

4/15/14

2014 AMERICAN COMMUNITY SURVEY RESEARCH AND EVALUATION REPORT MEMORANDUM SERIES #ACS14-RER-14

2014 DSSD AMERICAN COMMUNITY SURVEY MEMORANDUM SERIES #ACS14-R-02

MEMORANDUM FOR ACS Research and Evaluation Advisory Group

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Subject: Using Reimputation Methods to Estimate the Variances of

Estimates of the American Community Survey Group Quarters Population with the New Group Quarters Imputation Methodology

Attached is the final American Community Survey Research and Evaluation report for, "Using Reimputation Methods to Estimate the Variances of Estimates of the American Community Survey Group Quarters Population with the New Group Quarters Imputation Methodology". This report evaluated alternative methods to estimate the variances of ACS estimates of the group quarters population.

If you have any questions about this report, please contact Mark E. Asiala (301-763-3605) or Michael Beaghen (301-763-2981).

# Attachment

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April 14, 2014

Using Reimputation Methods to Estimate the Variances of Estimates of the American Community Survey Group Quarters Population with the New Group Quarters Imputation Methodology

FINAL REPORT

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#### 1. Introduction

#### 1.1 Problem Statement

The Census Bureau has implemented a new imputation program to enhance ACS estimates of the group quarters (GQ) population for small areas. The GQ imputation presents novel challenges for variance estimation, both because it is a mass imputation with roughly as much imputed data as sampled data, and because the GQ facilities being imputed to are not missing, but rather, not-in-sample.

In previous years, the ACS has implemented successive differences replication (SDR) to estimate variances (Fay and Train, 1995). We understood that naively applying SDR to data augmented by imputation, i.e., treating the imputed records as sample, would lead to a serious underestimation of variances. Hence, starting with the 2011 1-year, 2009-2011 3-year, and 2007-2011 5-year ACS estimates, the ACS program has implemented a method that applies inflation factors to the replicates weights of GQ persons (Asiala and Castro, 2012). While this method is better than the naive variance estimator, it is crude, with the same inflation factor used for all characteristics and for the entire state. A better method would reflect the variances by characteristic and for substate geographies. It was the search for such improvements which was the impetus for exploring reimputation methods.

In this study we assessed the feasibility and soundness of using random groups with reimputation to estimate variances for the 2013 data-year products. We note that ACS GQ data lends itself to the formation of random groups, and thus to reimputation with random groups. We also evaluated the previously used SDR methodology, and the current methodology for estimating variances of the GQ population, SDR with inflation factors. We compared the variances for SDR with inflation factors and random groups with reimputation methods for the 2012 1-year ACS estimates for states and for larger counties. We used standard errors obtained through simulations of the ACS GQ population sampling as a benchmark to compare the alternative methods.

#### 1.2 Overview

The GQ imputation is a random hot deck imputation that copies a whole vector of person characteristics from one person record into the recipient. Whole person imputation preserves the relationships between the characteristics, which yields more realistic imputations and prevents a difficult data editing process.

To estimate variances for the 2011 data-year ACS estimates, (2011 1-year, 2009-2011 3-year, and 2007-2011 5-year ACS estimates, which were released mostly in calendar year 2012), and the 2012 data-year ACS estimates, (2012 1-year, 2010-2012 3-year, and 2008-2012 5-year ACS estimates), SDR with inflation factors was used for GQ persons. Imputed person records were initially treated like sample and assigned successive difference replicates (see Asiala and Castro, 2012). Then, an inflation factor was applied to these replicates to account for the imputed data not being sample. To determine these inflation factors, 40 simulations were run that redid the GQ imputation process for each not-in-sample GQ facility. These simulations were analogous to the multiple imputations of multiple imputation methodology. However, they captured only the variation of the random mechanism of the imputation. This is not equivalent to the between-imputation variance as defined for multiple imputation methodology, which captures both the variance of the random mechanism of the imputation and the sampling variation in the imputation. Thus we expected that the method of applying inflation factors lead to some degree of underestimation of the estimates of variance.

