Accuracy of the Data (2000)

INTRODUCTION

The data contained in these Profiles and Summary Tables are based on the American Community Survey (ACS) sample interviewed in 2000. The ACS is designed to provide accurate estimates for the housing units and population of the sites participating in the 2000 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 2000 American Community Survey*" provides information on the sites, data collection, and Master Address File.

SAMPLE DESIGN

- Sites -- Thirty-six counties participated in the 2000 ACS. The primary sampling unit was the housing unit (HU), including all occupants. Persons living in group quarters (GQ) were **NOT** 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.

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 2000 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 2000 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 all cases was determined as the weighted number of cases mailed out that month divided by the weighted number of cases received for that 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 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.

- Housing control Factor (HPF1) - This factor made the total weight of all housing units agree with the Census number of housing units at the county level.

- 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 HPF1). 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-level Census 2000 population counts by age, race, sex, and Hispanic origin.

    This used the following groups:

    County x Race (non-Hispanic White, non-Hispanic Black, non-Hispanic American Indian or Alaskan Native, non-Hispanic Asian, non-Hispanic Native Hawaiian or Pacific Islander, and Hispanic(any race)) x Sex x Age Groups.

  - Rounding - The final product of all person weights (BW x . . . x HPF1 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.

  - Final Housing Unit Controls (HPF2) - The final product of the principal person weights (BW x . . . x HPF1 x PPF) was then assigned to the housing unit. The total number of weighted housing unit counts are then made to agree to the Census 2000 housing unit counts at the county level.

- Rounding - The final product of all housing unit weights (BW x . . . x PPF x HPF2) 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

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 the Master Address File (MAF). The MAF is created by combining the 1990 Census Address Control File, the Delivery Sequence File of the United States Postal Service, and addresses listed for Census 2000. 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 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 keying of data from completed questionnaires, automated
  clerical review, and follow-up by telephone; 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

Direct estimates of the standard errors were calculated and reported for the estimates in this product. When reporting the standard error of a single line, we recommend that you use the direct standard error, which can be obtained from the published confidence interval using the steps in the next section.

For an estimate which combines more than one line - such as a sum, difference, or ratio - you may approximate the standard error using the direct standard error estimates or a generalized variance method. The parameters used in the generalized variances methods were obtained using the direct standard errors. Both methods are described in the sections below.

Direct Standard Errors

    Methodology Used -- Direct estimates of the standard errors were calculated for all estimates reported in this product. They are provided in the summary tables and profiles as 90 percent confidence intervals. 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.

    Exceptions -- There are seven cases for which the direct standard error estimates are not appropriate.

    1. The estimate of the number or proportion of people, households, housing units or families in a geographic area with a specific characteristic is zero. A special procedure was used to estimate the standard error.

    2. There are no sample observations available to compute an estimate of a proportion or other ratio or an estimate of its standard error. The estimate is represented in the tables by "-" and the lower and upper bounds of the 90 percent confidence interval by "**".

    3. There are no sample observations available to compute an estimate of a median or an estimate of its standard error. The estimate is represented in the tables by "-" and the lower and upper bounds of the 90 percent confidence interval by "**".

    4. Only a small number of identical values are reported and used to calculate an aggregate, mean, or per capita amount. In this case, there are too few sample observations to compute a stable estimate of the standard error. The lower and upper bounds of the 90 percent confidence interval are represented in the tables by "*".

5. The estimate of a median falls in the lowest interval or upper interval of an open-ended distribution. If the median occurs in the lowest interval, then a "-" follows the estimate, and if the median occurs in the upper interval, then a "+" follows the estimate. In both cases the lower and upper bounds of the 90 percent confidence interval are represented in the tables by "***".

6. The estimate of the number of people having a specified characteristic is controlled to be equal to an independently derived population estimate. For these cases the standard error is zero. The lower and upper bounds of the 90 percent confidence interval are represented in the tables by "*****". (See "ESTIMATION PROCEDURE" for a further explanation.)

7. The estimate of the number of housing units is controlled to be equal to an independently derived housing unit estimate. For these cases the standard error is zero. The lower and upper bounds of the 90 percent confidence interval are represented in the tables by "*****". (See "ESTIMATION PROCEDURE" for a further explanation.)

Calculating Standard Errors from the 90 Percent Confidence Interval -- In most cases you can calculate the standard error using the estimate and the upper bound. If the upper bound has been set to its largest admissible value (See Limitation 2. below) then the lower bound should be used instead of the upper bound.

Standard Error = (upper bound - estimate) / 1.65

or

Standard Error = (estimate - lower bound) / 1.65

• Sums and Differences of Estimates the use 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 -- Frequently, the statistic of interest is the ratio of two variables, where the numerator *is not* a subset of the denominator. The standard error of the ratio between two sample estimates is approximated as follows:

$$SE\left(\frac{\hat{X}}{\hat{Y}}\right) = \frac{1}{\hat{Y}}\sqrt{[SE(\hat{X})]^2 + \frac{\hat{X}^2}{\hat{Y}^2}[SE(\hat{Y})]^2}$$

- Proportions/percents - The statistic of interest may be a proportion or percent, where the numerator *is* a subset of the denominator. Note the difference between the formulas for the standard error for proportions and ratios.

$$SE(\hat{P}) = \frac{1}{\hat{Y}}\sqrt{[SE(\hat{X})]^2 - \frac{\hat{X}^2}{\hat{Y}^2}[SE(\hat{Y})]^2}$$

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.

Design Factor Method

The information provided in Tables A-2000 through C-2000 can be used to approximate the standard errors of most sample estimates of *totals* and *proportions* in the Profiles and Summary Tables. Tables A-2000 and B-2000 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-2000. 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 2000 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-2000 through C-2000, 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-2000.

> 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-2000.

> 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-2000.

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-2000 through C-2000 are used in the following manner to approximate standard errors:

> 1. Obtain the basic standard error from either Table A-2000 (for an estimate of a total) or Table B-2000 (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 P001 or H001, 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-2000.

2. Use Table C-2000 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. If the estimate is a combination of two or more characteristics, then use the largest design factor for this combination of characteristics. **The only exception to this is for items crossed with race or Hispanic Origin, for an item(s) crossed with race or Hispanic Origin use the largest design factor not including the race or Hispanic Origin design factor**.

a, b, & c Parameter Method

The information provided in Table D-2000 can be used to approximate the standard errors for estimates of *aggregates*, *total population*, and *housing units*. Use Table D-2000 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-2000 can be used to approximate the standard errors for estimates of *means*, *medians*, *per capita amounts*, and *ratios (other than proportions)*. Use Table E-2000 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 universe count for medians, or the denominator of the estimate for means, per capita amounts and ratios for the geography(ies) you are interested in.

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 2000 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 2000 to demonstrate the use of the formulas.

Example 1 - Calculating the Standard Error from the Confidence Interval - Direct

The estimated number of males, never married is 6,956 from summary table P031 in Calvert County, Maryland. The lower bound is 6,352 and the upper bound is 7,560.

Standard Error = (upper bound - estimate) / 1.65 = (estimate - lower bound) / 1.65

Calculating the standard error using the upper bound we have:

SE(6,956) = (7,560 - 6,956) / 1.65 = 366.

Example 2 - Calculating the Standard Error of a Sum - Direct

We are interested in the number of people who have never been married. From summary table P031 we have the number of males, never married is 6,956 with an upper bound of 7,560; and the number of females, never married is 6,547 with an upper bound of 7,085. So the estimated number of people who have never been married is 6,956 + 6,547 = 13,503. To calculate the standard error of this sum, we need the standard errors of the two estimates in the sum. We have the standard error for the number of males never married from example 1 as 366. The standard error for the number of females never married is calculated using the upper bound:

SE(6,547) = (7,085 - 6,547) / 1.65 = 326.

So using the formula for the standard error of a sum or difference we have:

$$SE(13,503) = \sqrt{366^2 + 326^2} = 490.$$

Caution: 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.

To calculate the lower and upper bounds of the 90 percent confidence interval around 13,503 using the standard error, simply multiply 490 by 1.65, then add and subtract the product from 13,503. Thus the 90 percent confidence interval for this estimate is [13,503 - 1.65(490)] to [13,503 + 1.65(490)] or 12,695 to 14,312.

Example 3 - Calculating the Standard Error of a Percent - Direct

We are interested in the percentage of females who have never been married to the number of people who have never been married. The number of females, never married is 6,547 and the number of people who have never been married is 13,503 To calculate the standard error of this sum, we need the standard errors of the two estimates in the sum. We have the standard error for the number of females never married from example 2 as 326 and the standard error for the number of people never married calculated from example 2 as 490.

The estimate is (6,547 / 13,503) * 100 = 48.5%

So using the formula for the standard error of a ratio we have:

$$SE(48.5\%) = 100\% \times \frac{1}{13,503} \sqrt{326^2 - 0.485^2 \times 490^2} = 1.7\%.$$

To calculate the lower and upper bounds of the 90 percent confidence interval around 48.5 using the standard error, simply multiply 1.7 by 1.65, then add and subtract the product from 48.5. Thus the 90 percent confidence interval for this estimate is [48.5 - 1.65(1.7)] to [48.5 + 1.65(1.7)] or 45.7% to 51.3%.

Example 4 - Total Estimate - Generalized Variance

The estimated number of males, never married is 96,995, and females, never married is 82,170 from summary table P031 in Pima County, AZ, but we are interested in the total number of people who have never been married. So the estimate of never married people is 96,995 + 82,170 = 179,165. To determine the basic standard error, we use the formula below Table A-2001. In this formula $\hat{Y}$ is our estimate of 179,165 and N is determined from summary table P001 for Pima County to be 821,712.

$$\text{BasicSE}(179,165) = \sqrt{\frac{95}{5} * 179,165 * (1 - \frac{179,165}{821,712})} = 1,632.$$

The design factor (from Table C-2001) for "Marital Status" for Pima County is 1.3. The approximate standard error estimate for the estimated number of never married people is determined by multiplying the basic standard error 1,632 by the design factor 1.3. This yields an estimated standard error of 2,122. (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 179,165 using the final standard error, simply multiply 2,122 by 1.65, then add and subtract the product from 179,165. Thus the 90 percent confidence interval for this estimate is [179,165 - 1.65(2,122] to [179,165 + 1.65(2,122)] or 175,664 to 182,666.

Example 5 - "Small" Total Estimate - Generalized Variance

The estimated number of people who used a taxicab to get to work from summary table P047 in Schuylkill County, PA is 19. Since this estimate is below the small estimate cutoff for Schuylkill County of 80, we use a basic standard error of 39.

The design factor (from Table C-2001) for "Means of Transportation to Work" for Schuylkill County is 1.6. The approximate standard error estimate for the estimated number of people who used a taxicab to get to work is determined by multiplying the basic standard error 39 by the design factor 1.6. This yields an estimated standard error of 62. (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 19 using the final standard error, simply multiply 62 by 1.65, then add and subtract the product from 19. Thus the 90 percent confidence interval for this estimate is found to be

[19 - 1.65(62)] to [19 + 1.65(62)] or -83 to 121, 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 121.

Example 6 - Proportion or Percentage Estimate - Generalized Variance

The estimated percent of people 25 years or over with a bachelor's degree or higher in Rockland County, NY is 38.3 from Table 2, Profile of Selected Social Characteristics and the base of the estimated percentage is 178,210. Using the formula below Table B-2001 to obtain the basic standard error, we calculate:

$$\text{BasicSE(39.7)} = \sqrt{\frac{95}{5*178,210}*38.3*(100-38.3)} = 0.5.$$

The design factor for "Educational Attainment" for Rockland County, NY is 1.4. Multiply 0.5 by the design factor 1.4 to approximate the ACS standard error estimate. The standard error estimate is found to be 0.7.

To calculate the lower and upper bounds of the 90 percent confidence interval around 38.3 percent using the final standard error, simply multiply 0.7 by 1.65, then add and subtract the product from 38.3. Thus the 90 percent confidence interval for this estimated percentage is [38.3 - 1.65(0.7)] to [38.3 + 1.65(0.7)] or 37.1 to 39.5.

Example 7 - Median Estimate - Generalized Variance

The estimated median age for males is 31.4 from summary table P006 for Franklin County, OH. 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-2001) for "Median Age by Sex" for Franklin County are: 10.720147 and -0.811279, respectively. In this formula, N (the total number of males) is determined from summary table P004 for Franklin County to be 509,176.

$$\text{SE(31.4)} = \sqrt{10.720147 - 0.811279 * \text{LOG}(509,176)} = 0.2.$$

To calculate the lower and upper bounds of the 90 percent confidence interval around 31.4 using the standard error, simply multiply 0.2 by 1.65, then add and subtract the product from 31.4. Thus the 90 percent confidence interval for this estimate is [31.4 - 1.65(0.2)] to [31.4 + 1.65(0.2)] or 31.1 to 31.7.

Example 8 - Ratio Estimate - Generalized Variance

The estimated average household size is 2.32 from summary table P009 for San Francisco County, CA. 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-2001) for "Average Household Size" for San Francisco County are: 0.011787 and -0.000912,

respectively. In this formula, N (the number of households) is determined from summary table P007 for San Francisco County to be 325,657.

$$SE(2.32) = \sqrt{0.011787 - 0.000912 * LOG\ (325,657)} = 0.01.$$

To calculate the lower and upper bounds of the 90 percent confidence interval around 2.32 using the standard error, simply multiply 0.01 by 1.65, then add and subtract the product from 2.32. Thus the 90 percent confidence interval for this estimate is [2.32 - 1.65(0.01)] to [2.32 + 1.65(0.01)] or 2.30 to 2.34.

Example 9 - Aggregate Estimate - Generalized Variance

The estimated aggregate household income in 2001 inflation adjusted dollars is 14,969,364,520 from summary table P071 for Multnomah County, OR. 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-2001) for "Aggregate Household Income" for Multnomah County are: 1,521; 2,344,821.074810; and -0.000030; respectively.

$$SE(14,969,364,520) =$$
$$\sqrt{1,521 + 2,344,821.074810 * 14,969,364,520 - 0.000030 * 14,969,364,520^2}$$

$$= 168,457,785.$$

To calculate the lower and upper bounds of the 90 percent confidence interval around 14,969,364,520 using the standard error, simply multiply 168,457,785 by 1.65, then add and subtract the product from 14,969,364,520. Thus the 90 percent confidence interval for this estimate is [14,969,364,520 - 1.65(168,457,785)] to [14,969,364,520 + 1.65(168,457,785)] or 14,691,409,175 to 15,247,319,865.

Table A-2000. 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.

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

   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-2000. 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-2000. Standard Error Design Factors - 2000 American Community Survey - Pima County, AZ   (Page 1 of 3)

Characteristics	Design Factor
POPULATION	
Families and Nonfamilies	1.4
Population in Households by Race/Hispanic Origin of Householder	2.8
Population in Families	4.3
Age	1.3
Sex	2.1
Population of One Race	10.1
Population of Two or More Races	2.7
White Alone	4.0
Black or African American Alone	1.5
American Indian and Alaska Native Alone, Asian Alone, Native Hawaiian and Other Pacific Islander Alone, or Some Other Race Alone	3.0
Hispanic or Latino	2.8
Not Hispanic or Latino	1.5
Marital Status	1.3
Relationship	1.5
Ancestry	2.0
Grandparents Responsible for Grandchildren	1.8
Number of Women Who Had a Birth in the Past 12 Months	1.6
Language Spoken at Home and Ability to Speak English	1.6
Linguistic Isolation	1.5
Place of Birth, Year of Entry, and Citizenship Status	2.0
Residence 1 Year Ago	2.3
School Enrollment, Level of School, and Type of School	1.4
Educational Attainment	1.4
Armed Forces Status and Veteran Status	1.2
Period of Military Service	1.5
Disability Status	1.2
Employment/Work Status	1.2
Industry, Occupation, and Class of Worker	1.5

Table C-2000. Standard Error Design Factors - 2000 American Community Survey -
Pima County, AZ   (Page 2 of 3)

Characteristics	Design Factor
Travel Time to Work	1.6
Means of Transportation to Work	1.6
Place of Work	1.8
Time Leaving Home to go to Work	1.7
Private Vehicle Occupancy	1.7
Work Experience, Hours Worked per Week, and Weeks Worked	1.5
Number of Workers in Family	1.4
Family Type, Household Type, and Household Size	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	1.4
Households by Presence of Nonrelatives	2.1
Age of Own Children by Living Arrangements and Employment Status of Parents	1.9
Age of Householder	1.3
Race of Householder	1.5
Hispanic Origin of Householder	1.4
Household, Family, or Nonfamily Income	1.5
Person Earnings/Income	1.5
Type of Household Income	1.6
Poverty Status (Persons)	1.4
Poverty Status (Families/Households)	1.5
Ratio of Income to Poverty Level	3.1
Receipt of Food Stamps and Participation in Free or Reduced Price Meals	1.6
Participation in Federal Home Heating and Cooling Assistance Program	1.6
HOUSING	
Occupied Housing Units	3.1
Tenure	1.5
Vacant	1.8
Rooms and Bedrooms	1.5
Occupants per Room	1.5
Units in Structure	1.6
Year Structure Built and Year Householder Moved Into Unit	1.5

Table C-2000. Standard Error Design Factors - 2000 American Community Survey -
Pima County, AZ   (Page 3 of 3)

Characteristics	Design Factor
House Heating Fuel	1.4
Telephone Service Available	1.6
Vehicles Available	1.5
Plumbing Facilities and Kitchen Facilities	2.0
Gross Rent, Gross Rent as a Percentage Of Household Income, and Contract Rent	1.7
Meals Included in Rent	1.5
Rent Asked	1.9
Inclusion of Utilities in Rent	1.6
Value	1.4
Price Asked	1.9
Mortgage Status and Selected Monthly Owner Costs	1.3
Population by Tenure	3.0

Table C-2000. Standard Error Design Factors - 2000 American Community Survey - Jefferson County, AR   (Page 1 of 3)

Characteristics	Design Factor
POPULATION	
Families and Nonfamilies	1.5
Population in Households by Race/Hispanic Origin of Householder	1.6
Population in Families	3.2
Age	1.2
Sex	1.3
Population of One Race	10.5
Population of Two or More Races	1.7
White Alone	2.0
Black or African American Alone	1.9
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	2.4
Not Hispanic or Latino	2.0
Marital Status	1.1
Relationship	1.2
Ancestry	1.8
Grandparents Responsible for Grandchildren	1.5
Number of Women Who Had a Birth in the Past 12 Months	0.9
Language Spoken at Home and Ability to Speak English	1.1
Linguistic Isolation	1.4
Place of Birth, Year of Entry, and Citizenship Status	2.0
Residence 1 Year Ago	2.3
School Enrollment, Level of School, and Type of School	1.2
Educational Attainment	1.3
Armed Forces Status and Veteran Status	1.1
Period of Military Service	1.3
Disability Status	1.1
Employment/Work Status	1.2
Industry, Occupation, and Class of Worker	1.4

Table C-2000. Standard Error Design Factors - 2000 American Community Survey - Jefferson County, AR

Characteristics	Design Factor
Travel Time to Work	1.5
Means of Transportation to Work	1.3
Place of Work	1.3
Time Leaving Home to go to Work	1.5
Private Vehicle Occupancy	1.4
Work Experience, Hours Worked per Week, and Weeks Worked	1.3
Number of Workers in Family	1.3
Family Type, Household Type, and Household Size	1.3
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	1.2
Households by Presence of Nonrelatives	2.4
Age of Own Children by Living Arrangements and Employment Status of Parents	1.6
Age of Householder	1.3
Race of Householder	1.0
Hispanic Origin of Householder	1.2
Household, Family, or Nonfamily Income	1.4
Person Earnings/Income	1.4
Type of Household Income	1.3
Poverty Status (Persons)	1.4
Poverty Status (Families/Households)	1.4
Ratio of Income to Poverty Level	2.6
Receipt of Food Stamps and Participation in Free or Reduced Price Meals	1.3
Participation in Federal Home Heating and Cooling Assistance Program	1.3
HOUSING	
Occupied Housing Units	2.1
Tenure	1.3
Vacant	1.7
Rooms and Bedrooms	1.4
Occupants per Room	1.3
Units in Structure	1.4
Year Structure Built and Year Householder Moved Into Unit	1.3

Table C-2000. Standard Error Design Factors - 2000 American Community Survey -
Jefferson County, AR   (Page 3 of 3)

Characteristics	Design Factor
House Heating Fuel	1.3
Telephone Service Available	1.4
Vehicles Available	1.3
Plumbing Facilities and Kitchen Facilities	1.6
Gross Rent, Gross Rent as a Percentage Of Household Income, and Contract Rent	1.5
Meals Included in Rent	1.4
Rent Asked	1.8
Inclusion of Utilities in Rent	1.5
Value	1.3
Price Asked	1.6
Mortgage Status and Selected Monthly Owner Costs	1.3
Population by Tenure	2.6

Table C-2000. Standard Error Design Factors - 2000 American Community Survey -
San Francisco County, CA   (Page 1 of 3)

