income by Sex	88,410,252.052754	-7,738,524.484751
HOUSING		
Median Number of Rooms	0.126757	-0.011331
Median Gross Rent	12,722.298487	-1,204.089666
Median Value	35,793,490.749579	-2,658,970.921230
Median Selected Monthly Owner Costs	4,369.081990	-350.391061
Median Selected Monthly Owner Costs by Mortgage Status	11,196.230814	-1,055.046419

Table E-99 a & b Parameters - 1999 American Community Survey -
Flathead / Lake Counties, MT

Characteristics	a	b
POPULATION		
Average Household Size	0.051682	-0.004756
Average Household Size-Owner Occupied	0.079245	-0.007253
Average Household Size-Renter Occupied	0.177605	-0.015880
Average Family Size	0.103481	-0.009489
Median Age	5.978927	-0.517063
Median Age by Sex	22.368286	-1.937645
Birth Rate	2,710.065769	-261.614112
Mean Travel Time to Work (In Minutes)	20.815374	-1.773514
Median Household Income	33,786,228.598828	-3,095,470.976728
Mean Household Income (Total or Earnings)	80,574,551.079057	-7,181,725.682771
Mean Household Income (Social Security Income)	1,919,749.778211	-173,310.229961
Mean Household Income (Retirement)	9,473,943.659303	-820,861.564176
Mean Household Income or Benefits (Supplemental Security)	6,365,680.518835	-562,463.758149
Mean Household Income or Benefits (Public Assistance or Food Stamp Benefits)	1,540,406.002151	-139,873.821467
Median Family Income	16,743,825.501219	-1,422,805.733855
Median Nonfamily Income	25,275,352.038269	-2,219,545.339944
Mean Nonfamily Income	33,868,912.814126	-2,540,858.955530
Per Capita Income	12,672,052.337813	-1,063,284.828837
Median Person Income	22,134,280.271361	-1,872,702.751830
Median Person Income by Sex	12,072,070.449639	-981,824.826696
HOUSING		
Median Number of Rooms	0.156152	-0.013630
Median Gross Rent	6,556.830286	-591.153933
Median Value	450,699,854.053367	-41,443,315.975099
Median Selected Monthly Owner Costs	37,035.997459	-3,405.703845
Median Selected Monthly Owner Costs by Mortgage Status	2,201.212988	-188.742256

Table E-99 a & b Parameters - 1999 American Community Survey -
Douglas County, NE

Characteristics	a	b
POPULATION		
Average Household Size	0.025479	-0.002072
Average Household Size-Owner Occupied	0.044193	-0.003604
Average Household Size-Renter Occupied	0.117967	-0.009640
Average Family Size	0.033193	-0.002680
Median Age	4.178171	-0.319415
Median Age by Sex	5.837432	-0.447292
Birth Rate	549.747911	-45.417456
Mean Travel Time to Work (In Minutes)	2.844912	-0.216694
Median Household Income	25,190,525.996746	-2,059,878.638306
Mean Household Income (Total or Earnings)	51,042,983.129111	-4,141,827.863583
Mean Household Income (Social Security Income)	6,401,426.843963	-524,191.770197
Mean Household Income (Retirement)	36,066,874.058449	-2,938,305.189209
Mean Household Income or Benefits (Supplemental Security)	4,049,821.162993	-326,746.829774
Mean Household Income or Benefits (Public Assistance or Food Stamp Benefits)	1.000000	897.290719
Median Family Income	81,909,761.095582	-6,715,085.593094
Median Nonfamily Income	62,929,347.909333	-5,163,960.608129
Mean Nonfamily Income	29,805,619.918612	-2,414,486.998757
Per Capita Income	14,333,279.024420	-1,093,450.461347
Median Person Income	6,137,162.611517	-441,864.353876
Median Person Income by Sex	14,330,956.305103	-1,083,212.713199
HOUSING		
Median Number of Rooms	0.105200	-0.007837
Median Gross Rent	6,347.175045	-520.541936
Median Value	15,296,089.563452	-1,231,202.880176
Median Selected Monthly Owner Costs	12,150.615420	-990.029296
Median Selected Monthly Owner Costs by Mortgage Status	2,404.778258	-192.661557