Reimputation with replication methods of variance estimation may yield useful estimates of variance in the context of the GQ imputation. If sound, they could provide improved variances estimates for each characteristic and for substate geographies. Reimputation with the jackknife, balanced half-sample and bootstrap replication methods is described in Jun Shao's chapter in the book Survey Nonresponse (Shao, 2002), and reimputation used with the random group method is described in Shao and Tang (2011). The basic method of reimputation is that for each replicate or pseudo-replicate one reimputes for the missing data independently from the restricted donor pool defined by the replicate or pseudo-replicate. Shao's papers show that reimputation methods provide asymptotically unbiased estimates of variance for imputation with deterministic imputations, such as regression imputation, and that the random group and bootstrap methods are unbiased for random imputation such as the random hot deck. While

the balanced half-sample and jackknife methods are biased for random imputations, Shao provides adjustments that eliminate these biases asymptotically.

Reimputation methods have some resemblances with multiple imputation that make a brief comparison worth discussing. Variance estimation with multiple imputation and reimputation are similar in computational form, in that both yield for each missing record a set of imputations that is used in the variance estimation. For both methods, these sets of imputations capture both the variation of the imputation's stochastic mechanism, and the variance of imputation attributable to the fact that the imputation is conditioned on data that is itself subject to sampling variation. However, there are important differences. Reimputation methods are strictly a variance estimation methodology, whereas multiple imputation is an imputation methodology, albeit one that yields correct variance estimation in the context of imputation. For a given application, multiple imputation may be superior to other imputation methodologies, or it may be suboptimal; though for other applications it may be impractical or unfeasible to implement. Reimputation is feasible for any sampling and estimation methodology for which one can use replication methods of variance estimation.

# 2. Background

# 2.1 The Group Quarters Population

According to the 2010 Census 7,987,323 persons resided in group quarters (GQ) facilities. For ACS estimation we group the specific types of GQ facilities into the following seven major groups.

- 1) Correctional institutions
- 2) Juvenile facilities
- 3) Nursing homes
- 4) Other long-term care facilities
- 5) College dorms
- 6) Military facilities
- 7) Other non-institutional GOs

# 2.2 American Community Survey Sampling for the Group Quarters Population

For a better understanding of the issues in this paper, some description of the ACS GQ sample design is needed. The GQ frame is divided into two sampling strata within each state, a small GQ stratum and a large GQ stratum, each with different sampling methods. The small stratum consists of GQ facilities with expected populations of 15 or fewer and GQ facilities closed on April 1, 2010. Small stratum GQ facilities are sampled systematically within each state, sorted by small versus closed on census day, new GQ facility versus previously existing, GQ type (more detailed than the seven major types listed in Section 2.0), and geographical order (county, tract, block, street name, and GQ identifier). The sampling rate varies by state, being higher for states with the smallest GQ populations, but was about 1-in-40 (Marquette, 2011) for many states in the 2008, 2009 and 2010 ACS samples (the GQ sampling rates by state were changed for the 2011 ACS GQ sample). If there are 15 or fewer people found in a small stratum GQ facility, then everyone in the facility is in sample. If there are 16 or more people found in a small stratum GQ facility, then ten people are systematically selected from the facility.

The large stratum includes GQ facilities with expected populations of 16 or more. For each large stratum GQ selected to be in sample, one or more systematic samples of groups of ten people are taken to achieve the state sampling rate. All large GQ facilities in a state are sorted by GQ type and geographical order in the large GQ frame. On the 2007 GQ sampling frame, there were approximately 105,000 small stratum GQ facilities, 77,000 large stratum GQ facilities, and 3,000 facilities with an unknown population which were sampled like the small stratum GQ facilities (U.S. Census Bureau, 2009).

Of salience is that the sampling methodology for the GQ population is designed to produce optimal state-level estimates, as it is only for states or larger geographies that estimates of the characteristics of the GQ population are produced. Only the estimates of the total GQ population are published for geographies smaller than the state. While the sample stratification includes type of GQ and geography, the sampling rates are such that many counties and tracts do not have sample for particular major types of GQ facilities which nevertheless exist within them.

## 2.3 Overview of the Group Quarters Imputation Methodology

The objective of the GQ imputation is to improve the estimates of the GQ population for counties and tracts, thereby also improving estimates of the total resident population for counties and tracts. The limitations in the sample design can be viewed both in terms of high variances of estimates of the GQ population for substate geographies, as well as in a lack of representation of ACS sample in counties and tracts which are known to have GQ facilities. The description of the methodology given in this section is only an overview, for more details see Asiala et al (2011).