Characteristics	Design Factor
POPULATION	
Families and Nonfamilies	1.7
Population in Households by Race/Hispanic Origin of Householder	1.6
Population in Families	2.4
Age	0.9
Sex	1.0
Population of One Race	2.9
Population of Two or More Races	2.8
White Alone	1.6
Black or African American Alone	0.7
American Indian and Alaska Native Alone, Asian Alone, Native Hawaiian and Other Pacific Islander Alone, or Some Other Race Alone	1.5
Hispanic or Latino	3.1
Not Hispanic or Latino	1.0
Marital Status	1.6
Relationship	1.8
Ancestry	2.1
Grandparents Responsible for Grandchildren	2.3
Number of Women Who Had a Birth in the Past 12 Months	0.8
Language Spoken at Home and Ability to Speak English	1.8
Linguistic Isolation	1.6
Place of Birth, Year of Entry, and Citizenship Status	2.1
Residence 1 Year Ago	2.5
School Enrollment, Level of School, and Type of School	1.3
Educational Attainment	1.8
Armed Forces Status and Veteran Status	1.1
Period of Military Service	1.8
Disability Status	1.0
Employment/Work Status	1.1
Industry, Occupation, and Class of Worker	1.8

Table C-2000. Standard Error Design Factors - 2000 American Community Survey - San Francisco County, CA   (Page 2 of 3)

Characteristics	Design Factor
Travel Time to Work	2.1
Means of Transportation to Work	2.1
Place of Work	1.9
Time Leaving Home to go to Work	1.9
Private Vehicle Occupancy	2.2
Work Experience, Hours Worked per Week, and Weeks Worked	1.5
Number of Workers in Family	1.8
Family Type, Household Type, and Household Size	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	1.3
Households by Presence of Nonrelatives	2.2
Age of Own Children by Living Arrangements and Employment Status of Parents	1.9
Age of Householder	1.6
Race of Householder	1.4
Hispanic Origin of Householder	1.4
Household, Family, or Nonfamily Income	1.8
Person Earnings/Income	1.9
Type of Household Income	1.7
Poverty Status (Persons)	1.2
Poverty Status (Families/Households)	1.9
Ratio of Income to Poverty Level	3.6
Receipt of Food Stamps and Participation in Free or Reduced Price Meals	1.9
Participation in Federal Home Heating and Cooling Assistance Program	1.7
HOUSING	
Occupied Housing Units	1.9
Tenure	1.7
Vacant	1.9
Rooms and Bedrooms	1.8
Occupants per Room	1.8
Units in Structure	1.6
Year Structure Built and Year Householder Moved Into Unit	1.8

Table C-2000. Standard Error Design Factors - 2000 American Community Survey -
San Francisco County, CA   (Page 3 of 3)

Characteristics	Design Factor
House Heating Fuel	1.8
Telephone Service Available	1.7
Vehicles Available	1.7
Plumbing Facilities and Kitchen Facilities	1.9
Gross Rent, Gross Rent as a Percentage Of Household Income, and Contract Rent	1.8
Meals Included in Rent	1.7
Rent Asked	2.2
Inclusion of Utilities in Rent	2.0
Value	1.7
Price Asked	1.8
Mortgage Status and Selected Monthly Owner Costs	1.7
Population by Tenure	3.4

Table C-2000. Standard Error Design Factors - 2000 American Community Survey -
Tulare County, CA   (Page 1 of 3)

Characteristics	Design Factor
POPULATION	
Families and Nonfamilies	1.6
Population in Households by Race/Hispanic Origin of Householder	3.4
Population in Families	7.8
Age	1.5
Sex	2.8
Population of One Race	14.5
Population of Two or More Races	2.2
White Alone	4.6
Black or African American Alone	2.6
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	4.5
Not Hispanic or Latino	2.8
Marital Status	1.4
Relationship	1.7
Ancestry	2.0
Grandparents Responsible for Grandchildren	1.8
Number of Women Who Had a Birth in the Past 12 Months	1.7
Language Spoken at Home and Ability to Speak English	2.2
Linguistic Isolation	1.5
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	1.4
Educational Attainment	1.5
Armed Forces Status and Veteran Status	1.4
Period of Military Service	1.3
Disability Status	1.5
Employment/Work Status	1.3
Industry, Occupation, and Class of Worker	1.6

Characteristics	Design Factor
Travel Time to Work	1.8
Means of Transportation to Work	1.9
Place of Work	2.0
Time Leaving Home to go to Work	1.6
Private Vehicle Occupancy	2.0
Work Experience, Hours Worked per Week, and Weeks Worked	1.5
Number of Workers in Family	1.6
Family Type, Household Type, and Household Size	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
Households by Presence of Nonrelatives	2.4
Age of Own Children by Living Arrangements and Employment Status of Parents	2.2
Age of Householder	1.3
Race of Householder	1.5
Hispanic Origin of Householder	1.5
Household, Family, or Nonfamily Income	1.5
Person Earnings/Income	1.6
Type of Household Income	1.7
Poverty Status (Persons)	1.8
Poverty Status (Families/Households)	1.6
Ratio of Income to Poverty Level	3.5
Receipt of Food Stamps and Participation in Free or Reduced Price Meals	1.6
Participation in Federal Home Heating and Cooling Assistance Program	1.6
HOUSING	
Occupied Housing Units	3.7
Tenure	1.6
Vacant	1.7
Rooms and Bedrooms	1.6
Occupants per Room	1.6
Units in Structure	1.6
Year Structure Built and Year Householder Moved Into Unit	1.5

Table C-2000. Standard Error Design Factors - 2000 American Community Survey -
Tulare County, CA   (Page 3 of 3)

Characteristics	Design Factor
House Heating Fuel	1.4
Telephone Service Available	1.6
Vehicles Available	1.5
Plumbing Facilities and Kitchen Facilities	2.3
Gross Rent, Gross Rent as a Percentage Of Household Income, and Contract Rent	1.6
Meals Included in Rent	1.6
Rent Asked	1.9
Inclusion of Utilities in Rent	1.6
Value	1.5
Price Asked	1.7
Mortgage Status and Selected Monthly Owner Costs	1.4
Population by Tenure	3.5

Table C-2000. Standard Error Design Factors - 2000 American Community Survey - Broward County, FL   (Page 1 of 3)

Characteristics	Design Factor
POPULATION	
Families and Nonfamilies	2.0
Population in Households by Race/Hispanic Origin of Householder	3.2
Population in Families	6.2
Age	1.8
Sex	3.0
Population of One Race	17.1
Population of Two or More Races	2.7
White Alone	4.6
Black or African American Alone	4.4
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	4.0
Marital Status	1.7
Relationship	2.0
Ancestry	2.5
Grandparents Responsible for Grandchildren	2.1
Number of Women Who Had a Birth in the Past 12 Months	2.1
Language Spoken at Home and Ability to Speak English	2.3
Linguistic Isolation	1.8
Place of Birth, Year of Entry, and Citizenship Status	2.5
Residence 1 Year Ago	3.0
School Enrollment, Level of School, and Type of School	1.8
Educational Attainment	1.7
Armed Forces Status and Veteran Status	1.6
Period of Military Service	1.7
Disability Status	1.7
Employment/Work Status	1.6
Industry, Occupation, and Class of Worker	1.8

Table C-2000. Standard Error Design Factors - 2000 American Community Survey - Broward County, FL   (Page 2 of 3)

Characteristics	Design Factor
Travel Time to Work	2.0
Means of Transportation to Work	2.5
Place of Work	2.4
Time Leaving Home to go to Work	1.9
Private Vehicle Occupancy	2.4
Work Experience, Hours Worked per Week, and Weeks Worked	1.7
Number of Workers in Family	1.7
Family Type, Household Type, and Household Size	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	1.7
Households by Presence of Nonrelatives	3.0
Age of Own Children by Living Arrangements and Employment Status of Parents	2.3
Age of Householder	1.6
Race of Householder	1.7
Hispanic Origin of Householder	1.7
Household, Family, or Nonfamily Income	1.8
Person Earnings/Income	1.8
Type of Household Income	2.0
Poverty Status (Persons)	1.9
Poverty Status (Families/Households)	1.8
Ratio of Income to Poverty Level	3.5
Receipt of Food Stamps and Participation in Free or Reduced Price Meals	1.9
Participation in Federal Home Heating and Cooling Assistance Program	1.8
HOUSING	
Occupied Housing Units	3.6
Tenure	1.7
Vacant	2.2
Rooms and Bedrooms	1.8
Occupants per Room	1.8
Units in Structure	1.7
Year Structure Built and Year Householder Moved Into Unit	1.7

Table C-2000. Standard Error Design Factors - 2000 American Community Survey -
Broward County, FL   (Page 3 of 3)

Characteristics	Design Factor
House Heating Fuel	1.9
Telephone Service Available	1.9
Vehicles Available	1.7
Plumbing Facilities and Kitchen Facilities	2.4
Gross Rent, Gross Rent as a Percentage Of Household Income, and Contract Rent	1.9
Meals Included in Rent	1.8
Rent Asked	2.2
Inclusion of Utilities in Rent	2.0
Value	1.5
Price Asked	2.2
Mortgage Status and Selected Monthly Owner Costs	1.6
Population by Tenure	3.2

Table C-2000. Standard Error Design Factors - 2000 American Community Survey -
Lake County, IL   (Page 1 of 3)

Characteristics	Design Factor
POPULATION	
Families and Nonfamilies	1.8
Population in Households by Race/Hispanic Origin of Householder	3.4
Population in Families	7.8
Age	1.7
Sex	2.8
Population of One Race	18.6
Population of Two or More Races	2.6
White Alone	6.7
Black or African American Alone	3.4
American Indian and Alaska Native Alone, Asian Alone, Native Hawaiian and Other Pacific Islander Alone, or Some Other Race Alone	3.1
Hispanic or Latino	4.3
Not Hispanic or Latino	4.3
Marital Status	1.4
Relationship	1.9
Ancestry	2.5
Grandparents Responsible for Grandchildren	2.0
Number of Women Who Had a Birth in the Past 12 Months	1.9
Language Spoken at Home and Ability to Speak English	2.1
Linguistic Isolation	1.6
Place of Birth, Year of Entry, and Citizenship Status	2.5
Residence 1 Year Ago	3.1
School Enrollment, Level of School, and Type of School	1.6
Educational Attainment	1.6
Armed Forces Status and Veteran Status	1.5
Period of Military Service	1.7
Disability Status	1.5
Employment/Work Status	1.5
Industry, Occupation, and Class of Worker	1.6

Table C-2000. Standard Error Design Factors - 2000 American Community Survey -
Lake County, IL   (Page 2 of 3)

Characteristics	Design Factor
Travel Time to Work	1.8
Means of Transportation to Work	1.9
Place of Work	1.8
Time Leaving Home to go to Work	1.9
Private Vehicle Occupancy	2.3
Work Experience, Hours Worked per Week, and Weeks Worked	1.6
Number of Workers in Family	1.7
Family Type, Household Type, and Household Size	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	1.7
Households by Presence of Nonrelatives	3.2
Age of Own Children by Living Arrangements and Employment Status of Parents	2.2
Age of Householder	1.5
Race of Householder	2.1
Hispanic Origin of Householder	1.6
Household, Family, or Nonfamily Income	1.7
Person Earnings/Income	1.7
Type of Household Income	2.0
Poverty Status (Persons)	1.6
Poverty Status (Families/Households)	1.8
Ratio of Income to Poverty Level	3.7
Receipt of Food Stamps and Participation in Free or Reduced Price Meals	1.7
Participation in Federal Home Heating and Cooling Assistance Program	1.8
HOUSING	
Occupied Housing Units	4.8
Tenure	1.7
Vacant	2.1
Rooms and Bedrooms	1.7
Occupants per Room	1.8
Units in Structure	1.8
Year Structure Built and Year Householder Moved Into Unit	1.7

Table C-2000. Standard Error Design Factors - 2000 American Community Survey - Lake County, IL   (Page 3 of 3)

Characteristics	Design Factor
House Heating Fuel	2.0
Telephone Service Available	1.8
Vehicles Available	1.7
Plumbing Facilities and Kitchen Facilities	2.8
Gross Rent, Gross Rent as a Percentage Of Household Income, and Contract Rent	1.9
Meals Included in Rent	1.9
Rent Asked	2.1
Inclusion of Utilities in Rent	1.7
Value	1.5
Price Asked	2.1
Mortgage Status and Selected Monthly Owner Costs	1.6
Population by Tenure	3.5

Table C-2000. Standard Error Design Factors - 2000 American Community Survey -
Black Hawk County, IA   (Page 1 of 3)

Characteristics	Design Factor
POPULATION	
Families and Nonfamilies	1.2
Population in Households by Race/Hispanic Origin of Householder	2.2
Population in Families	2.6
Age	1.0
Sex	1.3
Population of One Race	7.0
Population of Two or More Races	2.4
White Alone	3.0
Black or African American Alone	1.9
American Indian and Alaska Native Alone, Asian Alone, Native Hawaiian and Other Pacific Islander Alone, or Some Other Race Alone	2.1
Hispanic or Latino	2.0
Not Hispanic or Latino	1.7
Marital Status	1.0
Relationship	1.0
Ancestry	1.7
Grandparents Responsible for Grandchildren	1.5
Number of Women Who Had a Birth in the Past 12 Months	1.2
Language Spoken at Home and Ability to Speak English	1.3
Linguistic Isolation	1.3
Place of Birth, Year of Entry, and Citizenship Status	1.9
Residence 1 Year Ago	2.2
School Enrollment, Level of School, and Type of School	1.1
Educational Attainment	1.1
Armed Forces Status and Veteran Status	1.1
Period of Military Service	1.2
Disability Status	0.9
Employment/Work Status	0.9
Industry, Occupation, and Class of Worker	1.2

Table C-2000. Standard Error Design Factors - 2000 American Community Survey -
Black Hawk County, IA   (Page 2 of 3)

Characteristics	Design Factor
Travel Time to Work	1.4
Means of Transportation to Work	1.3
Place of Work	1.3
Time Leaving Home to go to Work	1.3
Private Vehicle Occupancy	1.3
Work Experience, Hours Worked per Week, and Weeks Worked	1.2
Number of Workers in Family	1.1
Family Type, Household Type, and Household Size	1.1
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	1.1
Households by Presence of Nonrelatives	1.5
Age of Own Children by Living Arrangements and Employment Status of Parents	1.5
Age of Householder	1.0
Race of Householder	1.3
Hispanic Origin of Householder	1.3
Household, Family, or Nonfamily Income	1.2
Person Earnings/Income	1.2
Type of Household Income	1.2
Poverty Status (Persons)	1.1
Poverty Status (Families/Households)	1.2
Ratio of Income to Poverty Level	2.1
Receipt of Food Stamps and Participation in Free or Reduced Price Meals	1.2
Participation in Federal Home Heating and Cooling Assistance Program	1.2
HOUSING	
Occupied Housing Units	2.7
Tenure	1.3
Vacant	1.8
Rooms and Bedrooms	1.3
Occupants per Room	1.2
Units in Structure	1.2
Year Structure Built and Year Householder Moved Into Unit	1.2

Table C-2000. Standard Error Design Factors - 2000 American Community Survey -
Black Hawk County, IA   (Page 3 of 3)

Characteristics	Design Factor
House Heating Fuel	1.2
Telephone Service Available	1.3
Vehicles Available	1.2
Plumbing Facilities and Kitchen Facilities	2.0
Gross Rent, Gross Rent as a Percentage Of Household Income, and Contract Rent	1.3
Meals Included in Rent	1.2
Rent Asked	1.9
Inclusion of Utilities in Rent	1.3
Value	1.1
Price Asked	1.5
Mortgage Status and Selected Monthly Owner Costs	1.2
Population by Tenure	2.2

Table C-2000. Standard Error Design Factors - 2000 American Community Survey - Calvert County, MD   (Page 1 of 3)

Characteristics	Design Factor
POPULATION	
Families and Nonfamilies	1.5
Population in Households by Race/Hispanic Origin of Householder	2.2
Population in Families	5.3
Age	1.3
Sex	1.8
Population of One Race	9.0
Population of Two or More Races	2.5
White Alone	3.9
Black or African American Alone	2.2
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	1.9
Not Hispanic or Latino	3.0
Marital Status	1.1
Relationship	1.1
Ancestry	2.1
Grandparents Responsible for Grandchildren	1.9
Number of Women Who Had a Birth in the Past 12 Months	1.0
Language Spoken at Home and Ability to Speak English	1.4
Linguistic Isolation	1.2
Place of Birth, Year of Entry, and Citizenship Status	1.9
Residence 1 Year Ago	3.1
School Enrollment, Level of School, and Type of School	1.2
Educational Attainment	1.3
Armed Forces Status and Veteran Status	1.2
Period of Military Service	1.3
Disability Status	1.1
Employment/Work Status	1.2
Industry, Occupation, and Class of Worker	1.4

Table C-2000. Standard Error Design Factors - 2000 American Community Survey - Calvert County, MD   (Page 2 of 3)

Characteristics	Design Factor
Travel Time to Work	1.5
Means of Transportation to Work	1.3
Place of Work	1.4
Time Leaving Home to go to Work	1.5
Private Vehicle Occupancy	1.4
Work Experience, Hours Worked per Week, and Weeks Worked	1.2
Number of Workers in Family	1.4
Family Type, Household Type, and Household Size	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
Households by Presence of Nonrelatives	1.8
Age of Own Children by Living Arrangements and Employment Status of Parents	1.5
Age of Householder	1.3
Race of Householder	1.3
Hispanic Origin of Householder	1.4
Household, Family, or Nonfamily Income	1.4
Person Earnings/Income	1.4
Type of Household Income	1.5
Poverty Status (Persons)	1.1
Poverty Status (Families/Households)	1.4
Ratio of Income to Poverty Level	3.0
Receipt of Food Stamps and Participation in Free or Reduced Price Meals	1.4
Participation in Federal Home Heating and Cooling Assistance Program	1.4
HOUSING	
Occupied Housing Units	2.8
Tenure	1.7
Vacant	1.7
Rooms and Bedrooms	1.5
Occupants per Room	1.5
Units in Structure	1.6
Year Structure Built and Year Householder Moved Into Unit	1.4

Table C-2000. Standard Error Design Factors - 2000 American Community Survey -
Calvert County, MD   (Page 3 of 3)

Characteristics	Design Factor
House Heating Fuel	1.3
Telephone Service Available	1.7
Vehicles Available	1.5
Plumbing Facilities and Kitchen Facilities	2.0
Gross Rent, Gross Rent as a Percentage Of Household Income, and Contract Rent	1.6
Meals Included in Rent	1.6
Rent Asked	2.1
Inclusion of Utilities in Rent	1.6
Value	1.4
Price Asked	1.8
Mortgage Status and Selected Monthly Owner Costs	1.4
Population by Tenure	3.3

Table C-2000. Standard Error Design Factors - 2000 American Community Survey - Hampden County, MA   (Page 1 of 3)

Characteristics	Design Factor
POPULATION	
Families and Nonfamilies	1.5
Population in Households by Race/Hispanic Origin of Householder	2.2
Population in Families	4.6
Age	1.4
Sex	2.1
Population of One Race	12.8
Population of Two or More Races	2.3
White Alone	4.1
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	2.9
Hispanic or Latino	2.6
Not Hispanic or Latino	1.5
Marital Status	1.2
Relationship	1.4
Ancestry	2.1
Grandparents Responsible for Grandchildren	1.6
Number of Women Who Had a Birth in the Past 12 Months	1.6
Language Spoken at Home and Ability to Speak English	1.8
Linguistic Isolation	1.5
Place of Birth, Year of Entry, and Citizenship Status	2.1
Residence 1 Year Ago	2.5
School Enrollment, Level of School, and Type of School	1.3
Educational Attainment	1.4
Armed Forces Status and Veteran Status	1.3
Period of Military Service	1.3
Disability Status	1.2
Employment/Work Status	1.2
Industry, Occupation, and Class of Worker	1.4

Table C-2000. Standard Error Design Factors - 2000 American Community Survey - Hampden County, MA   (Page 2 of 3)

Characteristics	Design Factor
Travel Time to Work	1.5
Means of Transportation to Work	1.7
Place of Work	1.5
Time Leaving Home to go to Work	1.5
Private Vehicle Occupancy	1.8
Work Experience, Hours Worked per Week, and Weeks Worked	1.4
Number of Workers in Family	1.4
Family Type, Household Type, and Household Size	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
Households by Presence of Nonrelatives	2.3
Age of Own Children by Living Arrangements and Employment Status of Parents	1.9
Age of Householder	1.3
Race of Householder	1.4
Hispanic Origin of Householder	1.3
Household, Family, or Nonfamily Income	1.4
Person Earnings/Income	1.4
Type of Household Income	1.5
Poverty Status (Persons)	1.3
Poverty Status (Families/Households)	1.4
Ratio of Income to Poverty Level	2.8
Receipt of Food Stamps and Participation in Free or Reduced Price Meals	1.5
Participation in Federal Home Heating and Cooling Assistance Program	1.6
HOUSING	
Occupied Housing Units	3.8
Tenure	1.6
Vacant	1.8
Rooms and Bedrooms	1.5
Occupants per Room	1.4
Units in Structure	1.5
Year Structure Built and Year Householder Moved Into Unit	1.4