Table E-99 a & b Parameters - 1999 American Community Survey -
Bronx Borough, NY

Characteristics	a	b
POPULATION		
Average Household Size	0.116074	-0.008833
Average Household Size-Owner Occupied	0.327309	-0.024768
Average Household Size-Renter Occupied	0.129297	-0.009841
Average Family Size	0.131053	-0.009952
Median Age	27.399820	-1.957408
Median Age by Sex	74.040906	-5.290247
Birth Rate	3,454.464889	-270.430789
Mean Travel Time to Work (In Minutes)	56.948999	-4.056664
Median Household Income	34,294,438.229069	-2,592,031.387960
Mean Household Income (Total or Earnings)	23,608,389.742672	-1,787,266.844616
Mean Household Income (Social Security Income)	4,324,548.109750	-328,409.790088
Mean Household Income (Retirement)	8,930,496.794934	-666,641.955503
Mean Household Income or Benefits (Supplemental Security)	6,760,101.648327	-513,503.065272
Mean Household Income or Benefits (Public Assistance or Food Stamp Benefits)	923,186.462269	-70,116.863369
Median Family Income	33,345,180.470663	-2,523,204.617335
Median Nonfamily Income	51,604,258.868804	-3,918,734.250878
Mean Nonfamily Income	27,579,030.729669	-2,083,132.320707
Per Capita Income	4,989,134.685611	-354,890.158869
Median Person Income	18,804,331.082416	-1,314,680.251532
Median Person Income by Sex	54,960,002.207250	-3,887,238.127091
HOUSING		
Median Number of Rooms	0.060806	-0.003879
Median Gross Rent	4,664.543875	-353.624962
Median Value	1.000000	284,695.364599
Median Selected Monthly Owner Costs	1.000000	322.559378
Median Selected Monthly Owner Costs by Mortgage Status	1.000000	38.082445

Table E-99 a & b Parameters - 1999 American Community Survey -
Rockland County, NY

Characteristics	a	b
POPULATION		
Average Household Size	0.063179	-0.005409
Average Household Size-Owner Occupied	0.066412	-0.005656
Average Household Size-Renter Occupied	0.392398	-0.033605
Average Family Size	0.071951	-0.006145
Median Age	16.360142	-1.301298
Median Age by Sex	12.687913	-1.008948
Birth Rate	2,818.994749	-248.294553
Mean Travel Time to Work (In Minutes)	17.476792	-1.368922
Median Household Income	86,682,575.291479	-7,374,260.632458
Mean Household Income (Total or Earnings)	116,539,684.051815	-9,842,691.052030
Mean Household Income (Social Security Income)	3,642,399.403204	-310,414.427754
Mean Household Income (Retirement)	40,598,584.496322	-3,459,089.488888
Mean Household Income or Benefits (Supplemental Security)	13,328,819.796726	-1,126,123.492256
Mean Household Income or Benefits (Public Assistance or Food Stamp Benefits)	117,203.769454	-2,786.241898
Median Family Income	94,198,506.349558	-8,069,040.715357
Median Nonfamily Income	289,703,467.935743	-25,021,491.306297
Mean Nonfamily Income	144,040,946.207308	-10,976,016.113586
Per Capita Income	20,024,949.452912	-1,570,535.414457
Median Person Income	32,578,263.837329	-2,486,667.202874
Median Person Income by Sex	41,028,914.633298	-3,161,814.074224
HOUSING		
Median Number of Rooms	0.177143	-0.014508
Median Gross Rent	29,435.035034	-2,517.008213
Median Value	119,762,403.825952	-10,076,577.249186
Median Selected Monthly Owner Costs	47,223.106188	-4,061.910680
Median Selected Monthly Owner Costs by Mortgage Status	28,136.098444	-2,408.666947

Table E-99 a & b Parameters - 1999 American Community Survey -
Franklin County, OH