# 2.3.1 The Basic Approach of the Group Quarters Imputation

The approach to the problem is to populate select GQ facilities without ACS sample with person records copied from in-sample GQ facilities, with appropriate weighting adjustments. This imputation is a whole person imputation and not an item-level imputation. The whole set of person characteristics of the donor is copied to the recipient record (with the exception of geography-dependent variables; see Asiala et al 2011). However, the recipient record maintains the recipient GQ type and current residence geography. Imputing to not-in-sample facilities has the advantage for data processing that the imputed person records function as pseudo-sample and are transparent to the data processing and production of estimates.

#### 2.3.2 The Frame

The listing of GQ facilities to which we potentially impute is the ACS GQ sampling frame. In addition to the GQ listing, an important feature of the frame is population counts, which are needed in determining how many GQ person records to impute to a given GQ. For the GQ imputation the expected population sizes are updated based on observed rates of deleted GQ facilities and population controls.

## 2.3.3 Identify Group Quarters Facilities that Require Imputation

The GQ imputation imputes persons to a subset of not-in-sample GQ facilities on the frame. The GQ selection procedure gives priority to obtaining representation for each major GQ type group in each county for each year. Hence we refer to it as "county first". Then facilities are selected to establish representation for each major type group at the tract level for every 5-year period. Imputing to all not-in-sample facilities would have required imputing a prohibitively large number of records. The selection of not-in-sample GQ facilities for imputation is prioritized as follows.

- The primary objective is to establish representation of county by major type of GQ in the tabulations for each combination that exists on the frame for each 1-year period.
- A secondary objective is to establish representation of tract by major type of GQ for each combination that exists on the frame, as is reasonably feasible, for each 5-year period.

These priorities lead to a scheme where all large stratum GQ facilities are imputed to, but only a sample of small stratum GQ facilities are imputed to so that the second objective is met. Note that the second objective is relevant only to the 5-year estimates, for which we produce tract-level estimates.

# 2.3.4 Determining How Many Group Quarters Persons to Impute

How many imputed person records each not-in-sample GQ facility receives is a function of its expected population, which is either modeled or observed from previous years' data. Further, for this determination we make a distinction between small and large GQ facilities. We impute a number of persons into selected not-in-sample GQ facilities to obtain a rate roughly similar to that of the overall sampling rate of the GQ population in a given state. For details see Asiala et al (2011).

# 2.3.5 Select Donors: The Expanding Search Method

The imputation method is a random hot deck. The donor selection method is referred to as the expanding search approach (Erdman and Nagaraja, 2010). The donor selection procedure chooses from within specific type when the donor to imputation ratio within the specific type is large enough for this to be feasible, and gives preference to donors from facilities that are geographically close. Note that for each year of imputation, donors are selected only from that same year. Once a GQ facility has been selected for imputation, the donor pool for that facility is set to be the first combination of geography and GQ type in the following list in which there is at least one donor per five imputed records needed. Donors are recruited first in the lower ranking step starting with step 1. If a suitable donor is not found in a given step, then the search is repeated in the following step.

- 1. County and specific type
- 2. County and major type
- 3. State and specific type
- 4. State and major type
- 5. Division and specific type (a census division is a grouping of states and the District of Columbia; the nine divisions are subdivisions of the four census regions)
- 6. Division and major type
- 7. Region and specific type (the four census regions are groupings of states and the District of Columbia)
- 8. Region and major type
- 9. Specific type
- 10. Major type

Note that the weights of the sampled GQ persons do not play a role in the donor selection. Furthermore, there is no grouping of donors, only the search areas.

# 2.3.6 Weighting with the Group Quarters Imputation

The new imputation methodology implied a new weighting scheme which made a clean break from the old weighting design that was used for ACS estimates released prior to 2012. A key feature of the new weighting procedure is that it is applied to the augmented data, making no distinction between sampled and imputed GQ person records. For details see Asiala, Beaghen, and Navarro (2011).