Table C-2000. Standard Error Design Factors - 2000 American Community Survey - Hampden County, MA   (Page 3 of 3)

Characteristics	Design Factor
House Heating Fuel	1.4
Telephone Service Available	1.6
Vehicles Available	1.4
Plumbing Facilities and Kitchen Facilities	2.3
Gross Rent, Gross Rent as a Percentage Of Household Income, and Contract Rent	1.6
Meals Included in Rent	1.5
Rent Asked	1.9
Inclusion of Utilities in Rent	1.5
Value	1.2
Price Asked	2.0
Mortgage Status and Selected Monthly Owner Costs	1.3
Population by Tenure	3.0

Table C-2000. Standard Error Design Factors - 2000 American Community Survey - Madison County, MS   (Page 1 of 3)

Characteristics	Design Factor
POPULATION	
Families and Nonfamilies	1.6
Population in Households by Race/Hispanic Origin of Householder	1.9
Population in Families	5.4
Age	1.5
Sex	2.1
Population of One Race	24.8
Population of Two or More Races	1.6
White Alone	2.9
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	2.3
Hispanic or Latino	1.7
Not Hispanic or Latino	3.0
Marital Status	1.2
Relationship	1.3
Ancestry	2.1
Grandparents Responsible for Grandchildren	1.6
Number of Women Who Had a Birth in the Past 12 Months	0.9
Language Spoken at Home and Ability to Speak English	1.8
Linguistic Isolation	1.5
Place of Birth, Year of Entry, and Citizenship Status	1.8
Residence 1 Year Ago	2.5
School Enrollment, Level of School, and Type of School	1.5
Educational Attainment	1.5
Armed Forces Status and Veteran Status	1.3
Period of Military Service	1.5
Disability Status	1.3
Employment/Work Status	1.4
Industry, Occupation, and Class of Worker	1.5

Table C-2000. Standard Error Design Factors - 2000 American Community Survey - Madison County, MS   (Page 2 of 3)

Characteristics	Design Factor
Travel Time to Work	1.7
Means of Transportation to Work	1.7
Place of Work	1.6
Time Leaving Home to go to Work	1.6
Private Vehicle Occupancy	1.7
Work Experience, Hours Worked per Week, and Weeks Worked	1.4
Number of Workers in Family	1.5
Family Type, Household Type, and Household Size	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
Households by Presence of Nonrelatives	2.2
Age of Own Children by Living Arrangements and Employment Status of Parents	1.9
Age of Householder	1.4
Race of Householder	1.1
Hispanic Origin of Householder	1.3
Household, Family, or Nonfamily Income	1.5
Person Earnings/Income	1.5
Type of Household Income	1.6
Poverty Status (Persons)	1.6
Poverty Status (Families/Households)	1.5
Ratio of Income to Poverty Level	2.8
Receipt of Food Stamps and Participation in Free or Reduced Price Meals	1.5
Participation in Federal Home Heating and Cooling Assistance Program	1.6
HOUSING	
Occupied Housing Units	3.6
Tenure	1.5
Vacant	1.9
Rooms and Bedrooms	1.5
Occupants per Room	1.5
Units in Structure	1.6
Year Structure Built and Year Householder Moved Into Unit	1.5

Table C-2000.   Standard Error Design Factors - 2000 American Community Survey -
Madison County, MS   (Page 3 of 3)

Characteristics	Design Factor
House Heating Fuel	1.4
Telephone Service Available	1.6
Vehicles Available	1.6
Plumbing Facilities and Kitchen Facilities	2.3
Gross Rent, Gross Rent as a Percentage Of Household Income, and Contract Rent	1.7
Meals Included in Rent	1.4
Rent Asked	2.0
Inclusion of Utilities in Rent	1.5
Value	1.3
Price Asked	1.9
Mortgage Status and Selected Monthly Owner Costs	1.4
Population by Tenure	3.0

Table C-2000. Standard Error Design Factors - 2000 American Community Survey -
Flathead / Lake Counties, MT   (Page 1 of 3)

Characteristics	Design Factor
POPULATION	
Families and Nonfamilies	1.5
Population in Households by Race/Hispanic Origin of Householder	3.1
Population in Families	4.7
Age	1.3
Sex	2.0
Population of One Race	7.0
Population of Two or More Races	2.7
White Alone	4.6
Black or African American Alone	3.8
American Indian and Alaska Native Alone, Asian Alone, Native Hawaiian and Other Pacific Islander Alone, or Some Other Race Alone	2.7
Hispanic or Latino	2.2
Not Hispanic or Latino	2.7
Marital Status	1.2
Relationship	1.3
Ancestry	1.9
Grandparents Responsible for Grandchildren	1.6
Number of Women Who Had a Birth in the Past 12 Months	1.3
Language Spoken at Home and Ability to Speak English	1.4
Linguistic Isolation	1.4
Place of Birth, Year of Entry, and Citizenship Status	1.8
Residence 1 Year Ago	3.1
School Enrollment, Level of School, and Type of School	1.3
Educational Attainment	1.3
Armed Forces Status and Veteran Status	1.1
Period of Military Service	1.3
Disability Status	1.1
Employment/Work Status	1.2
Industry, Occupation, and Class of Worker	1.4

Table C-2000. Standard Error Design Factors - 2000 American Community Survey -
Flathead / Lake Counties, MT   (Page 2 of 3)

Characteristics	Design Factor
Travel Time to Work	1.5
Means of Transportation to Work	1.6
Place of Work	1.5
Time Leaving Home to go to Work	1.5
Private Vehicle Occupancy	1.6
Work Experience, Hours Worked per Week, and Weeks Worked	1.3
Number of Workers in Family	1.4
Family Type, Household Type, and Household Size	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
Households by Presence of Nonrelatives	2.2
Age of Own Children by Living Arrangements and Employment Status of Parents	1.9
Age of Householder	1.3
Race of Householder	1.6
Hispanic Origin of Householder	1.6
Household, Family, or Nonfamily Income	1.4
Person Earnings/Income	1.4
Type of Household Income	1.4
Poverty Status (Persons)	1.4
Poverty Status (Families/Households)	1.5
Ratio of Income to Poverty Level	2.7
Receipt of Food Stamps and Participation in Free or Reduced Price Meals	1.5
Participation in Federal Home Heating and Cooling Assistance Program	1.5
HOUSING	
Occupied Housing Units	2.5
Tenure	1.5
Vacant	1.4
Rooms and Bedrooms	1.5
Occupants per Room	1.4
Units in Structure	1.7
Year Structure Built and Year Householder Moved Into Unit	1.4

Table C-2000. Standard Error Design Factors - 2000 American Community Survey -
Flathead / Lake Counties, MT   (Page 3 of 3)

Characteristics	Design Factor
House Heating Fuel	1.5
Telephone Service Available	1.5
Vehicles Available	1.3
Plumbing Facilities and Kitchen Facilities	1.6
Gross Rent, Gross Rent as a Percentage Of Household Income, and Contract Rent	1.6
Meals Included in Rent	1.6
Rent Asked	2.0
Inclusion of Utilities in Rent	1.6
Value	1.4
Price Asked	1.9
Mortgage Status and Selected Monthly Owner Costs	1.4
Population by Tenure	2.9

Table C-2000. Standard Error Design Factors - 2000 American Community Survey -
Douglas County, NE   (Page 1 of 3)

Characteristics	Design Factor
POPULATION	
Families and Nonfamilies	1.3
Population in Households by Race/Hispanic Origin of Householder	1.6
Population in Families	2.5
Age	0.9
Sex	1.0
Population of One Race	6.3
Population of Two or More Races	2.0
White Alone	2.0
Black or African American Alone	0.5
American Indian and Alaska Native Alone, Asian Alone, Native Hawaiian and Other Pacific Islander Alone, or Some Other Race Alone	2.2
Hispanic or Latino	1.4
Not Hispanic or Latino	1.5
Marital Status	1.1
Relationship	1.2
Ancestry	1.8
Grandparents Responsible for Grandchildren	1.6
Number of Women Who Had a Birth in the Past 12 Months	0.8
Language Spoken at Home and Ability to Speak English	1.4
Linguistic Isolation	1.3
Place of Birth, Year of Entry, and Citizenship Status	1.8
Residence 1 Year Ago	2.5
School Enrollment, Level of School, and Type of School	1.1
Educational Attainment	1.2
Armed Forces Status and Veteran Status	1.0
Period of Military Service	1.2
Disability Status	0.9
Employment/Work Status	0.9
Industry, Occupation, and Class of Worker	1.3

Table C-2000. Standard Error Design Factors - 2000 American Community Survey - Douglas County, NE   (Page 2 of 3)

Characteristics	Design Factor
Travel Time to Work	1.4
Means of Transportation to Work	1.3
Place of Work	1.3
Time Leaving Home to go to Work	1.4
Private Vehicle Occupancy	1.4
Work Experience, Hours Worked per Week, and Weeks Worked	1.2
Number of Workers in Family	1.3
Family Type, Household Type, and Household Size	1.2
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	1.1
Households by Presence of Nonrelatives	1.9
Age of Own Children by Living Arrangements and Employment Status of Parents	1.6
Age of Householder	1.2
Race of Householder	1.1
Hispanic Origin of Householder	1.2
Household, Family, or Nonfamily Income	1.3
Person Earnings/Income	1.4
Type of Household Income	1.3
Poverty Status (Persons)	1.0
Poverty Status (Families/Households)	1.3
Ratio of Income to Poverty Level	2.5
Receipt of Food Stamps and Participation in Free or Reduced Price Meals	1.3
Participation in Federal Home Heating and Cooling Assistance Program	1.2
HOUSING	
Occupied Housing Units	2.1
Tenure	1.1
Vacant	1.8
Rooms and Bedrooms	1.3
Occupants per Room	1.3
Units in Structure	1.2
Year Structure Built and Year Householder Moved Into Unit	1.3

Table C-2000. Standard Error Design Factors - 2000 American Community Survey -
Douglas County, NE   (Page 3 of 3)

Characteristics	Design Factor
House Heating Fuel	1.2
Telephone Service Available	1.1
Vehicles Available	1.3
Plumbing Facilities and Kitchen Facilities	1.7
Gross Rent, Gross Rent as a Percentage Of Household Income, and Contract Rent	1.5
Meals Included in Rent	1.1
Rent Asked	1.9
Inclusion of Utilities in Rent	1.1
Value	1.2
Price Asked	2.0
Mortgage Status and Selected Monthly Owner Costs	1.2
Population by Tenure	2.1

Table C-2000. Standard Error Design Factors - 2000 American Community Survey - Bronx Borough, NY   (Page 1 of 3)

Characteristics	Design Factor
POPULATION	
Families and Nonfamilies	2.1
Population in Households by Race/Hispanic Origin of Householder	2.1
Population in Families	10.9
Age	1.4
Sex	1.0
Population of One Race	2.7
Population of Two or More Races	2.8
White Alone	2.6
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	2.5
Hispanic or Latino	3.7
Not Hispanic or Latino	1.1
Marital Status	1.8
Relationship	1.9
Ancestry	3.0
Grandparents Responsible for Grandchildren	2.0
Number of Women Who Had a Birth in the Past 12 Months	1.1
Language Spoken at Home and Ability to Speak English	1.9
Linguistic Isolation	1.8
Place of Birth, Year of Entry, and Citizenship Status	3.0
Residence 1 Year Ago	3.7
School Enrollment, Level of School, and Type of School	1.2
Educational Attainment	1.9
Armed Forces Status and Veteran Status	1.1
Period of Military Service	2.0
Disability Status	1.3
Employment/Work Status	1.3
Industry, Occupation, and Class of Worker	2.0

Table C-2000. Standard Error Design Factors - 2000 American Community Survey -
Bronx Borough, NY   (Page 2 of 3)

Characteristics	Design Factor
Travel Time to Work	2.2
Means of Transportation to Work	2.3
Place of Work	2.0
Time Leaving Home to go to Work	2.3
Private Vehicle Occupancy	2.1
Work Experience, Hours Worked per Week, and Weeks Worked	1.6
Number of Workers in Family	2.0
Family Type, Household Type, and Household Size	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	1.7
Households by Presence of Nonrelatives	2.8
Age of Own Children by Living Arrangements and Employment Status of Parents	2.2
Age of Householder	1.6
Race of Householder	1.6
Hispanic Origin of Householder	1.4
Household, Family, or Nonfamily Income	2.1
Person Earnings/Income	2.0
Type of Household Income	1.9
Poverty Status (Persons)	1.9
Poverty Status (Families/Households)	2.1
Ratio of Income to Poverty Level	3.7
Receipt of Food Stamps and Participation in Free or Reduced Price Meals	2.0
Participation in Federal Home Heating and Cooling Assistance Program	1.9
HOUSING	
Occupied Housing Units	2.2
Tenure	1.9
Vacant	2.2
Rooms and Bedrooms	2.0
Occupants per Room	1.8
Units in Structure	2.0
Year Structure Built and Year Householder Moved Into Unit	2.0

Table C-2000. Standard Error Design Factors - 2000 American Community Survey -
Bronx Borough, NY   (Page 3 of 3)

Characteristics	Design Factor
House Heating Fuel	1.9
Telephone Service Available	2.0
Vehicles Available	2.0
Plumbing Facilities and Kitchen Facilities	2.2
Gross Rent, Gross Rent as a Percentage Of Household Income, and Contract Rent	2.1
Meals Included in Rent	1.6
Rent Asked	2.2
Inclusion of Utilities in Rent	1.9
Value	1.9
Price Asked	2.1
Mortgage Status and Selected Monthly Owner Costs	1.7
Population by Tenure	3.9

Table C-2000. Standard Error Design Factors - 2000 American Community Survey - Rockland County, NY   (Page 1 of 3)

Characteristics	Design Factor
POPULATION	
Families and Nonfamilies	1.6
Population in Households by Race/Hispanic Origin of Householder	2.6
Population in Families	7.2
Age	1.5
Sex	2.6
Population of One Race	18.1
Population of Two or More Races	1.9
White Alone	5.1
Black or African American Alone	3.4
American Indian and Alaska Native Alone, Asian Alone, Native Hawaiian and Other Pacific Islander Alone, or Some Other Race Alone	3.1
Hispanic or Latino	3.0
Not Hispanic or Latino	4.0
Marital Status	1.3
Relationship	1.5
Ancestry	2.3
Grandparents Responsible for Grandchildren	1.7
Number of Women Who Had a Birth in the Past 12 Months	1.7
Language Spoken at Home and Ability to Speak English	2.0
Linguistic Isolation	1.4
Place of Birth, Year of Entry, and Citizenship Status	2.1
Residence 1 Year Ago	2.8
School Enrollment, Level of School, and Type of School	1.4
Educational Attainment	1.4
Armed Forces Status and Veteran Status	1.3
Period of Military Service	1.3
Disability Status	1.3
Employment/Work Status	1.3
Industry, Occupation, and Class of Worker	1.4

Table C-2000. Standard Error Design Factors - 2000 American Community Survey -
Rockland County, NY   (Page 2 of 3)

Characteristics	Design Factor
Travel Time to Work	1.6
Means of Transportation to Work	1.7
Place of Work	1.6
Time Leaving Home to go to Work	1.6
Private Vehicle Occupancy	1.8
Work Experience, Hours Worked per Week, and Weeks Worked	1.4
Number of Workers in Family	1.4
Family Type, Household Type, and Household Size	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
Households by Presence of Nonrelatives	2.3
Age of Own Children by Living Arrangements and Employment Status of Parents	2.1
Age of Householder	1.4
Race of Householder	1.4
Hispanic Origin of Householder	1.3
Household, Family, or Nonfamily Income	1.5
Person Earnings/Income	1.4
Type of Household Income	1.6
Poverty Status (Persons)	1.4
Poverty Status (Families/Households)	1.5
Ratio of Income to Poverty Level	3.5
Receipt of Food Stamps and Participation in Free or Reduced Price Meals	1.5
Participation in Federal Home Heating and Cooling Assistance Program	1.5
HOUSING	
Occupied Housing Units	5.8
Tenure	1.6
Vacant	1.8
Rooms and Bedrooms	1.5
Occupants per Room	1.6
Units in Structure	1.5
Year Structure Built and Year Householder Moved Into Unit	1.4

Table C-2000. Standard Error Design Factors - 2000 American Community Survey - Rockland County, NY   (Page 3 of 3)

Characteristics	Design Factor
House Heating Fuel	1.5
Telephone Service Available	1.6
Vehicles Available	1.4
Plumbing Facilities and Kitchen Facilities	2.7
Gross Rent, Gross Rent as a Percentage Of Household Income, and Contract Rent	1.6
Meals Included in Rent	1.5
Rent Asked	1.7
Inclusion of Utilities in Rent	1.6
Value	1.4
Price Asked	1.3
Mortgage Status and Selected Monthly Owner Costs	1.4
Population by Tenure	3.3

Table C-2000. Standard Error Design Factors - 2000 American Community Survey -
Franklin County, OH   (Page 1 of 3)

Characteristics	Design Factor
POPULATION	
Families and Nonfamilies	1.6
Population in Households by Race/Hispanic Origin of Householder	2.1
Population in Families	4.5
Age	1.5
Sex	2.1
Population of One Race	13.2
Population of Two or More Races	2.9
White Alone	3.7
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	2.1
Hispanic or Latino	2.9
Not Hispanic or Latino	2.6
Marital Status	1.5
Relationship	1.7
Ancestry	2.5
Grandparents Responsible for Grandchildren	2.1
Number of Women Who Had a Birth in the Past 12 Months	1.9
Language Spoken at Home and Ability to Speak English	2.2
Linguistic Isolation	1.8
Place of Birth, Year of Entry, and Citizenship Status	2.5
Residence 1 Year Ago	3.4
School Enrollment, Level of School, and Type of School	1.6
Educational Attainment	1.7
Armed Forces Status and Veteran Status	1.4
Period of Military Service	1.7
Disability Status	1.5
Employment/Work Status	1.4
Industry, Occupation, and Class of Worker	1.8

Table C-2000. Standard Error Design Factors - 2000 American Community Survey - Franklin County, OH   (Page 2 of 3)

Characteristics	Design Factor
Travel Time to Work	1.9
Means of Transportation to Work	1.9
Place of Work	1.8
Time Leaving Home to go to Work	1.9
Private Vehicle Occupancy	2.2
Work Experience, Hours Worked per Week, and Weeks Worked	1.7
Number of Workers in Family	1.7
Family Type, Household Type, and Household Size	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
Households by Presence of Nonrelatives	2.6
Age of Own Children by Living Arrangements and Employment Status of Parents	2.2
Age of Householder	1.5
Race of Householder	1.4
Hispanic Origin of Householder	1.6
Household, Family, or Nonfamily Income	1.8
Person Earnings/Income	1.8
Type of Household Income	1.7
Poverty Status (Persons)	1.6
Poverty Status (Families/Households)	1.7
Ratio of Income to Poverty Level	3.2
Receipt of Food Stamps and Participation in Free or Reduced Price Meals	1.8
Participation in Federal Home Heating and Cooling Assistance Program	1.8
HOUSING	
Occupied Housing Units	3.1
Tenure	1.6
Vacant	2.2
Rooms and Bedrooms	1.7
Occupants per Room	1.8
Units in Structure	1.8
Year Structure Built and Year Householder Moved Into Unit	1.7

Table C-2000. Standard Error Design Factors - 2000 American Community Survey - Franklin County, OH   (Page 3 of 3)

Characteristics	Design Factor
House Heating Fuel	1.9
Telephone Service Available	1.6
Vehicles Available	1.7
Plumbing Facilities and Kitchen Facilities	2.3
Gross Rent, Gross Rent as a Percentage Of Household Income, and Contract Rent	1.9
Meals Included in Rent	1.6
Rent Asked	2.3
Inclusion of Utilities in Rent	1.6
Value	1.6
Price Asked	2.3
Mortgage Status and Selected Monthly Owner Costs	1.6
Population by Tenure	2.8

Table C-2000. Standard Error Design Factors - 2000 American Community Survey - Multnomah County, OR   (Page 1 of 3)

Characteristics	Design Factor
POPULATION	
Families and Nonfamilies	1.3
Population in Households by Race/Hispanic Origin of Householder	2.1
Population in Families	2.9
Age	1.0
Sex	1.5
Population of One Race	6.7
Population of Two or More Races	2.1
White Alone	2.9
Black or African American Alone	1.3
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	2.7
Not Hispanic or Latino	1.5
Marital Status	1.2
Relationship	1.3
Ancestry	1.9
Grandparents Responsible for Grandchildren	1.5
Number of Women Who Had a Birth in the Past 12 Months	0.8
Language Spoken at Home and Ability to Speak English	1.7
Linguistic Isolation	1.3
Place of Birth, Year of Entry, and Citizenship Status	2.0
Residence 1 Year Ago	2.3
School Enrollment, Level of School, and Type of School	1.2
Educational Attainment	1.3
Armed Forces Status and Veteran Status	1.0
Period of Military Service	1.3
Disability Status	1.1
Employment/Work Status	1.0
Industry, Occupation, and Class of Worker	1.4

Table C-2000. Standard Error Design Factors - 2000 American Community Survey -
Multnomah County, OR   (Page 2 of 3)