Characteristics	a	b
POPULATION		
Average Household Size	0.022596	-0.001719
Average Household Size-Owner Occupied	0.033648	-0.002558
Average Household Size-Renter Occupied	0.080720	-0.006143
Average Family Size	0.023541	-0.001778
Median Age	5.809159	-0.418925
Median Age by Sex	7.617042	-0.549398
Birth Rate	1,039.072344	-81.574277
Mean Travel Time to Work (In Minutes)	3.327375	-0.237765
Median Household Income	29,714,818.481928	-2,267,351.757903
Mean Household Income (Total or Earnings)	31,591,582.694202	-2,397,142.935001
Mean Household Income (Social Security Income)	2,773,967.848088	-210,928.230294
Mean Household Income (Retirement)	14,595,013.733102	-1,104,763.761719
Mean Household Income or Benefits (Supplemental Security)	2,489,940.099634	-187,802.393696
Mean Household Income or Benefits (Public Assistance or Food Stamp Benefits)	283,158.356464	-20,798.565776
Median Family Income	42,581,015.721412	-3,237,448.769802
Median Nonfamily Income	30,046,243.095777	-2,277,199.394777
Mean Nonfamily Income	28,248,031.132592	-2,133,636.517646
Per Capita Income	7,764,903.878678	-557,622.800391
Median Person Income	20,109,517.161289	-1,451,710.420095
Median Person Income by Sex	16,731,046.643623	-1,185,189.422393
HOUSING		
Median Number of Rooms	0.115407	-0.008080
Median Gross Rent	3,703.397517	-281.681695
Median Value	50,871,233.603527	-3,854,732.692492
Median Selected Monthly Owner Costs	6,645.777480	-501.465773
Median Selected Monthly Owner Costs by Mortgage Status	2,774.063193	-208.466380

Table E-99 a & b Parameters - 1999 American Community Survey -
Multnomah County, OR

Characteristics	a	b
POPULATION		
Average Household Size	0.021227	-0.001671
Average Household Size-Owner Occupied	0.044201	-0.003484
Average Household Size-Renter Occupied	0.203955	-0.016201
Average Family Size	0.043899	-0.003456
Median Age	5.247457	-0.391468
Median Age by Sex	8.508577	-0.636189
Birth Rate	569.821200	-46.152610
Mean Travel Time to Work (In Minutes)	3.026759	-0.222723
Median Household Income	19,900,875.409171	-1,563,087.685909
Mean Household Income (Total or Earnings)	17,960,064.842271	-1,410,168.558817
Mean Household Income (Social Security Income)	2,902,492.823107	-230,019.231962
Mean Household Income (Retirement)	15,969,352.884302	-1,203,804.434971
Mean Household Income or Benefits (Supplemental Security)	1,451,323.834212	-112,790.296390
Mean Household Income or Benefits (Public Assistance or Food Stamp Benefits)	1,899,210.589422	-150,235.910400
Median Family Income	24,165,538.237050	-1,852,852.711349
Median Nonfamily Income	23,235,562.404499	-1,819,398.267991
Mean Nonfamily Income	35,175,626.059957	-2,757,272.373419
Per Capita Income	4,884,088.659945	-361,565.244021
Median Person Income	10,332,138.622262	-751,702.972274
Median Person Income by Sex	16,700,210.448495	-1,222,089.548332
HOUSING		
Median Number of Rooms	0.045268	-0.002810
Median Gross Rent	6,560.066154	-519.618767
Median Value	26,744,508.769484	-2,034,253.586685
Median Selected Monthly Owner Costs	6,087.806978	-475.885388
Median Selected Monthly Owner Costs by Mortgage Status	2,001.387850	-154.742264

Table E-99 a & b Parameters - 1999 American Community Survey -
Schuylkill County, PA

Characteristics	a	b
POPULATION		
Average Household Size	0.033630	-0.002955
Average Household Size-Owner Occupied	0.040033	-0.003491
Average Household Size-Renter Occupied	0.155153	-0.013627
Average Family Size	0.034572	-0.002988
Median Age	15.370955	-1.289681
Median Age by Sex	30.190956	-2.531927
Birth Rate	670.210431	-61.722155
Mean Travel Time to Work (In Minutes)	6.087185	-0.483044
Median Household Income	32,588,264.816853	-2,877,705.855370
Mean Household Income (Total or Earnings)	23,976,165.883119	-2,100,623.481016
Mean Household Income (Social Security Income)	1,332,180.999161	-116,953.533850
Mean Household Income (Retirement)	5,619,602.382000	-489,729.560068
Mean Household Income or Benefits (Supplemental Security)	2,131,472.379029	-168,270.570868
Mean Household Income or Benefits (Public Assistance or Food Stamp Benefits)	621,837.273637	-53,356.700111
Median Family Income	27,727,294.734469	-2,450,557.427416
Median Nonfamily Income	45,705,571.358626	-4,073,937.906685
Mean Nonfamily Income	20,606,238.742182	-1,814,087.218996
Per Capita Income	3,244,058.311211	-266,032.243490
Median Person Income	5,992,710.528271	-501,100.587414
Median Person Income by Sex	28,123,466.758535	-2,345,887.416570
HOUSING		
Median Number of Rooms	0.089970	-0.007188
Median Gross Rent	3,618.076583	-320.915116
Median Value	56,763,161.056609	-4,982,084.819016
Median Selected Monthly Owner Costs	14,790.904419	-1,318.639616
Median Selected Monthly Owner Costs by Mortgage Status	4,569.014568	-397.751250