# 2.4 Successive Differences Replication

Unbiased estimates of variances for ACS estimates do not exist because of the systematic sample design, as well as the ratio adjustments used in estimation. The SDR was designed to be used with systematic samples for which the sort order of the sample is informative (Fay and Train, 1995), as in the case of the ACS's geographic sort. An advantage of SDR is that the variance estimates can be computed without consideration of the form of the statistics or the complexity of the sampling or weighting procedures, such as those being used by the ACS. Since the start of the ACS, SDR has been the method used to produce estimates of variance of estimates of housing units, households, and persons living in households. It was also the method of estimating the variances of the GQ population through the 2010 ACS. Starting with the implementation of the GQ imputation, SDR has been modified for the GQ population with inflation factors (Asiala and Castro, 2012).

SDR is closely related to the successive differences method of variance estimation. Wolter (1985) describes the successive differences method for estimating variances for systematic samples. Ash (2011) describes in more detail the relationship between SDR and successive differences, showing under what circumstances they are equivalent and how SDR when used by the Census Bureau approximates successive differences.

Applications of SDR were developed to produce estimates of variances for the Current Population Survey (U.S. Census Bureau, 2006), where it has been in use since 1995. SDR was also used for the Census 2000 Long Form estimates (Gbur & Fairchild, 2002). Schindler (2005) compared SDR with the jackknife for Census 2000 sample data and found the SDR compared favorably. Ash (2011) conducted simulations examining empirically SDR with data with several artificial data sets and one real data set with various underlying structures, demonstrating empirically the soundness of the SDR method for certain situations. Wolter (1985) had previously investigated empirically the soundness of the closely related successive differences method.

For producing ACS estimates, the first step in implementing the SDR method is the construction of the replicate factors. Next, replicate base weights (the inverse of the probability of sampling) are calculated by multiplying the base weight for each GQ person (or housing unit) by the factors. The weighting process then is rerun, using each set of replicate base weights in turn, to create final replicate weights. Replicate estimates are created by using the same estimation method as the original estimate, but applying each set of replicate weights instead of the original weights. Finally, the replicate and original estimates are used to compute the variance estimate based on the variability between the replicate estimates and the full sample estimate. For the ACS, the number of replicates is 80. These replicates are translated into 80 replicate weights for each person and housing unit record via a Hadamard matrix. More details of this weighting and processing can be found in U.S. Census Bureau (2009).

## 2.5 Modification of Successive Differences Replication with Inflation Factors

To implement the GQ imputation, a new variance estimation methodology was needed that would properly account for the imputation variance component in addition to the sampling variance component. Applying SDR naively to the set of sampled and imputed records would result in a significant underestimate of the total variance. For this reason, Asiala and Castro (2012) developed a method to adjust the SDR variance estimate to account for the imputation variance. A key requirement was that any methodology would need to be incorporated into the ACS replicate weight variance methodology in order to minimize the impact on tabulation systems for producing ACS estimates. The ACS is presently limited to a system of variance estimation that is replicate weight based due to our tabulation system. Given that limitation and the available development time, it was decided to employ a relatively simple process of inflating the naive variance estimate using a set of inflation factors.

To determine the inflation factors, Asiala and Castro created a set of 40 imputations. In the context of repeated or multiple imputation, one obtains variance estimates for the within and between imputations (Rubin, 1996). The naive sampling variance is known as the within imputation variance. The between imputation variance is the variance among the resulting estimates stemming from the 40 repeated imputations. From these data, a single set of inflation factors was created that was used to adjust the variances for all characteristics. Due to constraints of the ACS tabulation system, one cannot adjust for the variance due to imputation differently for every characteristic or combination of characteristics. Therefore the goal was to estimate one overall adjustment for the increase in variance due to imputation per state by major type. Asiala and Castro observed that there was considerable variation in the degree of imputation by state and major type and that the amount of sampled data could be relatively thin at lower levels of geography such as county. Thus they created an inflation factor for each characteristic at the state by major type level across counties, and then created an average inflation factor across the characteristics.