Characteristics	Design Factor
Travel Time to Work	1.6
Means of Transportation to Work	1.4
Place of Work	1.5
Time Leaving Home to go to Work	1.5
Private Vehicle Occupancy	1.4
Work Experience, Hours Worked per Week, and Weeks Worked	1.3
Number of Workers in Family	1.4
Family Type, Household Type, and Household Size	1.3
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	1.2
Households by Presence of Nonrelatives	2.1
Age of Own Children by Living Arrangements and Employment Status of Parents	1.7
Age of Householder	1.3
Race of Householder	1.3
Hispanic Origin of Householder	1.3
Household, Family, or Nonfamily Income	1.4
Person Earnings/Income	1.4
Type of Household Income	1.3
Poverty Status (Persons)	1.2
Poverty Status (Families/Households)	1.4
Ratio of Income to Poverty Level	2.6
Receipt of Food Stamps and Participation in Free or Reduced Price Meals	1.4
Participation in Federal Home Heating and Cooling Assistance Program	1.4
HOUSING	
Occupied Housing Units	2.6
Tenure	1.2
Vacant	1.7
Rooms and Bedrooms	1.4
Occupants per Room	1.4
Units in Structure	1.4
Year Structure Built and Year Householder Moved Into Unit	1.3

Table C-2000. Standard Error Design Factors - 2000 American Community Survey - Multnomah County, OR   (Page 3 of 3)

Characteristics	Design Factor
House Heating Fuel	1.5
Telephone Service Available	1.3
Vehicles Available	1.4
Plumbing Facilities and Kitchen Facilities	1.9
Gross Rent, Gross Rent as a Percentage Of Household Income, and Contract Rent	1.5
Meals Included in Rent	1.4
Rent Asked	1.9
Inclusion of Utilities in Rent	1.4
Value	1.2
Price Asked	1.8
Mortgage Status and Selected Monthly Owner Costs	1.3
Population by Tenure	2.4

Table C-2000. Standard Error Design Factors - 2000 American Community Survey -
Schuylkill County, PA   (Page 1 of 3)

Characteristics	Design Factor
POPULATION	
Families and Nonfamilies	1.2
Population in Households by Race/Hispanic Origin of Householder	4.1
Population in Families	4.3
Age	1.2
Sex	1.9
Population of One Race	18.0
Population of Two or More Races	1.9
White Alone	6.5
Black or African American Alone	1.5
American Indian and Alaska Native Alone, Asian Alone, Native Hawaiian and Other Pacific Islander Alone, or Some Other Race Alone	3.7
Hispanic or Latino	4.0
Not Hispanic or Latino	4.2
Marital Status	1.0
Relationship	1.2
Ancestry	1.8
Grandparents Responsible for Grandchildren	1.4
Number of Women Who Had a Birth in the Past 12 Months	1.3
Language Spoken at Home and Ability to Speak English	1.5
Linguistic Isolation	1.2
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	1.2
Educational Attainment	1.2
Armed Forces Status and Veteran Status	1.2
Period of Military Service	1.3
Disability Status	1.0
Employment/Work Status	1.0
Industry, Occupation, and Class of Worker	1.3

Characteristics	Design Factor
Travel Time to Work	1.5
Means of Transportation to Work	1.6
Place of Work	1.5
Time Leaving Home to go to Work	1.3
Private Vehicle Occupancy	1.4
Work Experience, Hours Worked per Week, and Weeks Worked	1.3
Number of Workers in Family	1.2
Family Type, Household Type, and Household Size	1.2
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
Households by Presence of Nonrelatives	2.0
Age of Own Children by Living Arrangements and Employment Status of Parents	1.6
Age of Householder	1.1
Race of Householder	1.6
Hispanic Origin of Householder	1.7
Household, Family, or Nonfamily Income	1.3
Person Earnings/Income	1.3
Type of Household Income	1.3
Poverty Status (Persons)	1.3
Poverty Status (Families/Households)	1.3
Ratio of Income to Poverty Level	2.3
Receipt of Food Stamps and Participation in Free or Reduced Price Meals	1.3
Participation in Federal Home Heating and Cooling Assistance Program	1.4
HOUSING	
Occupied Housing Units	2.4
Tenure	1.5
Vacant	1.7
Rooms and Bedrooms	1.3
Occupants per Room	1.4
Units in Structure	1.4
Year Structure Built and Year Householder Moved Into Unit	1.3

Table C-2000. Standard Error Design Factors - 2000 American Community Survey - Schuylkill County, PA   (Page 3 of 3)

Characteristics	Design Factor
House Heating Fuel	1.3
Telephone Service Available	1.5
Vehicles Available	1.3
Plumbing Facilities and Kitchen Facilities	1.8
Gross Rent, Gross Rent as a Percentage Of Household Income, and Contract Rent	1.4
Meals Included in Rent	1.4
Rent Asked	1.9
Inclusion of Utilities in Rent	1.5
Value	1.2
Price Asked	1.8
Mortgage Status and Selected Monthly Owner Costs	1.2
Population by Tenure	2.8

Table C-2000. Standard Error Design Factors - 2000 American Community Survey - Sevier County, TN   (Page 1 of 3)

Characteristics	Design Factor
POPULATION	
Families and Nonfamilies	1.8
Population in Households by Race/Hispanic Origin of Householder	3.9
Population in Families	4.4
Age	1.3
Sex	1.8
Population of One Race	9.8
Population of Two or More Races	3.2
White Alone	8.6
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	2.5
Hispanic or Latino	2.4
Not Hispanic or Latino	3.4
Marital Status	1.3
Relationship	1.3
Ancestry	2.2
Grandparents Responsible for Grandchildren	1.6
Number of Women Who Had a Birth in the Past 12 Months	0.8
Language Spoken at Home and Ability to Speak English	1.0
Linguistic Isolation	1.4
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	1.3
Educational Attainment	1.4
Armed Forces Status and Veteran Status	1.2
Period of Military Service	1.6
Disability Status	1.2
Employment/Work Status	1.2
Industry, Occupation, and Class of Worker	1.5

Table C-2000. Standard Error Design Factors - 2000 American Community Survey -
Sevier County, TN   (Page 2 of 3)

Characteristics	Design Factor
Travel Time to Work	1.6
Means of Transportation to Work	1.6
Place of Work	1.7
Time Leaving Home to go to Work	1.6
Private Vehicle Occupancy	1.6
Work Experience, Hours Worked per Week, and Weeks Worked	1.3
Number of Workers in Family	1.5
Family Type, Household Type, and Household Size	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	1.4
Households by Presence of Nonrelatives	2.2
Age of Own Children by Living Arrangements and Employment Status of Parents	1.7
Age of Householder	1.4
Race of Householder	1.8
Hispanic Origin of Householder	1.8
Household, Family, or Nonfamily Income	1.6
Person Earnings/Income	1.5
Type of Household Income	1.5
Poverty Status (Persons)	1.2
Poverty Status (Families/Households)	1.7
Ratio of Income to Poverty Level	2.6
Receipt of Food Stamps and Participation in Free or Reduced Price Meals	1.6
Participation in Federal Home Heating and Cooling Assistance Program	1.3
HOUSING	
Occupied Housing Units	2.5
Tenure	1.6
Vacant	1.8
Rooms and Bedrooms	1.6
Occupants per Room	1.6
Units in Structure	1.7
Year Structure Built and Year Householder Moved Into Unit	1.6

Table C-2000. Standard Error Design Factors - 2000 American Community Survey -
Sevier County, TN   (Page 3 of 3)

Characteristics	Design Factor
House Heating Fuel	1.5
Telephone Service Available	1.6
Vehicles Available	1.5
Plumbing Facilities and Kitchen Facilities	1.9
Gross Rent, Gross Rent as a Percentage Of Household Income, and Contract Rent	1.7
Meals Included in Rent	1.6
Rent Asked	1.8
Inclusion of Utilities in Rent	1.6
Value	1.5
Price Asked	2.1
Mortgage Status and Selected Monthly Owner Costs	1.4
Population by Tenure	2.9

Table C-2000. Standard Error Design Factors - 2000 American Community Survey -
Fort Bend / Harris Counties, TX   (Page 1 of 3)

Characteristics	Design Factor
POPULATION	
Families and Nonfamilies	3.3
Population in Households by Race/Hispanic Origin of Householder	5.1
Population in Families	10.8
Age	2.9
Sex	4.3
Population of One Race	29.5
Population of Two or More Races	4.0
White Alone	7.4
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	6.2
Hispanic or Latino	4.8
Not Hispanic or Latino	4.8
Marital Status	2.9
Relationship	3.1
Ancestry	4.4
Grandparents Responsible for Grandchildren	3.5
Number of Women Who Had a Birth in the Past 12 Months	3.1
Language Spoken at Home and Ability to Speak English	3.7
Linguistic Isolation	3.2
Place of Birth, Year of Entry, and Citizenship Status	4.4
Residence 1 Year Ago	5.9
School Enrollment, Level of School, and Type of School	2.8
Educational Attainment	3.1
Armed Forces Status and Veteran Status	2.6
Period of Military Service	3.0
Disability Status	2.6
Employment/Work Status	2.5
Industry, Occupation, and Class of Worker	3.3

Characteristics	Design Factor
Travel Time to Work	3.6
Means of Transportation to Work	3.9
Place of Work	3.6
Time Leaving Home to go to Work	3.5
Private Vehicle Occupancy	4.1
Work Experience, Hours Worked per Week, and Weeks Worked	2.9
Number of Workers in Family	3.3
Family Type, Household Type, and Household Size	3.2
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	3.0
Households by Presence of Nonrelatives	5.9
Age of Own Children by Living Arrangements and Employment Status of Parents	4.1
Age of Householder	2.9
Race of Householder	2.8
Hispanic Origin of Householder	2.9
Household, Family, or Nonfamily Income	3.3
Person Earnings/Income	3.2
Type of Household Income	3.4
Poverty Status (Persons)	3.1
Poverty Status (Families/Households)	3.5
Ratio of Income to Poverty Level	6.8
Receipt of Food Stamps and Participation in Free or Reduced Price Meals	3.4
Participation in Federal Home Heating and Cooling Assistance Program	3.5
HOUSING	
Occupied Housing Units	8.8
Tenure	3.4
Vacant	3.9
Rooms and Bedrooms	3.2
Occupants per Room	3.3
Units in Structure	3.3
Year Structure Built and Year Householder Moved Into Unit	3.2

Table C-2000. Standard Error Design Factors - 2000 American Community Survey -
Fort Bend / Harris Counties, TX   (Page 3 of 3)

Characteristics	Design Factor
House Heating Fuel	3.4
Telephone Service Available	3.4
Vehicles Available	3.1
Plumbing Facilities and Kitchen Facilities	4.2
Gross Rent, Gross Rent as a Percentage Of Household Income, and Contract Rent	3.5
Meals Included in Rent	3.4
Rent Asked	4.0
Inclusion of Utilities in Rent	3.4
Value	2.8
Price Asked	3.9
Mortgage Status and Selected Monthly Owner Costs	2.9
Population by Tenure	6.4

Table C-2000. Standard Error Design Factors - 2000 American Community Survey -
Starr / Zapata Counties, TX   (Page 1 of 3)

Characteristics	Design Factor
POPULATION	
Families and Nonfamilies	1.7
Population in Households by Race/Hispanic Origin of Householder	4.2
Population in Families	12.5
Age	1.9
Sex	3.5
Population of One Race	18.6
Population of Two or More Races	2.9
White Alone	5.7
Black or African American Alone	1.1
American Indian and Alaska Native Alone, Asian Alone, Native Hawaiian and Other Pacific Islander Alone, or Some Other Race Alone	5.0
Hispanic or Latino	2.9
Not Hispanic or Latino	2.2
Marital Status	1.6
Relationship	1.8
Ancestry	2.7
Grandparents Responsible for Grandchildren	2.1
Number of Women Who Had a Birth in the Past 12 Months	2.1
Language Spoken at Home and Ability to Speak English	2.0
Linguistic Isolation	2.1
Place of Birth, Year of Entry, and Citizenship Status	2.5
Residence 1 Year Ago	3.3
School Enrollment, Level of School, and Type of School	1.8
Educational Attainment	1.7
Armed Forces Status and Veteran Status	1.6
Period of Military Service	1.4
Disability Status	1.7
Employment/Work Status	1.7
Industry, Occupation, and Class of Worker	1.8

Table C-2000. Standard Error Design Factors - 2000 American Community Survey -
Starr / Zapata Counties, TX   (Page 2 of 3)

Characteristics	Design Factor
Travel Time to Work	2.0
Means of Transportation to Work	2.0
Place of Work	2.2
Time Leaving Home to go to Work	1.9
Private Vehicle Occupancy	2.0
Work Experience, Hours Worked per Week, and Weeks Worked	1.9
Number of Workers in Family	1.8
Family Type, Household Type, and Household Size	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	1.7
Households by Presence of Nonrelatives	5.0
Age of Own Children by Living Arrangements and Employment Status of Parents	2.5
Age of Householder	1.7
Race of Householder	1.9
Hispanic Origin of Householder	1.8
Household, Family, or Nonfamily Income	1.8
Person Earnings/Income	1.8
Type of Household Income	1.8
Poverty Status (Persons)	2.2
Poverty Status (Families/Households)	1.9
Ratio of Income to Poverty Level	4.1
Receipt of Food Stamps and Participation in Free or Reduced Price Meals	1.9
Participation in Federal Home Heating and Cooling Assistance Program	2.0
HOUSING	
Occupied Housing Units	3.2
Tenure	1.9
Vacant	1.6
Rooms and Bedrooms	1.8
Occupants per Room	1.8
Units in Structure	2.1
Year Structure Built and Year Householder Moved Into Unit	1.8

Table C-2000. Standard Error Design Factors - 2000 American Community Survey - Starr / Zapata Counties, TX   (Page 3 of 3)

Characteristics	Design Factor
House Heating Fuel	1.8
Telephone Service Available	1.9
Vehicles Available	1.9
Plumbing Facilities and Kitchen Facilities	1.9
Gross Rent, Gross Rent as a Percentage Of Household Income, and Contract Rent	1.9
Meals Included in Rent	1.9
Rent Asked	1.5
Inclusion of Utilities in Rent	2.0
Value	1.8
Price Asked	1.7
Mortgage Status and Selected Monthly Owner Costs	1.8
Population by Tenure	4.4

Table C-2000. Standard Error Design Factors - 2000 American Community Survey -
Yakima County, WA   (Page 1 of 3)

Characteristics	Design Factor
POPULATION	
Families and Nonfamilies	1.7
Population in Households by Race/Hispanic Origin of Householder	2.8
Population in Families	6.6
Age	1.5
Sex	2.7
Population of One Race	10.1
Population of Two or More Races	2.9
White Alone	3.6
Black or African American Alone	3.1
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	4.0
Not Hispanic or Latino	1.7
Marital Status	1.3
Relationship	1.6
Ancestry	2.2
Grandparents Responsible for Grandchildren	1.8
Number of Women Who Had a Birth in the Past 12 Months	1.7
Language Spoken at Home and Ability to Speak English	2.1
Linguistic Isolation	1.7
Place of Birth, Year of Entry, and Citizenship Status	2.1
Residence 1 Year Ago	3.2
School Enrollment, Level of School, and Type of School	1.5
Educational Attainment	1.5
Armed Forces Status and Veteran Status	1.4
Period of Military Service	1.5
Disability Status	1.3
Employment/Work Status	1.3
Industry, Occupation, and Class of Worker	1.6

Table C-2000. Standard Error Design Factors - 2000 American Community Survey - Yakima County, WA   (Page 2 of 3)

Characteristics	Design Factor
Travel Time to Work	1.7
Means of Transportation to Work	1.7
Place of Work	1.8
Time Leaving Home to go to Work	1.7
Private Vehicle Occupancy	1.9
Work Experience, Hours Worked per Week, and Weeks Worked	1.5
Number of Workers in Family	1.5
Family Type, Household Type, and Household Size	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
Households by Presence of Nonrelatives	2.1
Age of Own Children by Living Arrangements and Employment Status of Parents	2.1
Age of Householder	1.4
Race of Householder	1.4
Hispanic Origin of Householder	1.3
Household, Family, or Nonfamily Income	1.5
Person Earnings/Income	1.5
Type of Household Income	1.6
Poverty Status (Persons)	1.7
Poverty Status (Families/Households)	1.6
Ratio of Income to Poverty Level	3.5
Receipt of Food Stamps and Participation in Free or Reduced Price Meals	1.6
Participation in Federal Home Heating and Cooling Assistance Program	1.6
HOUSING	
Occupied Housing Units	3.9
Tenure	1.6
Vacant	2.0
Rooms and Bedrooms	1.5
Occupants per Room	1.6
Units in Structure	1.6
Year Structure Built and Year Householder Moved Into Unit	1.5

Table C-2000. Standard Error Design Factors - 2000 American Community Survey - Yakima County, WA   (Page 3 of 3)

Characteristics	Design Factor
House Heating Fuel	1.6
Telephone Service Available	1.6
Vehicles Available	1.5
Plumbing Facilities and Kitchen Facilities	2.5
Gross Rent, Gross Rent as a Percentage Of Household Income, and Contract Rent	1.6
Meals Included in Rent	1.6
Rent Asked	1.9
Inclusion of Utilities in Rent	1.5
Value	1.5
Price Asked	2.0
Mortgage Status and Selected Monthly Owner Costs	1.4
Population by Tenure	3.7

Table D-2000   a, b, & c Parameters - 2000 American Community Survey -
             Pima County, AZ   (Page 1 of 2)

Characteristics	a	b	c
POPULATION			
Population	1521	107.972990	-0.000134
Households	1521	34.517417	-0.000074
Aggregate Travel Time to Work (In Minutes)-Total	1521	1,732.096466	-0.000115
Aggregate Travel Time to Work (In Minutes) by Travel Time to Work	1521	3,100.047836	-0.000701
Aggregate Travel Time to Work (In Minutes)-Public Transportation and Less Than 30 Minutes	1521	996.631679	0.000610
Aggregate Travel Time to Work (In Minutes)-Public Transportation and More Than 30 Minutes	1521	159.177571	0.028801
Aggregate Travel Time to Work (In Minutes)-Other Means	1521	3,179.628415	-0.000735
Aggregate Household Income, Earnings, Wages/Salary, Self-Employment, Interest, Dividends, or Net Rental Income	1521	2,618,558.162340	-0.000057
Aggregate Household Social Security Income	1521	323,904.968236	-0.000139
Aggregate Household Retirement Income	1521	2,570,740.615786	-0.001308
Aggregate Household Supplemental Security Income, Public Assistance Income, or Food Stamp Benefits	1521	135,175.956033	0.003977
Aggregate Household Other Types of Income	1521	3,776,235.635265	-0.002748
Aggregate Family or Nonfamily Income	1521	2,707,864.902098	-0.000057
Aggregate Family Income Deficit	1521	882,751.969837	-0.001180
Aggregate Person Income or Earnings	1521	2,618,558.162340	-0.000057
Aggregate Income Deficit of Unrelated Individuals	1521	425,759.602924	0.001104
HOUSING			
Housing Units	1521	28.049317	-0.000070
Aggregate Number of Rooms	1521	167.372196	-0.000072
Aggregate Number of Vehicles Available	1521	68.035376	-0.000071

Table D-2000. a, b, & c Parameters - 2000 American Community Survey -
Pima County, AZ   (Page 2 of 2)

Characteristics	a	b	c
Aggregate Rent	1521	28,127.001780	-0.000042
Aggregate Value	1521	4,982,666.924589	-0.000010
Aggregate Price Asked	1521	21,605,919.839581	-0.008768
Aggregate Selected Monthly Owner Costs- Total and With a Mortgage	1521	28,620.543770	-0.000013
Aggregate Selected Monthly Owner Costs- Without a Mortgage	1521	10,446.048985	-0.000127

Table D-2000   a, b, & c Parameters - 2000 American Community Survey -
Jefferson County, AR   (Page 1 of 2)

Characteristics	a	b	c
POPULATION			
Population	1521	161.434308	-0.002876
Households	1521	23.843580	-0.000397
Aggregate Travel Time to Work (In Minutes)-Total	1521	1,331.818873	-0.000674
Aggregate Travel Time to Work (In Minutes) by Travel Time to Work	1521	3,146.141940	-0.007931
Aggregate Travel Time to Work (In Minutes)-Public Transportation and Less Than 30 Minutes	1521	688.364283	0.041706
Aggregate Travel Time to Work (In Minutes)-Public Transportation and More Than 30 Minutes	1521	1,637.044478	0.046465
Aggregate Travel Time to Work (In Minutes)-Other Means	1521	3,123.562549	-0.007956
Aggregate Household Income, Earnings, Wages/Salary, Self-Employment, Interest, Dividends, or Net Rental Income	1521	1,563,131.698656	-0.000477
Aggregate Household Social Security Income	1521	376,343.772505	-0.002124
Aggregate Household Retirement Income	1521	551,002.490189	-0.001715
Aggregate Household Supplemental Security Income, Public Assistance Income, or Food Stamp Benefits	1521	153,732.015740	0.011812
Aggregate Household Other Types of Income	1521	267,053.212971	0.000098
Aggregate Family or Nonfamily Income	1521	1,677,766.571085	0.000075
Aggregate Family Income Deficit	1521	330,080.531617	0.005371
Aggregate Person Income or Earnings	1521	1,563,131.698656	-0.000477
Aggregate Income Deficit of Unrelated Individuals	1521	225,532.193585	0.009304
HOUSING			
Housing Units	1521	27.635325	-0.000788
Aggregate Number of Rooms	1521	171.392207	-0.000877
Aggregate Number of Vehicles Available	1521	48.419015	-0.000473