Table E-99 a & b Parameters - 1999 American Community Survey -
Sevier County, TN

Characteristics	a	b
POPULATION		
Average Household Size	0.080171	-0.007524
Average Household Size-Owner Occupied	0.094280	-0.008707
Average Household Size-Renter Occupied	0.287129	-0.026502
Average Family Size	0.068053	-0.006279
Median Age	13.651888	-1.223296
Median Age by Sex	47.551561	-4.272653
Birth Rate	4,142.855441	-414.350590
Mean Travel Time to Work (In Minutes)	10.464640	-0.905177
Median Household Income	25,489,253.308313	-2,331,436.702739
Mean Household Income (Total or Earnings)	29,288,798.721871	-2,720,965.031267
Mean Household Income (Social Security Income)	7,148,195.595847	-672,921.718287
Mean Household Income (Retirement)	79,137,328.135597	-7,524,457.535288
Mean Household Income or Benefits (Supplemental Security)	699,704.389512	-43,455.644342
Mean Household Income or Benefits (Public Assistance or Food Stamp Benefits)	305,097.005399	-26,304.759837
Median Family Income	11,784,984.735175	-885,765.429915
Median Nonfamily Income	93,559,446.331365	-8,721,920.088435
Mean Nonfamily Income	65,527,608.206496	-5,952,642.811429
Per Capita Income	5,287,124.557209	-458,541.363245
Median Person Income	13,177,241.362537	-1,101,399.630554
Median Person Income by Sex	9,783,534.752450	-870,173.402851
HOUSING		
Median Number of Rooms	0.177787	-0.016198
Median Gross Rent	3,601.721003	-327.023816
Median Value	115,658,614.862900	-9,633,034.473103
Median Selected Monthly Owner Costs	30,429.704970	-2,490.527874
Median Selected Monthly Owner Costs by Mortgage Status	14,176.184914	-1,339.134209

Table E-99 a & b Parameters - 1999 American Community Survey -
Fort Bend / Harris Counties, TX

Characteristics	a	b
POPULATION		
Average Household Size	0.071309	-0.005018
Average Household Size-Owner Occupied	0.091717	-0.006433
Average Household Size-Renter Occupied	0.368134	-0.025923
Average Family Size	0.076977	-0.005401
Median Age	9.135453	-0.604332
Median Age by Sex	10.580667	-0.700073
Birth Rate	2,529.706874	-181.942302
Mean Travel Time to Work (In Minutes)	9.417457	-0.619699
Median Household Income	67,662,402.563758	-4,746,581.049898
Mean Household Income (Total or Earnings)	71,732,455.412066	-5,024,805.790504
Mean Household Income (Social Security Income)	6,797,958.401161	-477,759.186834
Mean Household Income (Retirement)	86,073,544.020722	-6,047,714.910088
Mean Household Income or Benefits (Supplemental Security)	1,318,922.920549	-90,104.519724
Mean Household Income or Benefits (Public Assistance or Food Stamp Benefits)	622,647.755134	-43,297.669170
Median Family Income	92,852,255.584871	-6,521,191.557161
Median Nonfamily Income	125,836,208.860491	-8,875,471.059689
Mean Nonfamily Income	105,296,691.453009	-7,303,993.622852
Per Capita Income	10,566,131.511356	-696,066.964218
Median Person Income	24,807,286.252367	-1,639,196.931764
Median Person Income by Sex	50,591,025.536668	-3,328,831.510461
HOUSING		
Median Number of Rooms	0.168025	-0.011148
Median Gross Rent	10,814.613422	-759.649922
Median Value	114,615,755.862583	-8,056,888.162158
Median Selected Monthly Owner Costs	19,588.163947	-1,377.355944
Median Selected Monthly Owner Costs by Mortgage Status	20,961.866110	-1,474.566234