The goal for the overall inflation factors was to be able to make one adjustment that would approximate the characteristic-level inflation factors while being slightly conservative to avoid significantly underestimating the variances for some characteristics. For this reason, it was decided that the average inflation factor across characteristics for a given state/major type combination would not be the best choice given that it would tend to underestimate the variances for approximately half of the characteristics. Instead, the overall inflation factor was calculated using two additional considerations. The first was that the average was computed as a weighted average based on the number of data items within the characteristic. The second consideration was combining this weighted average with the maximum characteristic inflation factor by using the minimum of (weighted average + 0.2, maximum inflation factor). This allowed the overall inflation factor to deviate from the weighted average up to smaller of 0.2 or the maximum characteristic inflation factor. The distance of 0.2 covered the difference between the maximum inflation factor and the weighted average approximately 95 percent of the time. The result was that overall inflation factor for each state/type combination was greater than approximately 90 percent of the characteristic inflation factors.

## 2.6 Variance Estimation with Random Groups with Reimputation

The random group estimator of variance,  $V(\hat{\theta})$ , is given by (Wolter, 1985)

$$V(\hat{\theta}) = \frac{1}{k(k-1)} \sum_{i=1}^{k} \left( \hat{\theta}_i - \hat{\bar{\theta}} \right)^2$$

Where  $\hat{\theta}_i$  are the estimates of  $\theta$  based on the  $i^{th}$  random group, and

$$\hat{\bar{\theta}} = \frac{1}{k} \sum_{i=1}^{k} \hat{\theta}_i$$

Random groups must be formed such that each random group has essentially the same sample design as the parent sample (Wolter, 1985). In the case of the ACS GQ sample, the original sampling design is one-stage stratified sampling with two strata for each state equivalent, and systematic sampling within each stratum. Thus each random group should contain both strata. Wolter discusses the random group method in the context of systematic sampling.

The random groups method does not fully reflect variance reduction due to the systematic sampling. With a systematic sampling interval of t, with k random groups each group would effectively have a systematic sampling interval of kt. We conjecture that much of the variance reduction due to the systematic sample is obviated by the GQ imputation. In any case, smaller k produces groups more alike regarding the systematic sample.

With reimputation the random group variance estimator  $VR(\hat{\theta})$  has the same form as  $V(\hat{\theta})$ . We denote  $\hat{\theta}_i^R$  as the estimates of the parameter based on the i<sup>th</sup> random group with reimputation. With reimputation the imputation process is conducted independently for each random group, with both the recipient and donor pool determined by each group.

$$VR(\widehat{\theta}) = \frac{1}{k(k-1)} \sum_{i=1}^{k} \left(\widehat{\theta_i^R} - \widehat{\theta^R}\right)^2$$

With the random group method of variance estimation a perennial question is how many groups (k) to use. The random group variance estimator has smaller bias with fewer but larger groups (Wolter, 1985). However, it is less precise with fewer groups. With the large ACS group sample, bias may be the lesser concern, even with a larger number of groups. Hence larger k may prove to have a better mean squared error.

Shao and Tang (2011) show that the method of random groups with reimputation is asymptotically unbiased for simple random sampling without replacement as:

$$n \to \infty$$
,  $n/k \to \infty$ , and  $n/N \to 0$ 

Since n and n/k are large for the ACS, and n/N is not large, bias due to reimputation may not be a concern for our problem. Thus when selecting k we can focus on the considerations typical to random groups. That is, the variance-bias tradeoff when selecting k, as discussed earlier (Wolter, 1985). Another consideration is to create groups which are like the parent sample. Smaller values of k, such as 2, 5, or 10, allow for all certainty GQ facilities to be represented in each group (we discuss why this is so later). Furthermore, smaller k better maintains variance gains of systematic sample, and also makes the donor pools for the reimputation larger, and thus more like imputation with the full data set.

# 2.7 Simulation Research on the Variances of Estimates with the Group Quarters Imputation

In the original research and development of the GQ imputation to obtain estimates of variances for the evaluation of the GQ imputation, Weidman (2011) ran simulations of the ACS sample selection process, simulating 25 runs with Census 2000 100-percent data (the basic demographic questions that all respondents received). For each of the 25 simulations the ACS weighting both with and without the GQ imputation was implemented and estimates produced. The variances estimated through these simulations fully reflect the sampling variation and the variance due to imputation. Weidman (2011) noted reductions in variances in the estimates with GQ imputation compared to the estimates without the GQ imputation.

# 3. Research Questions and Methodology

## 3.1 Research Questions

The primary research questions this study attempted to answer were these.