Table D-2000. a, b, & c Parameters - 2000 American Community Survey - Jefferson County, AR   (Page 2 of 2)

Characteristics	a	b	c
Aggregate Rent	1521	23,646.875540	-0.001871
Aggregate Value	1521	2,192,188.399539	-0.000135
Aggregate Price Asked	1521	13,113,898.993396	-0.012537
Aggregate Selected Monthly Owner Costs- Total and With a Mortgage	1521	21,236.351391	-0.000811
Aggregate Selected Monthly Owner Costs- Without a Mortgage	1521	7,584.617101	0.000747

Table D-2000   a, b, & c Parameters - 2000 American Community Survey -
San Francisco County, CA   (Page 1 of 2)

Characteristics	a	b	c
POPULATION			
Population	1936	144.355619	-0.000040
Households	1936	34.366555	-0.000035
Aggregate Travel Time to Work (In Minutes)-Total	1936	2,006.143062	0.000001
Aggregate Travel Time to Work (In Minutes) by Travel Time to Work	1936	10,752.741664	-0.002463
Aggregate Travel Time to Work (In Minutes)-Public Transportation and Less Than 30 Minutes	1936	3,239.301189	-0.001931
Aggregate Travel Time to Work (In Minutes)-Public Transportation and More Than 30 Minutes	1936	11,121.397647	-0.004389
Aggregate Travel Time to Work (In Minutes)-Other Means	1936	8,168.515089	-0.002857
Aggregate Household Income, Earnings, Wages/Salary, Self-Employment, Interest, Dividends, or Net Rental Income	1936	4,765,304.879702	0.000034
Aggregate Household Social Security Income	1936	535,920.179160	-0.000127
Aggregate Household Retirement Income	1936	1,498,887.240884	-0.000303
Aggregate Household Supplemental Security Income, Public Assistance Income, or Food Stamp Benefits	1936	563,473.686110	0.000516
Aggregate Household Other Types of Income	1936	3,424,731.916869	-0.000027
Aggregate Family or Nonfamily Income	1936	7,142,139.849026	-0.000111
Aggregate Family Income Deficit	1936	985,551.432788	0.001953
Aggregate Person Income or Earnings	1936	4,765,304.879702	0.000034
Aggregate Income Deficit of Unrelated Individuals	1936	592,811.219630	-0.000984
HOUSING			
Housing Units	1936	32.518555	0.000006
Aggregate Number of Rooms	1936	322.324185	-0.000198
Aggregate Number of Vehicles Available	1936	149.165376	-0.000263

Table D-2000. a, b, & c Parameters - 2000 American Community Survey -
San Francisco County, CA   (Page 2 of 2)

Characteristics	a	b	c
Aggregate Rent	1936	93,264.676940	-0.000245
Aggregate Value	1936	28,171,564.576916	0.000022
Aggregate Price Asked	1936	33,062,950.921441	0.022172
Aggregate Selected Monthly Owner Costs- Total and With a Mortgage	1936	211,423.731492	-0.000803
Aggregate Selected Monthly Owner Costs- Without a Mortgage	1936	24,297.090335	0.000168

Table D-2000   a, b, & c Parameters - 2000 American Community Survey - Tulare County, CA   (Page 1 of 2)

Characteristics	a	b	c
POPULATION			
Population	1521	143.812380	-0.000330
Households	1521	29.038789	-0.000170
Aggregate Travel Time to Work (In Minutes)-Total	1521	3,012.742957	-0.000517
Aggregate Travel Time to Work (In Minutes) by Travel Time to Work	1521	5,601.746069	-0.003965
Aggregate Travel Time to Work (In Minutes)-Public Transportation and Less Than 30 Minutes	1521	1,218.360184	-0.004832
Aggregate Travel Time to Work (In Minutes)-Public Transportation and More Than 30 Minutes	1521	634.202858	0.302407
Aggregate Travel Time to Work (In Minutes)-Other Means	1521	3,688.492004	-0.002525
Aggregate Household Income, Earnings, Wages/Salary, Self-Employment, Interest, Dividends, or Net Rental Income	1521	3,194,851.309456	-0.000372
Aggregate Household Social Security Income	1521	464,981.356629	-0.001087
Aggregate Household Retirement Income	1521	1,241,667.953579	-0.001527
Aggregate Household Supplemental Security Income, Public Assistance Income, or Food Stamp Benefits	1521	364,565.188516	0.000669
Aggregate Household Other Types of Income	1521	293,227.797790	0.014130
Aggregate Family or Nonfamily Income	1521	3,009,237.662295	-0.000221
Aggregate Family Income Deficit	1521	780,905.277347	-0.000127
Aggregate Person Income or Earnings	1521	3,194,851.309456	-0.000372
Aggregate Income Deficit of Unrelated Individuals	1521	308,343.668533	0.000790
HOUSING			
Housing Units	1521	31.942627	-0.000291
Aggregate Number of Rooms	1521	207.542204	-0.000296
Aggregate Number of Vehicles Available	1521	73.802216	-0.000214

Table D-2000. a, b, & c Parameters - 2000 American Community Survey -
Tulare County, CA   (Page 2 of 2)

Characteristics	a	b	c
Aggregate Rent	1521	26,320.237376	-0.000406
Aggregate Value	1521	5,168,784.163530	-0.000198
Aggregate Price Asked	1521	12,568,724.507653	-0.039031
Aggregate Selected Monthly Owner Costs- Total and With a Mortgage	1521	42,147.068156	-0.000401
Aggregate Selected Monthly Owner Costs- Without a Mortgage	1521	10,153.625138	0.000789

Table D-2000   a, b, & c Parameters - 2000 American Community Survey -
Broward County, FL   (Page 1 of 2)

Characteristics	a	b	c
POPULATION			
Population	1936	144.355619	-0.000040
Households	1936	34.366555	-0.000035
Aggregate Travel Time to Work (In Minutes)-Total	1936	2,006.143062	0.000001
Aggregate Travel Time to Work (In Minutes) by Travel Time to Work	1936	6,412.898146	-0.000760
Aggregate Travel Time to Work (In Minutes)-Public Transportation and Less Than 30 Minutes	1936	3,239.301189	-0.001931
Aggregate Travel Time to Work (In Minutes)-Public Transportation and More Than 30 Minutes	1936	4,776.643751	0.005610
Aggregate Travel Time to Work (In Minutes)-Other Means	1936	3,425.574652	-0.000337
Aggregate Household Income, Earnings, Wages/Salary, Self-Employment, Interest, Dividends, or Net Rental Income	1936	5,632,110.699969	-0.000064
Aggregate Household Social Security Income	1936	535,920.179160	-0.000127
Aggregate Household Retirement Income	1936	1,498,887.240884	-0.000303
Aggregate Household Supplemental Security Income, Public Assistance Income, or Food Stamp Benefits	1936	405,941.968942	0.000330
Aggregate Household Other Types of Income	1936	3,424,731.916869	-0.000027
Aggregate Family or Nonfamily Income	1936	7,142,139.849026	-0.000111
Aggregate Family Income Deficit	1936	926,279.498766	0.000456
Aggregate Person Income or Earnings	1936	5,632,110.699969	-0.000064
Aggregate Income Deficit of Unrelated Individuals	1936	339,800.633055	0.002465
HOUSING			
Housing Units	1936	32.518555	0.000006
Aggregate Number of Rooms	1936	207.394758	-0.000048
Aggregate Number of Vehicles Available	1936	75.005224	-0.000051

Table D-2000. a, b, & c Parameters - 2000 American Community Survey - Broward County, FL   (Page 2 of 2)

Characteristics	a	b	c
Aggregate Rent	1936	61,056.509773	-0.000155
Aggregate Value	1936	7,508,752.402211	-0.000028
Aggregate Price Asked	1936	33,062,950.921441	0.022172
Aggregate Selected Monthly Owner Costs- Total and With a Mortgage	1936	74,182.319460	-0.000092
Aggregate Selected Monthly Owner Costs- Without a Mortgage	1936	24,297.090335	0.000168

Table D-2000   a, b, & c Parameters - 2000 American Community Survey -
Lake County, IL   (Page 1 of 2)

Characteristics	a	b	c
POPULATION			
Population	1936	60.857696	0.001392
Households	1936	33.371122	-0.000105
Aggregate Travel Time to Work (In Minutes)-Total	1936	3,076.461574	-0.000186
Aggregate Travel Time to Work (In Minutes) by Travel Time to Work	1936	1,542.993877	0.000953
Aggregate Travel Time to Work (In Minutes)-Public Transportation and Less Than 30 Minutes	1936	1,266.140368	-0.004838
Aggregate Travel Time to Work (In Minutes)-Public Transportation and More Than 30 Minutes	1936	4,136.998856	-0.000779
Aggregate Travel Time to Work (In Minutes)-Other Means	1936	2,328.960236	0.000043
Aggregate Household Income, Earnings, Wages/Salary, Self-Employment, Interest, Dividends, or Net Rental Income	1936	9,861,904.928023	-0.000107
Aggregate Household Social Security Income	1936	699,369.679357	-0.000593
Aggregate Household Retirement Income	1936	2,424,322.295073	-0.001790
Aggregate Household Supplemental Security Income, Public Assistance Income, or Food Stamp Benefits	1936	286,989.051196	0.005485
Aggregate Household Other Types of Income	1936	4,441,955.164256	-0.000244
Aggregate Family or Nonfamily Income	1936	6,581,830.707863	0.000156
Aggregate Family Income Deficit	1936	1,751,206.310577	-0.010404
Aggregate Person Income or Earnings	1936	9,861,904.928023	-0.000107
Aggregate Income Deficit of Unrelated Individuals	1936	730,432.401635	-0.022778
HOUSING			
Housing Units	1936	20.122587	0.000449
Aggregate Number of Rooms	1936	222.477556	-0.000114
Aggregate Number of Vehicles Available	1936	79.593649	-0.000122

Table D-2000. a, b, & c Parameters - 2000 American Community Survey -
Lake County, IL   (Page 2 of 2)

Characteristics	a	b	c
Aggregate Rent	1936	60,502.852057	-0.000544
Aggregate Value	1936	13,400,215.183784	-0.000085
Aggregate Price Asked	1936	32,825,566.162813	-0.012185
Aggregate Selected Monthly Owner Costs- Total and With a Mortgage	1936	98,698.684877	-0.000175
Aggregate Selected Monthly Owner Costs- Without a Mortgage	1936	32,762.537760	-0.000190

Table D-2000   a, b, & c Parameters - 2000 American Community Survey -
Black Hawk County, IA   (Page 1 of 2)

Characteristics	a	b	c
POPULATION			
Population	1521	27.657867	-0.000208
Households	1521	9.137308	-0.000077
Aggregate Travel Time to Work (In Minutes)-Total	1521	768.880519	-0.000158
Aggregate Travel Time to Work (In Minutes) by Travel Time to Work	1521	1,559.739196	-0.002177
Aggregate Travel Time to Work (In Minutes)-Public Transportation and Less Than 30 Minutes	1521	595.989066	-0.117970
Aggregate Travel Time to Work (In Minutes)-Public Transportation and More Than 30 Minutes	1521	1,792.142101	-0.358479
Aggregate Travel Time to Work (In Minutes)-Other Means	1521	1,585.004262	-0.002214
Aggregate Household Income, Earnings, Wages/Salary, Self-Employment, Interest, Dividends, or Net Rental Income	1521	1,248,703.372161	-0.000216
Aggregate Household Social Security Income	1521	291,842.944016	-0.000804
Aggregate Household Retirement Income	1521	523,998.845193	-0.001367
Aggregate Household Supplemental Security Income, Public Assistance Income, or Food Stamp Benefits	1521	132,311.763598	0.000652
Aggregate Household Other Types of Income	1521	429,499.213912	-0.000198
Aggregate Family or Nonfamily Income	1521	1,236,138.229883	0.000008
Aggregate Family Income Deficit	1521	424,966.050473	-0.006092
Aggregate Person Income or Earnings	1521	1,248,703.372161	-0.000216
Aggregate Income Deficit of Unrelated Individuals	1521	348,866.636511	-0.003609
HOUSING			
Housing Units	1521	9.277120	-0.000168
Aggregate Number of Rooms	1521	123.378481	-0.000334
Aggregate Number of Vehicles Available	1521	37.574953	-0.000197

Table D-2000. a, b, & c Parameters - 2000 American Community Survey -
Black Hawk County, IA   (Page 2 of 2)

Characteristics	a	b	c
Aggregate Rent	1521	17,524.894760	-0.000836
Aggregate Value	1521	3,540,532.075382	-0.000028
Aggregate Price Asked	1521	383,476.450860	0.496764
Aggregate Selected Monthly Owner Costs- Total and With a Mortgage	1521	18,067.864617	-0.000188
Aggregate Selected Monthly Owner Costs- Without a Mortgage	1521	7,071.915843	-0.000364

Table D-2000   a, b, & c Parameters - 2000 American Community Survey - Calvert County, MD   (Page 1 of 2)

Characteristics	a	b	c
POPULATION			
Population	1521	46.323736	-0.000101
Households	1521	19.219283	-0.000617
Aggregate Travel Time to Work (In Minutes)-Total	1521	3,533.873905	-0.001567
Aggregate Travel Time to Work (In Minutes) by Travel Time to Work	1521	1,126.000168	0.002977
Aggregate Travel Time to Work (In Minutes)-Public Transportation and Less Than 30 Minutes	1521	293.542986	0.265101
Aggregate Travel Time to Work (In Minutes)-Public Transportation and More Than 30 Minutes	1521	1,025.369721	0.092977
Aggregate Travel Time to Work (In Minutes)-Other Means	1521	1,016.214323	0.003554
Aggregate Household Income, Earnings, Wages/Salary, Self-Employment, Interest, Dividends, or Net Rental Income	1521	2,276,283.649058	-0.000690
Aggregate Household Social Security Income	1521	547,304.335621	-0.004943
Aggregate Household Retirement Income	1521	944,072.695184	-0.000536
Aggregate Household Supplemental Security Income, Public Assistance Income, or Food Stamp Benefits	1521	108,718.221724	0.082954
Aggregate Household Other Types of Income	1521	803,868.196185	-0.012702
Aggregate Family or Nonfamily Income	1521	2,068,382.535048	-0.000246
Aggregate Family Income Deficit	1521	542,659.156060	0.048225
Aggregate Person Income or Earnings	1521	2,276,283.649058	-0.000690
Aggregate Income Deficit of Unrelated Individuals	1521	368,248.848968	-0.053342
HOUSING			
Housing Units	1521	13.083904	-0.000068
Aggregate Number of Rooms	1521	169.143491	-0.000683
Aggregate Number of Vehicles Available	1521	61.883591	-0.000499

Table D-2000. a, b, & c Parameters - 2000 American Community Survey - Calvert County, MD   (Page 2 of 2)

Characteristics	a	b	c
Aggregate Rent	1521	60,433.034777	-0.007924
Aggregate Value	1521	7,430,069.023268	-0.000833
Aggregate Price Asked	1521	4,857,617.873386	0.250638
Aggregate Selected Monthly Owner Costs- Total and With a Mortgage	1521	52,822.736530	-0.001173
Aggregate Selected Monthly Owner Costs- Without a Mortgage	1521	12,401.869247	-0.002173

Table D-2000   a, b, & c Parameters - 2000 American Community Survey -
Hampden County, MA   (Page 1 of 2)

Characteristics	a	b	c
POPULATION			
Population	1521	90.391063	-0.000300
Households	1521	21.592145	-0.000082
Aggregate Travel Time to Work (In Minutes)-Total	1521	1,578.318402	-0.000153
Aggregate Travel Time to Work (In Minutes) by Travel Time to Work	1521	2,412.065036	-0.000964
Aggregate Travel Time to Work (In Minutes)-Public Transportation and Less Than 30 Minutes	1521	782.050702	0.006027
Aggregate Travel Time to Work (In Minutes)-Public Transportation and More Than 30 Minutes	1521	2,141.919199	-0.001594
Aggregate Travel Time to Work (In Minutes)-Other Means	1521	2,331.563682	-0.000949
Aggregate Household Income, Earnings, Wages/Salary, Self-Employment, Interest, Dividends, or Net Rental Income	1521	2,727,460.384805	-0.000181
Aggregate Household Social Security Income	1521	355,702.435552	-0.000352
Aggregate Household Retirement Income	1521	741,733.634824	-0.000465
Aggregate Household Supplemental Security Income, Public Assistance Income, or Food Stamp Benefits	1521	419,722.073807	-0.000760
Aggregate Household Other Types of Income	1521	1,291,028.645194	-0.003653
Aggregate Family or Nonfamily Income	1521	2,308,749.398286	-0.000073
Aggregate Family Income Deficit	1521	749,200.675057	-0.001127
Aggregate Person Income or Earnings	1521	2,727,460.384805	-0.000181
Aggregate Income Deficit of Unrelated Individuals	1521	352,676.072389	-0.000174
HOUSING			
Housing Units	1521	21.086767	-0.000047
Aggregate Number of Rooms	1521	166.635361	-0.000122
Aggregate Number of Vehicles Available	1521	61.491649	-0.000117

Table D-2000. a, b, & c Parameters - 2000 American Community Survey -
Hampden County, MA   (Page 2 of 2)

Characteristics	a	b	c
Aggregate Rent	1521	26,501.891622	-0.000244
Aggregate Value	1521	3,704,680.637387	-0.000038
Aggregate Price Asked	1521	15,647,056.987499	-0.001247
Aggregate Selected Monthly Owner Costs- Total and With a Mortgage	1521	32,692.843282	-0.000075
Aggregate Selected Monthly Owner Costs- Without a Mortgage	1521	10,055.450813	-0.000181

Table D-2000   a, b, & c Parameters - 2000 American Community Survey - Madison County, MS   (Page 1 of 2)

Characteristics	a	b	c
POPULATION			
Population	1521	79.904277	-0.000663
Households	1521	22.714306	-0.000564
Aggregate Travel Time to Work (In Minutes)-Total	1521	1,909.904566	-0.001097
Aggregate Travel Time to Work (In Minutes) by Travel Time to Work	1521	2,305.294822	-0.004700
Aggregate Travel Time to Work (In Minutes)-Public Transportation and Less Than 30 Minutes	1521	293.542986	0.265101
Aggregate Travel Time to Work (In Minutes)-Public Transportation and More Than 30 Minutes	1521	-77.566970	0.991478
Aggregate Travel Time to Work (In Minutes)-Other Means	1521	2,039.232291	-0.003963
Aggregate Household Income, Earnings, Wages/Salary, Self-Employment, Interest, Dividends, or Net Rental Income	1521	4,163,762.452904	-0.001346
Aggregate Household Social Security Income	1521	464,868.976788	-0.003722
Aggregate Household Retirement Income	1521	1,889,147.017448	-0.002442
Aggregate Household Supplemental Security Income, Public Assistance Income, or Food Stamp Benefits	1521	264,522.834534	0.012655
Aggregate Household Other Types of Income	1521	4,486,962.248584	-0.018208
Aggregate Family or Nonfamily Income	1521	4,296,671.360417	-0.001281
Aggregate Family Income Deficit	1521	462,604.047492	-0.004388
Aggregate Person Income or Earnings	1521	4,163,762.452904	-0.001346
Aggregate Income Deficit of Unrelated Individuals	1521	350,194.949510	-0.017639
HOUSING			
Housing Units	1521	18.945182	-0.000255
Aggregate Number of Rooms	1521	154.433076	-0.000704
Aggregate Number of Vehicles Available	1521	67.529640	-0.000643

Table D-2000. a, b, & c Parameters - 2000 American Community Survey -
Madison County, MS   (Page 2 of 2)

Characteristics	a	b	c
Aggregate Rent	1521	32,034.820716	-0.002027
Aggregate Value	1521	7,565,123.629665	-0.000765
Aggregate Price Asked	1521	15,354,859.819744	-0.009561
Aggregate Selected Monthly Owner Costs- Total and With a Mortgage	1521	50,561.922281	-0.000712
Aggregate Selected Monthly Owner Costs- Without a Mortgage	1521	10,722.799617	-0.000100

Table D-2000   a, b, & c Parameters - 2000 American Community Survey -
Flathead / Lake Counties, MT   (Page 1 of 2)