Table E-99 a & b Parameters - 1999 American Community Survey -
Starr / Zapata Counties, TX

Characteristics	a	b
POPULATION		
Average Household Size	0.278754	-0.026764
Average Household Size-Owner Occupied	0.301385	-0.028728
Average Household Size-Renter Occupied	1.712047	-0.162141
Average Family Size	0.245568	-0.023149
Median Age	31.777807	-2.783009
Median Age by Sex	87.240868	-7.792966
Birth Rate	5,215.190359	-506.686174
Mean Travel Time to Work (In Minutes)	44.975691	-3.893405
Median Household Income	35,839,647.134505	-3,374,171.668453
Mean Household Income (Total or Earnings)	39,269,432.651472	-3,446,713.409960
Mean Household Income (Social Security Income)	6,571,421.969799	-626,608.294461
Mean Household Income (Retirement)	131,178,254.330750	-12,777,764.386664
Mean Household Income or Benefits (Supplemental Security)	53,727,495.648321	-5,244,366.194252
Mean Household Income or Benefits (Public Assistance or Food Stamp Benefits)	739,144.372923	-69,590.510466
Median Family Income	56,342,313.469015	-5,497,200.124421
Median Nonfamily Income	76,931,016.957744	-6,867,884.014805
Mean Nonfamily Income	77,142,621.874302	-6,962,952.668420
Per Capita Income	27,838,906.783549	-2,456,644.600268
Median Person Income	21,035,176.951532	-1,819,988.700240
Median Person Income by Sex	26,687,118.380019	-2,307,729.274953
HOUSING		
Median Number of Rooms	0.096437	-0.007431
Median Gross Rent	25,126.042388	-2,459.924581
Median Value	53,308,500.885441	-5,080,185.958586
Median Selected Monthly Owner Costs	13,257.677720	-1,305.802913
Median Selected Monthly Owner Costs by Mortgage Status	137,080.247354	-13,367.382968

Table E-99 a & b Parameters - 1999 American Community Survey -
Yakima County, WA

Characteristics	a	b
POPULATION		
Average Household Size	0.090470	-0.007932
Average Household Size-Owner Occupied	0.137311	-0.012019
Average Household Size-Renter Occupied	0.161019	-0.013828
Average Family Size	0.097155	-0.008513
Median Age	23.697247	-1.924409
Median Age by Sex	36.037505	-2.924719
Birth Rate	4,174.529700	-376.173359
Mean Travel Time to Work (In Minutes)	14.605602	-1.161330
Median Household Income	26,709,937.789593	-2,329,925.728847
Mean Household Income (Total or Earnings)	28,714,253.840074	-2,401,087.747795
Mean Household Income (Social Security Income)	1,045,914.553616	-87,365.956732
Mean Household Income (Retirement)	5,943,896.798500	-497,189.006195
Mean Household Income or Benefits (Supplemental Security)	2,954,803.943224	-252,940.212031
Mean Household Income or Benefits (Public Assistance or Food Stamp Benefits)	2,935,002.764498	-255,483.763972
Median Family Income	40,717,230.512929	-3,545,668.195450
Median Nonfamily Income	81,044,363.002586	-7,122,331.582442
Mean Nonfamily Income	31,020,854.646357	-2,541,313.796690
Per Capita Income	2,961,521.183954	-228,438.177698
Median Person Income	6,775,485.190932	-523,597.205912
Median Person Income by Sex	8,886,626.168597	-677,654.449208
HOUSING		
Median Number of Rooms	0.198084	-0.016718
Median Gross Rent	1,045.715175	-82.865230
Median Value	96,849,750.938097	-8,185,945.377469
Median Selected Monthly Owner Costs	24,357.195757	-2,148.531842
Median Selected Monthly Owner Costs by Mortgage Status	15,845.171120	-1,394.932763