- Did SDR provide sound estimates of the variances of the GQ population for the 2010 1-year ACS (before the GQ imputation was implemented)?
- Were the variance estimates obtained by SDR with inflation factors (the 2012 data-year methodology) sufficiently sound for particular characteristics and for county-level estimates?
- Were the variance estimates obtained by reimputation with random groups sound? How sensitive are the results to the number of random groups used (five or ten)?
- How did the random groups with reimputation variance estimates compare with the SDR with inflation factors by characteristic and for county-level estimates?

We use the adjective sound above in a loose, practical sense. Asiala and Castro (2012) examined the magnitudes of the estimated variances produced by SDR with inflation factors and deemed them acceptable. Ultimately, the assessments made in this report are relative to how the alternatives compare to this current ACS methodology.

### 3.2 Reimputation Methodology

This section describes the implementation of the reimputation with random groups for the ACS GQ person data with the GQ imputation.

## 3.2.1 Application of Reimputation Methods to ACS Group Quarters Data

In more typical imputation methods, the units imputed to are sampled units which are nonresponding or have incomplete information, that is, whole unit or item nonresponse. In contrast, in the GQ imputation, the units imputed to are not-in-sample cases. Since this application is unusual, a few words are required to suggest why we think the reimputation may yield useful variance estimates. We can think about variance estimation in terms of repeated sampling along with subsequent imputation and estimation, with the resulting distribution of estimates describing the variance of those estimates. (This is what was done in Weidman's simulations). A variance estimator should obtain the statistics describing the distributions of the estimates under these repeated samplings. While in the production of official ACS estimates we cannot replicate the sampling and imputation in their entirety, the replicate methods try to mimic these processes. We can redo the entire imputation and estimation process within each replicate, which makes it reasonable to believe that replicate methods with reimputation may yield sound variance estimates.

#### 3.2.2 Which Replication Method to Use with Reimputation

Both the random group and delete-a-group jackknife (Kott, 1998) methods could potentially be used with reimputation for the ACS GQ data. Replicate groups can be formed from the ACS GQ data for both. For the random group method we created k replicate groups, whereas each of k jackknife pseudo-replicates would be formed by deleting one group from the entire data. Furthermore, the random group and delete-a-group jackknife are amenable to the replicate weight framework that is used in the production of ACS estimates and margins of error. In contrast, the ACS GQ data was not sampled in such a manner that it would lend itself to balanced half-sample or bootstrap approaches, nor are these methods amenable to the replicate weight processing which the ACS uses.

In choosing between the random group and delete-a-group jackknife methods with reimputation, the random group has two crucial advantages. First, the random group with reimputation method is unbiased when used with hot deck imputation (Shao, 2002). Second, it required fewer reimputations, just one for each imputed record. In contrast, the jackknife would require k-1 reimputations for each imputation, and it is biased with random imputation. (It might be possible to make an adjustment to control this bias with additional multiples of reimputations: Shao, 2002; however, this would have made the jackknife with reimputation even more unwieldy). The greater number of records required and the bias made the jackknife unsuitable for the production of ACS estimates, thus we only evaluated the random group with reimputation in this study.

# 3.2.3 Implementation of Reimputation with Random Groups

Reimputation with random group replication required forming k groups of both donors and recipients. Again, a key feature was that the donors and recipients came from the same group. Details on its implementation follow.

- 1) When using replicate methods with a systematic sample, the k replicate groups were formed by selecting every k<sup>th</sup> sampled unit to be in the k<sup>th</sup> group. For the ACS data with GQ imputation, the replicate groups also included not-in-sample units, both those imputed to and those not imputed to during the original, full-sample GQ imputation.
- 2) Implementing the random group method with reimputation required increasing the number of GQ person records used in the ACS estimation process. Each imputed person record had a reimputed record drawn from its corresponding random group (the group to which the not-in-sample case belongs). Since there were roughly as many imputed GQ person records as interviewed, reimputation with random groups increased the total number of GQ person records in ACS processing by about 50 percent.
- 3) The reimputed records had zero weight for the production of ACS estimates. However, their replicates weights were not zero and these records contributed to the estimation of the variances.

4) The random groups method can be easily parameterized in the ACS production replicate framework. Group membership is indicated with a replicate factor of one.

Details on the formation of the random groups follow.