Characteristics	a	b	c
POPULATION			
Population	1521	63.959037	-0.000528
Households	1521	19.870656	-0.000345
Aggregate Travel Time to Work (In Minutes)-Total	1521	1,303.121046	-0.000606
Aggregate Travel Time to Work (In Minutes) by Travel Time to Work	1521	2,597.180092	-0.005818
Aggregate Travel Time to Work (In Minutes)-Public Transportation and Less Than 30 Minutes	1521	293.542986	0.265101
Aggregate Travel Time to Work (In Minutes)-Public Transportation and More Than 30 Minutes	1521	1,521.697057	-0.165949
Aggregate Travel Time to Work (In Minutes)-Other Means	1521	2,610.562845	-0.005888
Aggregate Household Income, Earnings, Wages/Salary, Self-Employment, Interest, Dividends, or Net Rental Income	1521	10,712,042.201608	-0.001451
Aggregate Household Social Security Income	1521	290,588.967462	-0.001297
Aggregate Household Retirement Income	1521	830,800.742369	0.000051
Aggregate Household Supplemental Security Income, Public Assistance Income, or Food Stamp Benefits	1521	182,030.174530	0.035603
Aggregate Household Other Types of Income	1521	2,294,651.561568	-0.012291
Aggregate Family or Nonfamily Income	1521	3,603,570.212376	0.005415
Aggregate Family Income Deficit	1521	576,195.712061	0.016519
Aggregate Person Income or Earnings	1521	10,712,042.201608	-0.001451
Aggregate Income Deficit of Unrelated Individuals	1521	156,094.890272	0.002914
HOUSING			
Housing Units	1521	16.342656	0.000021
Aggregate Number of Rooms	1521	168.328883	-0.000510
Aggregate Number of Vehicles Available	1521	60.315019	-0.000396

Table D-2000. a, b, & c Parameters - 2000 American Community Survey -
Flathead / Lake Counties, MT   (Page 2 of 2)

Characteristics	a	b	c
Aggregate Rent	1521	33,087.007322	-0.002701
Aggregate Value	1521	7,483,921.549908	-0.000125
Aggregate Price Asked	1521	13,113,898.993396	-0.012537
Aggregate Selected Monthly Owner Costs- Total and With a Mortgage	1521	33,631.865861	-0.000662
Aggregate Selected Monthly Owner Costs- Without a Mortgage	1521	10,343.907675	-0.000939

Table D-2000   a, b, & c Parameters - 2000 American Community Survey -
Douglas County, NE   (Page 1 of 2)

Characteristics	a	b	c
POPULATION			
Population	1521	46.323736	-0.000101
Households	1521	13.966921	-0.000033
Aggregate Travel Time to Work (In Minutes)-Total	1521	1,580.182081	-0.000211
Aggregate Travel Time to Work (In Minutes) by Travel Time to Work	1521	1,141.606531	-0.000346
Aggregate Travel Time to Work (In Minutes)-Public Transportation and Less Than 30 Minutes	1521	1,146.772112	-0.008915
Aggregate Travel Time to Work (In Minutes)-Public Transportation and More Than 30 Minutes	1521	-20.482691	0.069632
Aggregate Travel Time to Work (In Minutes)-Other Means	1521	1,783.713506	-0.000612
Aggregate Household Income, Earnings, Wages/Salary, Self-Employment, Interest, Dividends, or Net Rental Income	1521	3,247,158.353710	-0.000125
Aggregate Household Social Security Income	1521	636,008.632667	-0.000870
Aggregate Household Retirement Income	1521	669,711.540154	0.000183
Aggregate Household Supplemental Security Income, Public Assistance Income, or Food Stamp Benefits	1521	87,925.258590	0.005991
Aggregate Household Other Types of Income	1521	2,390,165.186637	-0.005322
Aggregate Family or Nonfamily Income	1521	3,156,709.133697	0.000052
Aggregate Family Income Deficit	1521	545,566.047012	0.000008
Aggregate Person Income or Earnings	1521	3,247,158.353710	-0.000125
Aggregate Income Deficit of Unrelated Individuals	1521	256,490.790021	0.000724
HOUSING			
Housing Units	1521	13.083904	-0.000068
Aggregate Number of Rooms	1521	124.491478	-0.000094
Aggregate Number of Vehicles Available	1521	43.416377	-0.000079

Table D-2000. a, b, & c Parameters - 2000 American Community Survey - Douglas County, NE   (Page 2 of 2)

Characteristics	a	b	c
Aggregate Rent	1521	29,918.148791	-0.000507
Aggregate Value	1521	4,707,796.841019	-0.000164
Aggregate Price Asked	1521	9,997,895.048572	0.010037
Aggregate Selected Monthly Owner Costs- Total and With a Mortgage	1521	39,953.326533	-0.000191
Aggregate Selected Monthly Owner Costs- Without a Mortgage	1521	15,644.176310	-0.000295

Table D-2000   a, b, & c Parameters - 2000 American Community Survey -
Bronx Borough, NY   (Page 1 of 2)

Characteristics	a	b	c
POPULATION			
Population	1936	144.355619	-0.000040
Households	1936	34.366555	-0.000035
Aggregate Travel Time to Work (In Minutes)- Total	1936	2,006.143062	0.000001
Aggregate Travel Time to Work (In Minutes) by Travel Time to Work	1936	2,102.101327	0.000361
Aggregate Travel Time to Work (In Minutes)- Public Transportation and Less Than 30 Minutes	1936	3,239.301189	-0.001931
Aggregate Travel Time to Work (In Minutes)- Public Transportation and More Than 30 Minutes	1936	3,455.368575	0.000298
Aggregate Travel Time to Work (In Minutes)- Other Means	1936	9,117.926490	-0.004836
Aggregate Household Income, Earnings, Wages/Salary, Self-Employment, Interest, Dividends, or Net Rental Income	1936	5,479,817.093978	-0.000166
Aggregate Household Social Security Income	1936	535,920.179160	-0.000127
Aggregate Household Retirement Income	1936	1,498,887.240884	-0.000303
Aggregate Household Supplemental Security Income, Public Assistance Income, or Food Stamp Benefits	1936	-4.138641	0.002319
Aggregate Household Other Types of Income	1936	3,424,731.916869	-0.000027
Aggregate Family or Nonfamily Income	1936	7,142,139.849026	-0.000111
Aggregate Family Income Deficit	1936	946,406.459872	-0.000044
Aggregate Person Income or Earnings	1936	5,479,817.093978	-0.000166
Aggregate Income Deficit of Unrelated Individuals	1936	487,380.892363	-0.000943
HOUSING			
Housing Units	1936	32.518555	0.000006
Aggregate Number of Rooms	1936	323.811641	-0.000141
Aggregate Number of Vehicles Available	1936	100.279300	-0.000087

Table D-2000. a, b, & c Parameters - 2000 American Community Survey -
Bronx Borough, NY   (Page 2 of 2)

Characteristics	a	b	c
Aggregate Rent	1936	50,032.952266	-0.000135
Aggregate Value	1936	13,801,717.992345	0.000226
Aggregate Price Asked	1936	33,062,950.921441	0.022172
Aggregate Selected Monthly Owner Costs- Total and With a Mortgage	1936	128,686.812862	-0.000740
Aggregate Selected Monthly Owner Costs- Without a Mortgage	1936	24,297.090335	0.000168

Table D-2000   a, b, & c Parameters - 2000 American Community Survey -
Rockland County, NY   (Page 1 of 2)

Characteristics	a	b	c
POPULATION			
Population	1521	124.010534	-0.000536
Households	1521	24.892723	-0.000206
Aggregate Travel Time to Work (In Minutes)-Total	1521	2,338.621430	-0.000253
Aggregate Travel Time to Work (In Minutes) by Travel Time to Work	1521	1,517.415259	0.000824
Aggregate Travel Time to Work (In Minutes)-Public Transportation and Less Than 30 Minutes	1521	1,696.291405	-0.005153
Aggregate Travel Time to Work (In Minutes)-Public Transportation and More Than 30 Minutes	1521	3,076.505975	0.001783
Aggregate Travel Time to Work (In Minutes)-Other Means	1521	926.483591	0.002038
Aggregate Household Income, Earnings, Wages/Salary, Self-Employment, Interest, Dividends, or Net Rental Income	1521	6,327,000.189371	-0.000365
Aggregate Household Social Security Income	1521	387,108.337942	-0.000524
Aggregate Household Retirement Income	1521	2,182,345.651240	-0.002848
Aggregate Household Supplemental Security Income, Public Assistance Income, or Food Stamp Benefits	1521	175,993.876652	0.018642
Aggregate Household Other Types of Income	1521	5,618,594.817291	-0.022795
Aggregate Family or Nonfamily Income	1521	4,307,147.932859	0.000014
Aggregate Family Income Deficit	1521	616,049.470333	-0.004250
Aggregate Person Income or Earnings	1521	6,327,000.189371	-0.000365
Aggregate Income Deficit of Unrelated Individuals	1521	515,474.573345	-0.018723
HOUSING			
Housing Units	1521	24.499331	-0.000274
Aggregate Number of Rooms	1521	186.417098	-0.000252
Aggregate Number of Vehicles Available	1521	69.891819	-0.000240

Table D-2000. a, b, & c Parameters - 2000 American Community Survey - Rockland County, NY   (Page 2 of 2)

Characteristics	a	b	c
Aggregate Rent	1521	47,180.309415	-0.000277
Aggregate Value	1521	10,770,221.674491	-0.000310
Aggregate Price Asked	1936	32,825,566.162813	-0.012185
Aggregate Selected Monthly Owner Costs- Total and With a Mortgage	1521	65,607.437850	-0.000179
Aggregate Selected Monthly Owner Costs- Without a Mortgage	1521	23,687.905654	0.000374

Table D-2000   a, b, & c Parameters - 2000 American Community Survey -
Franklin County, OH

Characteristics	a	b	c
POPULATION			
Population	1936	138.878838	-0.000136
Households	1936	23.335051	-0.000027
Aggregate Travel Time to Work (In Minutes)-Total	1936	2,079.878148	-0.000092
Aggregate Travel Time to Work (In Minutes) by Travel Time to Work	1936	4,092.383317	-0.000621
Aggregate Travel Time to Work (In Minutes)-Public Transportation and Less Than 30 Minutes	1936	978.750233	0.001033
Aggregate Travel Time to Work (In Minutes)-Public Transportation and More Than 30 Minutes	1936	2,477.345276	0.018914
Aggregate Travel Time to Work (In Minutes)-Other Means	1936	4,112.558368	-0.000629
Aggregate Household Income, Earnings, Wages/Salary, Self-Employment, Interest, Dividends, or Net Rental Income	1936	4,057,892.073605	-0.000047
Aggregate Household Social Security Income	1936	479,175.787891	-0.000052
Aggregate Household Retirement Income	1936	1,907,011.698952	-0.000564
Aggregate Household Supplemental Security Income, Public Assistance Income, or Food Stamp Benefits	1936	420,134.924859	-0.000989
Aggregate Household Other Types of Income	1936	1,007,421.225067	0.000001
Aggregate Family or Nonfamily Income	1936	3,859,927.764301	0.000070
Aggregate Family Income Deficit	1936	768,881.238247	-0.000779
Aggregate Person Income or Earnings	1936	4,057,892.073605	-0.000047
Aggregate Income Deficit of Unrelated Individuals	1936	497,498.352394	0.000668
HOUSING			
Housing Units	1936	30.765501	-0.000067
Aggregate Number of Rooms	1936	218.725462	-0.000070
Aggregate Number of Vehicles Available	1936	77.640615	-0.000070

Table D-2000. a, b, & c Parameters - 2000 American Community Survey - Franklin County, OH   (Page 2 of 2)

Characteristics	a	b	c
Aggregate Rent	1936	50,250.685100	-0.000243
Aggregate Value	1936	5,784,001.988973	-0.000065
Aggregate Price Asked	1936	33,799,153.768481	-0.014176
Aggregate Selected Monthly Owner Costs- Total and With a Mortgage	1936	45,291.315879	-0.000054
Aggregate Selected Monthly Owner Costs- Without a Mortgage	1936	19,291.748490	0.000025

Table D-2000   a, b, & c Parameters - 2000 American Community Survey - Multnomah County, OR   (Page 1 of 2)

Characteristics	a	b	c
POPULATION			
Population	1521	95.531482	-0.000147
Households	1521	20.918239	-0.000044
Aggregate Travel Time to Work (In Minutes)-Total	1521	2,082.779702	-0.000145
Aggregate Travel Time to Work (In Minutes) by Travel Time to Work	1521	3,803.365605	-0.001083
Aggregate Travel Time to Work (In Minutes)-Public Transportation and Less Than 30 Minutes	1521	255.262712	0.001949
Aggregate Travel Time to Work (In Minutes)-Public Transportation and More Than 30 Minutes	1521	284.832648	0.005994
Aggregate Travel Time to Work (In Minutes)-Other Means	1521	2,743.364906	-0.000784
Aggregate Household Income, Earnings, Wages/Salary, Self-Employment, Interest, Dividends, or Net Rental Income	1521	2,344,821.074810	-0.000030
Aggregate Household Social Security Income	1521	344,501.389889	-0.000278
Aggregate Household Retirement Income	1521	700,664.741426	0.000319
Aggregate Household Supplemental Security Income, Public Assistance Income, or Food Stamp Benefits	1521	48,088.142571	0.006059
Aggregate Household Other Types of Income	1521	2,204,891.190681	-0.000580
Aggregate Family or Nonfamily Income	1521	1,608,603.847020	0.000234
Aggregate Family Income Deficit	1521	619,201.696738	0.000312
Aggregate Person Income or Earnings	1521	2,344,821.074810	-0.000030
Aggregate Income Deficit of Unrelated Individuals	1521	259,444.226604	0.000140
HOUSING			
Housing Units	1521	22.420587	-0.000080
Aggregate Number of Rooms	1521	142.078033	-0.000077
Aggregate Number of Vehicles Available	1521	61.215165	-0.000081

Table D-2000. a, b, & c Parameters - 2000 American Community Survey - Multnomah County, OR   (Page 2 of 2)

Characteristics	a	b	c
Aggregate Rent	1521	31,973.997922	-0.000236
Aggregate Value	1521	5,495,319.513434	-0.000057
Aggregate Price Asked	1521	13,082,239.804134	0.004787
Aggregate Selected Monthly Owner Costs- Total and With a Mortgage	1521	40,029.378007	-0.000078
Aggregate Selected Monthly Owner Costs- Without a Mortgage	1521	13,461.469372	-0.000377

Table D-2000   a, b, & c Parameters - 2000 American Community Survey -
Schuylkill County, PA   (Page 1 of 2)

Characteristics	a	b	c
POPULATION			
Population	1521	46.323736	-0.000101
Households	1521	15.331431	-0.000178
Aggregate Travel Time to Work (In Minutes)-Total	1521	1,734.435599	-0.000581
Aggregate Travel Time to Work (In Minutes) by Travel Time to Work	1521	3,650.236420	-0.005597
Aggregate Travel Time to Work (In Minutes)-Public Transportation and Less Than 30 Minutes	1521	459.588903	-0.000615
Aggregate Travel Time to Work (In Minutes)-Public Transportation and More Than 30 Minutes	1521	510.240966	0.219441
Aggregate Travel Time to Work (In Minutes)-Other Means	1521	3,625.794910	-0.005586
Aggregate Household Income, Earnings, Wages/Salary, Self-Employment, Interest, Dividends, or Net Rental Income	1521	1,883,148.173288	-0.000502
Aggregate Household Social Security Income	1521	316,265.334919	-0.000793
Aggregate Household Retirement Income	1521	592,701.763158	-0.001372
Aggregate Household Supplemental Security Income, Public Assistance Income, or Food Stamp Benefits	1521	222,431.728595	0.002946
Aggregate Household Other Types of Income	1521	550,298.184650	-0.001261
Aggregate Family or Nonfamily Income	1521	1,784,499.162630	-0.000419
Aggregate Family Income Deficit	1521	313,973.904757	0.003045
Aggregate Person Income or Earnings	1521	1,883,148.173288	-0.000502
Aggregate Income Deficit of Unrelated Individuals	1521	329,840.657576	0.023744
HOUSING			
Housing Units	1521	13.083904	-0.000068
Aggregate Number of Rooms	1521	153.545454	-0.000272
Aggregate Number of Vehicles Available	1521	59.728948	-0.000306

Table D-2000. a, b, & c Parameters - 2000 American Community Survey -
Schuylkill County, PA   (Page 2 of 2)

Characteristics	a	b	c
Aggregate Rent	1521	17,330.129857	-0.000921
Aggregate Value	1521	2,440,561.923556	-0.000084
Aggregate Price Asked	1521	10,625,759.854216	-0.203285
Aggregate Selected Monthly Owner Costs- Total and With a Mortgage	1521	29,040.528866	-0.000641
Aggregate Selected Monthly Owner Costs- Without a Mortgage	1521	8,927.293785	-0.000607

Table D-2000   a, b, & c Parameters - 2000 American Community Survey -
Sevier County, TN   (Page 1 of 2)

Characteristics	a	b	c
POPULATION			
Population	1521	161.434308	-0.002876
Households	1521	21.966542	-0.000616
Aggregate Travel Time to Work (In Minutes)-Total	1521	2,558.902374	-0.001826
Aggregate Travel Time to Work (In Minutes) by Travel Time to Work	1521	3,780.742986	-0.008438
Aggregate Travel Time to Work (In Minutes)-Public Transportation and Less Than 30 Minutes	1521	293.542986	0.265101
Aggregate Travel Time to Work (In Minutes)-Public Transportation and More Than 30 Minutes	1521	1,025.369721	0.092977
Aggregate Travel Time to Work (In Minutes)-Other Means	1521	3,808.972852	-0.008547
Aggregate Household Income, Earnings, Wages/Salary, Self-Employment, Interest, Dividends, or Net Rental Income	1521	1,271,659.338931	0.000353
Aggregate Household Social Security Income	1521	351,707.096941	-0.001187
Aggregate Household Retirement Income	1521	672,636.565633	0.005988
Aggregate Household Supplemental Security Income, Public Assistance Income, or Food Stamp Benefits	1521	44,331.011570	0.042490
Aggregate Household Other Types of Income	1521	431,812.037745	-0.002429
Aggregate Family or Nonfamily Income	1521	1,998,808.081660	0.000438
Aggregate Family Income Deficit	1521	358,695.644788	0.006385
Aggregate Person Income or Earnings	1521	1,271,659.338931	0.000353
Aggregate Income Deficit of Unrelated Individuals	1521	639,945.156464	-0.064515
HOUSING			
Housing Units	1521	27.635325	-0.000788
Aggregate Number of Rooms	1521	198.711243	-0.000745
Aggregate Number of Vehicles Available	1521	95.260345	-0.001009

Table D-2000. a, b, & c Parameters - 2000 American Community Survey -
Sevier County, TN   (Page 2 of 2)

Characteristics	a	b	c
Aggregate Rent	1521	29,242.176872	-0.000994
Aggregate Value	1521	7,685,280.444880	-0.000004
Aggregate Price Asked	1521	13,113,898.993396	-0.012537
Aggregate Selected Monthly Owner Costs- Total and With a Mortgage	1521	33,144.204346	-0.000311
Aggregate Selected Monthly Owner Costs- Without a Mortgage	1521	11,131.507178	-0.004875

Table D-2000   a, b, & c Parameters - 2000 American Community Survey -
Fort Bend / Harris Counties, TX   (Page 1 of 2)

Characteristics	a	b	c
POPULATION			
Population	7569	543.774015	-0.000195
Households	7569	97.524626	-0.000047
Aggregate Travel Time to Work (In Minutes)-Total	7569	7,842.996478	-0.000062
Aggregate Travel Time to Work (In Minutes) by Travel Time to Work	7569	15,035.691486	-0.000714
Aggregate Travel Time to Work (In Minutes)-Public Transportation and Less Than 30 Minutes	7569	1,745.544777	0.040636
Aggregate Travel Time to Work (In Minutes)-Public Transportation and More Than 30 Minutes	7569	10,230.223314	0.007493
Aggregate Travel Time to Work (In Minutes)-Other Means	7569	14,750.160249	-0.000728
Aggregate Household Income, Earnings, Wages/Salary, Self-Employment, Interest, Dividends, or Net Rental Income	7569	9,944,529.919243	0.000016
Aggregate Household Social Security Income	7569	1,463,549.374609	-0.000190
Aggregate Household Retirement Income	7569	5,529,883.446607	0.001621
Aggregate Household Supplemental Security Income, Public Assistance Income, or Food Stamp Benefits	7569	536,708.258167	0.004861
Aggregate Household Other Types of Income	7569	6,398,283.299000	-0.002609
Aggregate Family or Nonfamily Income	7569	14,685,852.632391	0.000055
Aggregate Family Income Deficit	7569	2,995,780.160164	0.000028
Aggregate Person Income or Earnings	7569	9,944,529.919243	0.000016
Aggregate Income Deficit of Unrelated Individuals	7569	1,614,404.360692	0.004412
HOUSING			
Housing Units	7569	93.903851	-0.000079
Aggregate Number of Rooms	7569	883.485885	-0.000105
Aggregate Number of Vehicles Available	7569	336.001776	-0.000111

Table D-2000. a, b, & c Parameters - 2000 American Community Survey -
Fort Bend / Harris Counties, TX   (Page 2 of 2)

Characteristics	a	b	c
Aggregate Rent	7569	155,263.258658	-0.000114
Aggregate Value	7569	19,005,283.466803	0.000037
Aggregate Price Asked	7569	44,217,101.453981	0.013079
Aggregate Selected Monthly Owner Costs- Total and With a Mortgage	7569	142,277.709655	-0.000001
Aggregate Selected Monthly Owner Costs- Without a Mortgage	7569	70,246.942152	-0.000121

Table D-2000 a, b, & c Parameters - 2000 American Community Survey - Starr / Zapata Counties, TX   (Page 1 of 2)

Characteristics	a	b	c
POPULATION			
Population	1521	161.434308	-0.002876
Households	1521	43.580130	-0.001588
Aggregate Travel Time to Work (In Minutes)-Total	1521	3,873.259085	-0.002786
Aggregate Travel Time to Work (In Minutes) by Travel Time to Work	1521	6,689.745624	-0.025301
Aggregate Travel Time to Work (In Minutes)-Public Transportation and Less Than 30 Minutes	1521	293.542986	0.265101
Aggregate Travel Time to Work (In Minutes)-Public Transportation and More Than 30 Minutes	1521	293.542986	0.265101
Aggregate Travel Time to Work (In Minutes)-Other Means	1521	6,646.356836	-0.024914
Aggregate Household Income, Earnings, Wages/Salary, Self-Employment, Interest, Dividends, or Net Rental Income	1521	2,871,602.160373	-0.001383
Aggregate Household Social Security Income	1521	509,950.445563	-0.009722
Aggregate Household Retirement Income	1521	712,066.070739	0.004143
Aggregate Household Supplemental Security Income, Public Assistance Income, or Food Stamp Benefits	1521	107,744.113445	0.010537
Aggregate Household Other Types of Income	1521	411,354.894894	-0.000084
Aggregate Family or Nonfamily Income	1521	3,092,259.636063	-0.000794
Aggregate Family Income Deficit	1521	885,431.840525	-0.002838
Aggregate Person Income or Earnings	1521	2,871,602.160373	-0.001383
Aggregate Income Deficit of Unrelated Individuals	1521	115,865.573905	0.140883
HOUSING			
Housing Units	1521	27.635325	-0.000788
Aggregate Number of Rooms	1521	255.742181	-0.002086
Aggregate Number of Vehicles Available	1521	75.769872	-0.001081

Table D-2000. a, b, & c Parameters - 2000 American Community Survey -
Starr / Zapata Counties, TX   (Page 2 of 2)

Characteristics	a	b	c
Aggregate Rent	1521	13,980.976249	0.004181
Aggregate Value	1521	3,157,686.425067	0.001006
Aggregate Price Asked	1521	6,334,961.193310	-0.122965
Aggregate Selected Monthly Owner Costs- Total and With a Mortgage	1521	59,479.491374	-0.005499
Aggregate Selected Monthly Owner Costs- Without a Mortgage	1521	10,209.856086	-0.000719

Table D-2000   a, b, & c Parameters - 2000 American Community Survey -
Yakima County, WA   (Page 1 of 2)

Characteristics	a	b	c
POPULATION			
Population	1521	155.050542	-0.000977
Households	1521	32.236574	-0.000318
Aggregate Travel Time to Work (In Minutes)-Total	1521	2,893.046383	-0.001126
Aggregate Travel Time to Work (In Minutes) by Travel Time to Work	1521	2,374.424259	-0.002009
Aggregate Travel Time to Work (In Minutes)-Public Transportation and Less Than 30 Minutes	1521	919.603516	-0.007365
Aggregate Travel Time to Work (In Minutes)-Public Transportation and More Than 30 Minutes	1521	1,824.777753	-0.028244
Aggregate Travel Time to Work (In Minutes)-Other Means	1521	2,381.759876	-0.002017
Aggregate Household Income, Earnings, Wages/Salary, Self-Employment, Interest, Dividends, or Net Rental Income	1521	2,584,627.960814	-0.000309
Aggregate Household Social Security Income	1521	464,006.199500	-0.001162
Aggregate Household Retirement Income	1521	3,915,050.608596	-0.004822
Aggregate Household Supplemental Security Income, Public Assistance Income, or Food Stamp Benefits	1521	248,185.099309	0.007250
Aggregate Household Other Types of Income	1521	984,572.574114	-0.003974
Aggregate Family or Nonfamily Income	1521	2,529,002.626381	0.000036
Aggregate Family Income Deficit	1521	778,885.619584	0.000017
Aggregate Person Income or Earnings	1521	2,584,627.960814	-0.000309
Aggregate Income Deficit of Unrelated Individuals	1521	377,048.243716	-0.003574
HOUSING			
Housing Units	1521	40.565265	-0.000804
Aggregate Number of Rooms	1521	190.081065	-0.000361
Aggregate Number of Vehicles Available	1521	93.069038	-0.000371

Table D-2000. a, b, & c Parameters - 2000 American Community Survey -
Yakima County, WA   (Page 2 of 2)

Characteristics	a	b	c
Aggregate Rent	1521	30,245.279066	-0.000760
Aggregate Value	1521	5,042,823.268839	-0.000190
Aggregate Price Asked	1521	9,894,344.688253	-0.017730
Aggregate Selected Monthly Owner Costs- Total and With a Mortgage	1521	41,092.260952	-0.000545
Aggregate Selected Monthly Owner Costs- Without a Mortgage	1521	12,019.785570	-0.000622

Table E-2000　a & b Parameters - 2000 American Community Survey -
　　　　　Pima County, AZ

Characteristics	a	b
POPULATION		
Average Household Size	0.020949	-0.001632
Average Family Size	0.028832	-0.002326
Median Age	5.080691	-0.372321
Median Age by Sex	5.933653	-0.456403
Birth Rate	929.995564	-74.708659
Mean Travel Time to Work (In Minutes)	2.268569	-0.174579
Median Household Income	27,586,906.392795	-2,157,649.860076
Mean Household Income (Total or Earnings)	25,738,547.937618	-2,005,992.089369
Mean Household Income (Social Security)	784,096.297832	-67,209.570979
Mean Household Income (Retirement)	20,793,595.330458	-1,853,111.603775
Mean Household Income or Benefits (Supplemental Security)	11,938,033.327650	-1,275,680.410310
Mean Household Income or Benefits (Public Assistance)	683,243.937915	-68,384.476455
Median Family Income	21,812,470.172262	-1,763,701.520835
Median Nonfamily Income	17,186,209.794952	-1,445,101.082289
Mean Family & Nonfamily Income	27,378,029.168569	-2,200,312.206521
Median Person Earnings	5,102,511.796794	-389,644.743864
Per Capita Income	4,095,749.404589	-297,573.755560
HOUSING		
Median Number of Rooms	0.023155	-0.001027
Median Year Built	2.696565	-0.132416
Median Year Householder Moved into Unit	1.817164	-0.064320
Median Gross/Contract Rent	4,594.996579	-391.578962
Median Gross Rent as a Percentage of Household Income	23.398527	-1.985266
Median Value	37,604,227.920400	-3,076,676.365560
Median Selected Monthly Owner Costs	1,188.448384	-90.515530
Median Selected Monthly Owner Costs as a Percentage of Household Income	1.890576	-0.153973

Table E-2000   a & b Parameters - 2000 American Community Survey -
Jefferson County, AR

Characteristics	a	b
POPULATION		
Average Household Size	0.054127	-0.005115
Average Family Size	0.046848	-0.004387
Median Age	12.023581	-1.058527
Median Age by Sex	17.931385	-1.674070
Birth Rate	2,403.557498	-229.586096
Mean Travel Time to Work (In Minutes)	0.467100	-0.003955
Median Household Income	36,528,764.526050	-3,431,502.289027
Mean Household Income (Total or Earnings)	19,209,164.020570	-1,690,466.105391
Mean Household Income (Social Security)	2,809,371.181626	-295,232.504287
Mean Household Income (Retirement)	10,143,759.445423	-1,136,645.173862
Mean Household Income or Benefits (Supplemental Security)	1,880,973.254543	-230,447.178679
Mean Household Income or Benefits (Public Assistance)	1,543,608.082873	-181,138.616546
Median Family Income	9,679,964.247798	-631,579.289817
Median Nonfamily Income	1,199,415.154555	18,574.503499
Mean Family & Nonfamily Income	5,015,985.957220	-238,783.388188
Median Person Earnings	7,550,388.374317	-654,248.919214
Per Capita Income	1,345,603.129716	-103,618.140834
HOUSING		
Median Number of Rooms	0.179374	-0.016217
Median Year Built	6.701513	-0.507596
Median Year Householder Moved into Unit	7.844537	-0.664759
Median Gross/Contract Rent	2,415.995748	-234.825746
Median Gross Rent as a Percentage of Household Income	122.415132	-13.318706
Median Value	1.000000	302,978.031076
Median Selected Monthly Owner Costs	295.898057	-3.891920
Median Selected Monthly Owner Costs as a Percentage of Household Income	3.063482	-0.255828

Table E-2000   a & b Parameters - 2000 American Community Survey -
San Francisco County, CA

Characteristics	a	b
POPULATION		
Average Household Size	0.011787	-0.000912
Average Family Size	0.006968	-0.000267
Median Age	0.296786	-0.019535
Median Age by Sex	11.329365	-0.880430
Birth Rate	252.919882	-19.483812
Mean Travel Time to Work (In Minutes)	8.561663	-0.648228
Median Household Income	28,144,751.995934	-2,138,549.863731
Mean Household Income (Total or Earnings)	1.000000	130,598.880944
Mean Household Income (Social Security)	384,034.049970	-31,777.536867
Mean Household Income (Retirement)	2,677,059.114952	-226,539.395320
Mean Household Income or Benefits (Supplemental Security)	358,783.687817	-31,330.485057
Mean Household Income or Benefits (Public Assistance)	455,026.223242	-43,034.789224
Median Family Income	36,119,213.147920	-2,840,417.931136
Median Nonfamily Income	1.000000	68,420.479295
Mean Family & Nonfamily Income	47,274,304.171148	-3,684,730.693587
Median Person Earnings	1.000000	42,689.334804
Per Capita Income	7,561,538.465665	-536,132.506955
HOUSING		
Median Number of Rooms	0.089113	-0.006038
Median Year Built	8.560179	-0.576959
Median Year Householder Moved into Unit	10.953639	-0.764025
Median Gross/Contract Rent	51.007601	-2.662103
Median Gross Rent as a Percentage of Household Income	1.170004	-0.081898
Median Value	1.000000	1,644,723.692600
Median Selected Monthly Owner Costs	1.000000	161.186126
Median Selected Monthly Owner Costs as a Percentage of Household Income	2.502989	-0.186171

Table E-2000   a & b Parameters - 2000 American Community Survey -
         Tulare County, CA

Characteristics	a	b
POPULATION		
Average Household Size	0.067793	-0.005795
Average Family Size	0.049075	-0.004189
Median Age	6.010299	-0.467625
Median Age by Sex	9.660001	-0.796681
Birth Rate	1,484.732285	-126.596644
Mean Travel Time to Work (In Minutes)	6.502399	-0.531666
Median Household Income	5,446,600.831826	-436,062.217866
Mean Household Income (Total or Earnings)	21,334,308.175789	-1,791,528.730340
Mean Household Income (Social Security)	1,162,900.474739	-110,811.767254
Mean Household Income (Retirement)	13,334,486.297511	-1,333,956.842434
Mean Household Income or Benefits (Supplemental Security)	1,258,398.878440	-131,739.119723
Mean Household Income or Benefits (Public Assistance)	402,613.904108	-41,976.427568
Median Family Income	12,099,698.922760	-1,000,566.186537
Median Nonfamily Income	14,814,287.314858	-1,290,570.948623
Mean Family & Nonfamily Income	18,975,613.323252	-1,593,579.581016
Median Person Earnings	4,089,377.712182	-330,941.148519
Per Capita Income	2,459,775.316087	-188,550.480594
HOUSING		
Median Number of Rooms	0.042961	-0.002819
Median Year Built	7.668143	-0.570305
Median Year Householder Moved into Unit	1.999114	-0.086098
Median Gross/Contract Rent	1,509.632163	-137.398142
Median Gross Rent as a Percentage of Household Income	20.682036	-1.884655
Median Value	26,907,993.640236	-2,296,692.921060
Median Selected Monthly Owner Costs	1,794.870601	-141.923488
Median Selected Monthly Owner Costs as a Percentage of Household Income	2.322328	-0.191745

Table E-2000   a & b Parameters - 2000 American Community Survey -
Broward County, FL

Characteristics	a	b
POPULATION		
Average Household Size	0.023791	-0.001764
Average Family Size	0.020534	-0.001568
Median Age	3.880750	-0.270920
Median Age by Sex	5.236158	-0.383439
Birth Rate	1,081.093129	-83.014212
Mean Travel Time to Work (In Minutes)	3.149495	-0.230298
Median Household Income	11,974,480.058134	-888,795.683366
Mean Household Income (Total or Earnings)	20,674,318.555000	-1,524,505.867328
Mean Household Income (Social Security)	946,284.510817	-77,039.961293
Mean Household Income (Retirement)	5,941,045.825229	-512,658.678859
Mean Household Income or Benefits (Supplemental Security)	1,790,255.394631	-179,189.520294
Mean Household Income or Benefits (Public Assistance)	518,028.690172	-51,532.987747
Median Family Income	23,650,982.292810	-1,814,767.054294
Median Nonfamily Income	14,174,899.023085	-1,126,798.095605
Mean Family & Nonfamily Income	33,607,137.965393	-2,568,352.549969
Median Person Earnings	5,961,128.906195	-432,856.205256
Per Capita Income	4,383,354.411314	-303,555.035178
HOUSING		
Median Number of Rooms	0.019107	-0.000674
Median Year Built	2.612650	-0.119316
Median Year Householder Moved into Unit	1.320239	-0.023939
Median Gross/Contract Rent	1,109.221252	-88.757159
Median Gross Rent as a Percentage of Household Income	11.781384	-0.956434
Median Value	35,547,569.337690	-2,761,219.978985
Median Selected Monthly Owner Costs	3,815.778206	-289.258833
Median Selected Monthly Owner Costs as a Percentage of Household Income	4.853521	-0.382575

Table E-2000   a & b Parameters - 2000 American Community Survey -
Lake County, IL

Characteristics	a	b
POPULATION		
Average Household Size	0.059540	-0.004835
Average Family Size	0.051080	-0.004202
Median Age	4.536567	-0.338987
Median Age by Sex	5.754724	-0.453412
Birth Rate	866.278280	-69.951582
Mean Travel Time to Work (In Minutes)	4.963133	-0.384868
Median Household Income	32,427,638.243458	-2,553,063.198316
Mean Household Income (Total or Earnings)	88,280,800.153818	-6,923,264.594433
Mean Household Income (Social Security)	2,445,803.300895	-224,923.616892
Mean Household Income (Retirement)	40,438,526.051124	-3,907,512.761795
Mean Household Income or Benefits (Supplemental Security)	12,209,864.386806	-1,482,544.847413
Mean Household Income or Benefits (Public Assistance)	1,710,218.225089	-199,516.810293
Median Family Income	41,704,376.010502	-3,351,463.490666
Median Nonfamily Income	49,854,410.787321	-4,458,682.462591
Mean Family & Nonfamily Income	53,963,394.675635	-4,076,933.570880
Median Person Earnings	10,211,650.099198	-780,200.443043
Per Capita Income	16,686,770.016281	-1,219,252.262381
HOUSING		
Median Number of Rooms	0.036737	-0.002169
Median Year Built	7.147597	-0.498672
Median Year Householder Moved into Unit	1.054596	-0.004448
Median Gross/Contract Rent	5,294.974638	-486.487478
Median Gross Rent as a Percentage of Household Income	50.052202	-4.587082
Median Value	151,886,854.405444	-12,187,542.902591
Median Selected Monthly Owner Costs	4,679.266869	-373.795837
Median Selected Monthly Owner Costs as a Percentage of Household Income	4.540371	-0.376429

Table E-2000   a & b Parameters - 2000 American Community Survey - Black Hawk County, IA

Characteristics	a	b
POPULATION		
Average Household Size	0.034050	-0.003115
Average Family Size	0.025513	-0.002301
Median Age	11.370709	-0.969529
Median Age by Sex	16.019382	-1.442604
Birth Rate	710.511513	-63.591643
Mean Travel Time to Work (In Minutes)	2.350603	-0.202313
Median Household Income	2,590,810.971407	-158,819.487636
Mean Household Income (Total or Earnings)	19,488,286.285020	-1,744,315.594857
Mean Household Income (Social Security)	1,223,699.480033	-122,503.523394
Mean Household Income (Retirement)	8,116,220.181453	-857,158.056385
Mean Household Income or Benefits (Supplemental Security)	1,328,364.149759	-163,994.200128
Mean Household Income or Benefits (Public Assistance)	1,117,057.998679	-133,061.794888
Median Family Income	29,834,614.681155	-2,782,598.558908
Median Nonfamily Income	9,438,352.983148	-895,004.295469
Mean Family & Nonfamily Income	10,613,703.901711	-902,807.135968
Median Person Earnings	3,202,348.851607	-260,364.273213
Per Capita Income	2,917,904.855692	-240,854.498247
HOUSING		
Median Number of Rooms	0.047871	-0.003489
Median Year Built	9.237889	-0.689851
Median Year Householder Moved into Unit	3.438696	-0.225639
Median Gross/Contract Rent	2,912.631256	-296.763382
Median Gross Rent as a Percentage of Household Income	60.699826	-6.284507
Median Value	8,455,052.094383	-648,270.033668
Median Selected Monthly Owner Costs	663.357141	-40.864183
Median Selected Monthly Owner Costs as a Percentage of Household Income	1.160827	-0.093099

Table E-2000   a & b Parameters - 2000 American Community Survey -
Calvert County, MD

Characteristics	a	b
POPULATION		
Average Household Size	0.118013	-0.011474
Average Family Size	0.060294	-0.005770
Median Age	7.385928	-0.653113
Median Age by Sex	14.612159	-1.378237
Birth Rate	747.180301	-68.832738
Mean Travel Time to Work (In Minutes)	26.781147	-2.479156
Median Household Income	161,150,356.096063	-15,752,627.049562
Mean Household Income (Total or Earnings)	61,108,486.116838	-5,794,761.869341
Mean Household Income (Social Security)	2,101,976.109271	-220,583.796266
Mean Household Income (Retirement)	21,386,475.592538	-2,282,446.827288
Mean Household Income or Benefits (Supplemental Security)	20,801,955.142374	-3,320,297.673679
Mean Household Income or Benefits (Public Assistance)	10,441,376.867099	-1,593,040.140368
Median Family Income	88,389,215.889279	-8,492,971.047534
Median Nonfamily Income	1.000000	796,905.228337
Mean Family & Nonfamily Income	48,654,037.863688	-4,570,988.036108
Median Person Earnings	15,583,952.071088	-1,372,256.853237
Per Capita Income	9,307,342.502086	-808,092.149213
HOUSING		
Median Number of Rooms	0.034960	-0.001903
Median Year Built	16.270603	-1.493501
Median Year Householder Moved into Unit	1.670388	-0.066171
Median Gross/Contract Rent	17,768.910524	-2,160.528857
Median Gross Rent as a Percentage of Household Income	156.223194	-18.940256
Median Value	304,452,647.493486	-29,427,608.483404
Median Selected Monthly Owner Costs	1,660.746059	-107.177753
Median Selected Monthly Owner Costs as a Percentage of Household Income	1.378708	-0.107427

Table E-2000   a & b Parameters - 2000 American Community Survey -
           Hampden County, MA

Characteristics	a	b
POPULATION		
Average Household Size	0.026522	-0.002182
Average Family Size	0.021303	-0.001778
Median Age	6.361755	-0.488072
Median Age by Sex	6.135827	-0.494277
Birth Rate	737.595705	-62.012277
Mean Travel Time to Work (In Minutes)	2.779674	-0.220991
Median Household Income	12,742,031.540712	-1,027,218.926322
Mean Household Income (Total or Earnings)	12,530,270.891244	-1,007,374.557154
Mean Household Income (Social Security)	605,432.660275	-54,143.459458
Mean Household Income (Retirement)	3,999,854.288040	-370,795.887462
Mean Household Income or Benefits (Supplemental Security)	990,706.870849	-100,547.142508
Mean Household Income or Benefits (Public Assistance)	493,455.917270	-49,968.601371
Median Family Income	24,264,900.306574	-2,025,082.069883
Median Nonfamily Income	17,451,466.581026	-1,550,672.582825
Mean Family & Nonfamily Income	15,351,466.667116	-1,261,132.186815
Median Person Earnings	4,112,957.269343	-327,395.802700
Per Capita Income	2,075,528.555245	-155,482.486640
HOUSING		
Median Number of Rooms	0.013577	-0.000295
Median Year Built	6.270857	-0.434429
Median Year Householder Moved into Unit	1.057551	-0.004769
Median Gross/Contract Rent	1,145.939514	-99.585804
Median Gross Rent as a Percentage of Household Income	12.906144	-1.141397
Median Value	16,514,398.794829	-1,396,227.158983
Median Selected Monthly Owner Costs	2,188.036456	-172.526766
Median Selected Monthly Owner Costs as a Percentage of Household Income	3.648416	-0.312675

Table E-2000   a & b Parameters - 2000 American Community Survey -
Madison County, MS

Characteristics	a	b
POPULATION		
Average Household Size	0.091189	-0.008819
Average Family Size	0.089861	-0.008674
Median Age	13.579714	-1.204574
Median Age by Sex	22.257534	-2.101980
Birth Rate	787.307941	-73.013815
Mean Travel Time to Work (In Minutes)	18.361524	-1.723060
Median Household Income	62,160,679.307811	-5,635,807.211476
Mean Household Income (Total or Earnings)	163,930,537.855709	-15,641,189.308048
Mean Household Income (Social Security)	3,500,157.039567	-375,768.779298
Mean Household Income (Retirement)	270,855,955.130638	-32,648,013.146982
Mean Household Income or Benefits (Supplemental Security)	8,646,967.476999	-1,104,015.030104
Mean Household Income or Benefits (Public Assistance)	505,446.458623	-61,374.442134
Median Family Income	361,035,891.322556	-35,779,800.260098
Median Nonfamily Income	338,915,430.316487	-37,475,776.256236
Mean Family & Nonfamily Income	86,183,442.395638	-7,799,962.062597
Median Person Earnings	23,328,500.160409	-2,121,571.472561
Per Capita Income	25,395,152.945223	-2,212,522.256975
HOUSING		
Median Number of Rooms	0.167228	-0.015313
Median Year Built	7.027149	-0.582144
Median Year Householder Moved into Unit	2.391801	-0.136478
Median Gross/Contract Rent	16,059.185869	-1,765.080145
Median Gross Rent as a Percentage of Household Income	52.802080	-5.671403
Median Value	340,572,624.779533	-33,872,583.524563
Median Selected Monthly Owner Costs	878.508400	-9.705783
Median Selected Monthly Owner Costs as a Percentage of Household Income	2.088335	-0.187127

Table E-2000 a & b Parameters - 2000 American Community Survey - Flathead / Lake Counties, MT

Characteristics	a	b
POPULATION		
Average Household Size	0.068434	-0.006376
Average Family Size	0.032016	-0.002916
Median Age	3.425271	-0.290895
Median Age by Sex	3.999898	-0.360646
Birth Rate	1,238.933316	-113.333242
Mean Travel Time to Work (In Minutes)	4.419481	-0.387861
Median Household Income	33,276,887.889449	-3,064,309.672719
Mean Household Income (Total or Earnings)	219,873,146.479148	-19,926,359.101678
Mean Household Income (Social Security)	1,478,482.053704	-148,915.009598
Mean Household Income (Retirement)	2,876,529.177974	-195,869.047007
Mean Household Income or Benefits (Supplemental Security)	5,631,420.229980	-730,446.084571
Mean Household Income or Benefits (Public Assistance)	1.000000	3,352.395468
Median Family Income	36,287,211.984557	-3,373,658.381476
Median Nonfamily Income	52,813,665.130058	-5,450,889.136249
Mean Family & Nonfamily Income	1.000000	1,596,268.802759
Median Person Earnings	3,694,985.986078	-306,947.590713
Per Capita Income	60,051,234.326828	-5,110,778.156304
HOUSING		
Median Number of Rooms	0.116697	-0.009891
Median Year Built	5.378100	-0.364158
Median Year Householder Moved into Unit	1.123641	-0.011674
Median Gross/Contract Rent	3,079.715680	-319.888473
Median Gross Rent as a Percentage of Household Income	171.433718	-18.589620
Median Value	48,506,847.710396	-3,921,542.236705
Median Selected Monthly Owner Costs	6,204.183813	-520.688029
Median Selected Monthly Owner Costs as a Percentage of Household Income	1.688923	-0.126340

Table E-2000   a & b Parameters - 2000 American Community Survey -
Douglas County, NE

Characteristics	a	b
POPULATION		
Average Household Size	0.013508	-0.001105
Average Family Size	0.018339	-0.001526
Median Age	1.753668	-0.133910
Median Age by Sex	3.484697	-0.281258
Birth Rate	619.083963	-51.634731
Mean Travel Time to Work (In Minutes)	2.152772	-0.171606
Median Household Income	14,923,192.658225	-1,217,980.360322
Mean Household Income (Total or Earnings)	33,238,597.854876	-2,690,227.032297
Mean Household Income (Social Security)	2,316,203.997543	-214,483.315952
Mean Household Income (Retirement)	23,969,290.188461	-2,340,750.598129
Mean Household Income or Benefits (Supplemental Security)	9,418,655.471033	-1,105,359.302222
Mean Household Income or Benefits (Public Assistance)	474,842.744941	-50,046.358799
Median Family Income	16,248,202.732266	-1,351,209.803582
Median Nonfamily Income	42,636,244.098160	-3,803,238.430756
Mean Family & Nonfamily Income	27,361,241.882580	-2,221,721.702519
Median Person Earnings	5,159,219.990034	-405,495.372695
Per Capita Income	5,048,400.215842	-380,749.598082
HOUSING		
Median Number of Rooms	0.077477	-0.005545
Median Year Built	5.753737	-0.390651
Median Year Householder Moved into Unit	2.752149	-0.144701
Median Gross/Contract Rent	3,908.934539	-348.706925
Median Gross Rent as a Percentage of Household Income	16.989099	-1.520747
Median Value	54,311,292.953340	-4,620,376.548159
Median Selected Monthly Owner Costs	688.053992	-49.959782
Median Selected Monthly Owner Costs as a Percentage of Household Income	1.314879	-0.109542

Table E-2000   a & b Parameters - 2000 American Community Survey -
Bronx Borough, NY

Characteristics	a	b
POPULATION		
Average Household Size	0.013902	-0.001054
Average Family Size	0.006968	-0.000267
Median Age	0.296786	-0.019535
Median Age by Sex	1.731074	-0.127339
Birth Rate	461.574350	-34.963059
Mean Travel Time to Work (In Minutes)	8.561663	-0.648228
Median Household Income	28,144,751.995934	-2,138,549.863731
Mean Household Income (Total or Earnings)	4,131,262.220754	-300,631.027239
Mean Household Income (Social Security)	384,034.049970	-31,777.536867
Mean Household Income (Retirement)	2,677,059.114952	-226,539.395320
Mean Household Income or Benefits (Supplemental Security)	358,783.687817	-31,330.485057
Mean Household Income or Benefits (Public Assistance)	220,782.507521	-19,121.065139
Median Family Income	36,119,213.147920	-2,840,417.931136
Median Nonfamily Income	1.000000	68,420.479295
Mean Family & Nonfamily Income	97,167.349588	21,461.159872
Median Person Earnings	1,049,892.524402	-69,782.708686
Per Capita Income	7,561,538.465665	-536,132.506955
HOUSING		
Median Number of Rooms	0.089113	-0.006038
Median Year Built	8.560179	-0.576959
Median Year Householder Moved into Unit	10.953639	-0.764025
Median Gross/Contract Rent	51.007601	-2.662103
Median Gross Rent as a Percentage of Household Income	1.170004	-0.081898
Median Value	1.000000	1,644,723.692600
Median Selected Monthly Owner Costs	6,885.086562	-531.923452
Median Selected Monthly Owner Costs as a Percentage of Household Income	5.572284	-0.482320

Table E-2000   a & b Parameters - 2000 American Community Survey -
          Rockland County, NY

Characteristics	a	b
POPULATION		
Average Household Size	0.031113	-0.002697
Average Family Size	0.027659	-0.002382
Median Age	9.926589	-0.789602
Median Age by Sex	13.681225	-1.148611
Birth Rate	395.559546	-31.585383
Mean Travel Time to Work (In Minutes)	4.539672	-0.367977
Median Household Income	73,670,877.055207	-6,294,982.507989
Mean Household Income (Total or Earnings)	98,089,408.416055	-8,277,227.169094
Mean Household Income (Social Security)	1,644,415.037788	-158,033.506206
Mean Household Income (Retirement)	140,533,928.986128	-14,272,641.324209
Mean Household Income or Benefits (Supplemental Security)	8,284,863.848655	-984,242.137637
Mean Household Income or Benefits (Public Assistance)	628,610.000957	-69,028.087585
Median Family Income	113,946,936.875522	-10,005,447.478268
Median Nonfamily Income	281,374,332.066619	-27,866,556.640042
Mean Family & Nonfamily Income	143,595,449.440148	-12,413,899.625858
Median Person Earnings	14,229,967.185219	-1,109,738.823543
Per Capita Income	12,531,579.121499	-972,210.956564
HOUSING		
Median Number of Rooms	0.001685	0.001118
Median Year Built	4.928239	-0.342738
Median Year Householder Moved into Unit	3.828818	-0.247436
Median Gross/Contract Rent	401.880421	-33.321612
Median Gross Rent as a Percentage of Household Income	25.397935	-2.472776
Median Value	346,239,741.202487	-31,349,459.357965
Median Selected Monthly Owner Costs	2,513.415609	-154.482631
Median Selected Monthly Owner Costs as a Percentage of Household Income	3.545196	-0.311431

Table E-2000   a & b Parameters - 2000 American Community Survey -
Franklin County, OH

Characteristics	a	b
POPULATION		
Average Household Size	0.021264	-0.001630
Average Family Size	0.029687	-0.002342
Median Age	3.549339	-0.255195
Median Age by Sex	10.720147	-0.811279
Birth Rate	750.453363	-58.667638
Mean Travel Time to Work (In Minutes)	2.654853	-0.199575
Median Household Income	15,040,850.396486	-1,148,034.477131
Mean Household Income (Total or Earnings)	21,749,711.093748	-1,643,919.228721
Mean Household Income (Social Security)	1,391,911.450139	-121,534.994831
Mean Household Income (Retirement)	11,848,547.564962	-1,052,548.127542
Mean Household Income or Benefits (Supplemental Security)	3,639,539.800681	-380,633.455454
Mean Household Income or Benefits (Public Assistance)	919,985.118335	-90,491.933185
Median Family Income	50,517,837.103551	-4,016,644.667076
Median Nonfamily Income	31,878,188.796425	-2,617,895.284269
Mean Family & Nonfamily Income	28,920,534.194864	-2,247,152.398844
Median Person Earnings	5,870,152.697873	-436,823.750962
Per Capita Income	6,711,744.048107	-479,863.634192
HOUSING		
Median Number of Rooms	0.032871	-0.001751
Median Year Built	5.420516	-0.338409
Median Year Householder Moved into Unit	2.709371	-0.131732
Median Gross/Contract Rent	3,000.716407	-245.417876
Median Gross Rent as a Percentage of Household Income	16.030388	-1.313559
Median Value	114,277,536.192637	-9,187,520.244310
Median Selected Monthly Owner Costs	2,193.685393	-168.716654
Median Selected Monthly Owner Costs as a Percentage of Household Income	1.944769	-0.154895

Table E-2000   a & b Parameters - 2000 American Community Survey -
Multnomah County, OR

Characteristics	a	b
POPULATION		
Average Household Size	0.012471	-0.000989
Average Family Size	0.015050	-0.001221
Median Age	2.911673	-0.216945
Median Age by Sex	4.134778	-0.324931
Birth Rate	406.327296	-32.717253
Mean Travel Time to Work (In Minutes)	2.700574	-0.208730
Median Household Income	13,595,383.733359	-1,072,176.045198
Mean Household Income (Total or Earnings)	10,345,170.261986	-794,871.583255
Mean Household Income (Social Security)	1,209,950.326982	-108,533.818867
Mean Household Income (Retirement)	8,927,403.179287	-823,071.573048
Mean Household Income or Benefits (Supplemental Security)	2,610,638.106741	-282,032.741844
Mean Household Income or Benefits (Public Assistance)	319,435.076659	-31,729.504011
Median Family Income	16,049,566.763178	-1,309,767.075189
Median Nonfamily Income	8,485,600.920083	-683,863.445101
Mean Family & Nonfamily Income	11,045,961.282705	-839,253.232534
Median Person Earnings	1,753,604.768704	-129,084.376811
Per Capita Income	2,456,830.879558	-178,995.976432
HOUSING		
Median Number of Rooms	0.012601	-0.000207
Median Year Built	5.112726	-0.299278
Median Year Householder Moved into Unit	1.104949	-0.008387
Median Gross/Contract Rent	213.151836	-16.763397
Median Gross Rent as a Percentage of Household Income	4.460212	-0.373749
Median Value	21,102,294.960485	-1,727,449.586599
Median Selected Monthly Owner Costs	599.323688	-41.602412
Median Selected Monthly Owner Costs as a Percentage of Household Income	1.280623	-0.103737

Table E-2000　a & b Parameters - 2000 American Community Survey -
　　　　　　　Schuylkill County, PA

Characteristics	a	b
POPULATION		
Average Household Size	0.045404	-0.004078
Average Family Size	0.018754	-0.001628
Median Age	5.110290	-0.429335
Median Age by Sex	9.103508	-0.809716
Birth Rate	693.762465	-63.901056
Mean Travel Time to Work (In Minutes)	5.573249	-0.485920
Median Household Income	28,220,684.580191	-2,501,546.840753
Mean Household Income (Total or Earnings)	15,737,085.638856	-1,390,819.775309
Mean Household Income (Social Security)	666,220.305714	-63,793.552257
Mean Household Income (Retirement)	3,376,289.389972	-332,296.181527
Mean Household Income or Benefits (Supplemental Security)	8,823,073.298154	-1,121,677.655136
Mean Household Income or Benefits (Public Assistance)	1,750,348.191399	-214,053.339577
Median Family Income	45,033,697.003856	-4,155,421.914760
Median Nonfamily Income	15,263,381.007665	-1,511,151.025782
Mean Family & Nonfamily Income	15,738,593.530398	-1,397,118.025100
Median Person Earnings	8,524,219.549108	-737,148.314244
Per Capita Income	3,178,655.401801	-261,833.045690
HOUSING		
Median Number of Rooms	0.028639	-0.001676
Median Year Built	187.113787	-18.474576
Median Year Householder Moved into Unit	5.405082	-0.350182
Median Gross/Contract Rent	12,972.367444	-1,387.293058
Median Gross Rent as a Percentage of Household Income	32.309127	-3.379065
Median Value	33,970,755.417097	-3,048,347.563239
Median Selected Monthly Owner Costs	1,412.079742	-118.209640
Median Selected Monthly Owner Costs as a Percentage of Household Income	5.477835	-0.505392

Table E-2000   a & b Parameters - 2000 American Community Survey -
Sevier County, TN

Characteristics	a	b
POPULATION		
Average Household Size	0.070660	-0.006685
Average Family Size	0.023133	-0.001966
Median Age	24.436341	-2.186600
Median Age by Sex	23.021182	-2.191940
Birth Rate	1,103.508581	-106.559439
Mean Travel Time to Work (In Minutes)	5.404041	-0.477188
Median Household Income	18,446,841.234603	-1,684,311.828272
Mean Household Income (Total or Earnings)	8,159,125.500196	-579,121.231714
Mean Household Income (Social Security)	1,562,337.118901	-155,999.644160
Mean Household Income (Retirement)	11,305,898.987534	-1,136,267.997062
Mean Household Income or Benefits (Supplemental Security)	8,663,062.678751	-1,145,904.375522
Mean Household Income or Benefits (Public Assistance)	911,831.750769	-118,181.032105
Median Family Income	20,176,139.996962	-1,836,976.187472
Median Nonfamily Income	1.000000	318,108.220178
Mean Family & Nonfamily Income	25,659,413.068161	-2,226,407.266890
Median Person Earnings	6,190,034.794670	-536,801.768879
Per Capita Income	974,907.046596	-59,978.196699
HOUSING		
Median Number of Rooms	0.177688	-0.015029
Median Year Built	21.225408	-1.921570
Median Year Householder Moved into Unit	1.979950	-0.094834
Median Gross/Contract Rent	2,895.893043	-302.694360
Median Gross Rent as a Percentage of Household Income	49.075815	-5.371752
Median Value	202,787,885.448668	-19,869,106.923522
Median Selected Monthly Owner Costs	976.009802	-39.360416
Median Selected Monthly Owner Costs as a Percentage of Household Income	5.622688	-0.512943

Table E-2000   a & b Parameters - 2000 American Community Survey -
Fort Bend / Harris Counties, TX

Characteristics	a	b
POPULATION		
Average Household Size	0.049250	-0.003482
Average Family Size	0.051313	-0.003694
Median Age	5.822389	-0.384274
Median Age by Sex	11.130023	-0.769077
Birth Rate	936.040495	-66.406338
Mean Travel Time to Work (In Minutes)	5.257883	-0.362446
Median Household Income	22,706,969.752136	-1,593,583.456177
Mean Household Income (Total or Earnings)	31,214,294.148565	-2,179,315.574698
Mean Household Income (Social Security)	2,775,122.656414	-224,163.676740
Mean Household Income (Retirement)	18,709,564.275156	-1,527,465.437255
Mean Household Income or Benefits (Supplemental Security)	3,494,795.840912	-332,254.549603
Mean Household Income or Benefits (Public Assistance)	782,543.316690	-71,185.620138
Median Family Income	33,658,230.958174	-2,412,129.414796
Median Nonfamily Income	40,614,916.796454	-3,134,121.617016
Mean Family & Nonfamily Income	49,502,930.743716	-3,547,830.436354
Median Person Earnings	12,699,777.095076	-865,543.044486
Per Capita Income	5,143,090.693062	-336,445.568602
HOUSING		
Median Number of Rooms	0.064907	-0.003877
Median Year Built	5.684183	-0.330757
Median Year Householder Moved into Unit	4.110190	-0.220975
Median Gross/Contract Rent	1,880.084893	-139.803596
Median Gross Rent as a Percentage of Household Income	14.640772	-1.102137
Median Value	42,104,702.206285	-3,092,789.413075
Median Selected Monthly Owner Costs	6,483.207220	-473.024651
Median Selected Monthly Owner Costs as a Percentage of Household Income	3.619092	-0.267271

Table E-2000 a & b Parameters - 2000 American Community Survey -
Starr / Zapata Counties, TX

Characteristics	a	b
POPULATION		
Average Household Size	0.334577	-0.033593
Average Family Size	0.145417	-0.014219
Median Age	9.524018	-0.811763
Median Age by Sex	21.186717	-1.985536
Birth Rate	144.681430	22.103583
Mean Travel Time to Work (In Minutes)	38.256898	-3.550137
Median Household Income	1.000000	180,218.941210
Mean Household Income (Total or Earnings)	1.000000	334,567.470793
Mean Household Income (Social Security)	1,574,470.802872	-158,724.613810
Mean Household Income (Retirement)	43,750,510.937548	-5,602,002.267817
Mean Household Income or Benefits (Supplemental Security)	1,290,102.067968	-148,612.040976
Mean Household Income or Benefits (Public Assistance)	129,692.560711	-12,450.060696
Median Family Income	1,570,152.704267	15,761.937318
Median Nonfamily Income	1.000000	333,296.642208
Mean Family & Nonfamily Income	1.000000	424,886.472544
Median Person Earnings	2,527,101.672886	-218,459.212132
Per Capita Income	1.000000	20,704.619526
HOUSING		
Median Number of Rooms	0.043523	-0.003327
Median Year Built	79.654775	-7.796543
Median Year Householder Moved into Unit	2.144145	-0.116728
Median Gross/Contract Rent	670.105441	-19.520739
Median Gross Rent as a Percentage of Household Income	38.424781	-2.044169
Median Value	553,354,152.423464	-57,862,056.487886
Median Selected Monthly Owner Costs	7,283.592930	-758.893055
Median Selected Monthly Owner Costs as a Percentage of Household Income	6.950085	-0.628440

Table E-2000   a & b Parameters - 2000 American Community Survey -
Yakima County, WA

Characteristics	a	b
POPULATION		
Average Household Size	0.049313	-0.004338
Average Family Size	0.053212	-0.004664
Median Age	8.003135	-0.649037
Median Age by Sex	10.565359	-0.907084
Birth Rate	593.004069	-48.223010
Mean Travel Time to Work (In Minutes)	4.358659	-0.369875
Median Household Income	19,909,395.593343	-1,701,174.206953
Mean Household Income (Total or Earnings)	24,161,414.504551	-2,065,970.652673
Mean Household Income (Social Security)	1,092,053.266923	-104,384.764503
Mean Household Income (Retirement)	109,675,903.970299	-11,395,029.995150
Mean Household Income or Benefits (Supplemental Security)	1,554,777.286424	-166,333.330614
Mean Household Income or Benefits (Public Assistance)	1,242,784.321437	-135,799.935042
Median Family Income	29,344,285.156211	-2,500,199.052298
Median Nonfamily Income	35,332,411.776552	-3,442,392.229654
Mean Family & Nonfamily Income	15,016,814.266910	-1,227,179.068302
Median Person Earnings	5,302,348.837682	-443,892.466508
Per Capita Income	4,968,860.263437	-396,777.274764
HOUSING		
Median Number of Rooms	0.011809	-0.000160
Median Year Built	8.216715	-0.639814
Median Year Householder Moved into Unit	4.624479	-0.323406
Median Gross/Contract Rent	3,298.317812	-313.402267
Median Gross Rent as a Percentage of Household Income	54.678588	-5.337740
Median Value	60,492,471.014315	-5,451,381.366234
Median Selected Monthly Owner Costs	2,246.975520	-151.646529
Median Selected Monthly Owner Costs as a Percentage of Household Income	5.119549	-0.472144