- 5) Because we required each random group to have the same sample design as the parent sample, each certainty GQ facility was selected into each random group. (Large-stratum GQ facilities are selected with probability proportional to size, with the larger facilities being picked with certainty; the certainty cutoff depends on the sampling rate of the state).
- 6) Each sampled person within a certainty GQ facility was assigned uniquely to one random group. Since persons in large GQ facilities are selected in groups of ten in the ACS sampling, ten was the maximum number of groups we could have while maintaining groups with the same number of respondents within the certainty facilities. The number of groups had to be a factor of 10, i.e., 2, 5, or 10.
- 7) The noncertainty large-stratum GQ facilities, both sampled and not-in-sample, were assigned to random groups with a take-every of *k*. For the sampled noncertainty large stratum GQ facilities, all ten persons were assigned to the same random group.
- 8) The small-stratum GQ facilities, both sampled and not-in-sample, were selected to be in a random group with a take-every of *k*. For the sampled small-stratum GQ facilities, all sampled persons were assigned to the same random group.
- 9) For the small-stratum and noncertainty large-stratum GQ facilities, we maintained the GQ sampling sort order before selection and select both sampled and not-in-sample units in this order to form the *k* groups. If the take-every was *t*, their assignment into *k* random groups effectively increased the take every to *kt*.

#### 4. Metrics

#### 4.1 Sets of Variance Estimates

The research involved comparisons between several sets of variance estimates, which are listed below. While we expected the estimates of characteristics to differ among the 2000-based simulations, 2010 1-year ACS estimates, and 2012 1-year ACS estimates, this was not a limitation. The variances were nonetheless comparable, as the sample design for GQ persons was essentially the same for the various sets of estimates.

- The methodology for the production of 2012 1-year ACS estimates, which applied inflation factors to replicate weights.
- Reimputation with random groups of five and ten replicate groups for the 2012 1-year estimates.
- Methodology for the production of 2010 1-year ACS estimates, the last data-year before the implementation of the GQ imputation.
- Variances estimates based on 25 simulations of Census 2000 data (Weidman, 2011), both with and without the GQ imputation.

# 4.2 Research Characteristics

We included in the study the person characteristic data listed below. We examined all major demographics collected in the decennial census, but just a select few characteristics collected only in the ACS. The Census 2000-based simulations included only those demographic characteristics collected for every person, i.e., the 100-percent data.

Demographic Characteristics Collected in the Census 2000 (100-percent Data)

- Age groups: under 18, 18-34, and 65+
- Hispanic origin
- Race groups (alone): white, black, and Asian/Pacific islander
- Sex

Characteristics not collected in the Census 2000 (non 100-percent Data)

- Marital status
- Educational attainment (population 3 years and older)
- Speaks a language other than English at home (population 5 years and older)
- Disability status (civilian population 3 years and older)

We chose to examine characteristics whose estimates were in the form of proportions or totals because their calculations were straightforward. Some other characteristics, such as poverty or median income, would bring with them complexities of calculation that would not further the aims of the research. Further, we examined the estimates of variances of proportions rather than totals because the scaling makes the variances of various characteristics more comparable. By choosing to examine proportions we lost little generality, as the coefficients of variation for estimates of totals are equal to the coefficients of variation for estimates of proportions when the denominators in the proportions are controlled to, as is the case for many of the ACS demographics.

## 4.3 Summary Statistics

The summary statistics included mean and root mean square (RMS) differences between standard errors produced by the alternative variance estimators. We made these summaries over the 51 1-year ACS estimates for the state level variances of characteristics, and over groupings of 185 and 213 1-year ACS estimates of larger counties, depending on the size of the GQ population.

## 4.4 Criteria for Evaluation

We used the Census 2000-based simulations as a benchmark or truth deck. Since they are based on 25 random realizations of the sampling, these estimates of variances themselves are subject to sampling error. However, the 2010 and 2012 1-year ACS estimates were based on only one realization of the sampling process. Thus the sampling error of the variance estimates based on simulations is small compared to the sampling error of variance estimates based on the 2010 or 2012 data, perhaps on the order of 1/25<sup>th</sup>. In addition to examining the 2010 1-year ACS estimates (produced without the GQ imputation) for the soundness of the SDR, these estimates served as a useful upper bound for variance estimates, since we know the GQ imputation reduced the variances of the estimates (Weidman, 2011). The summary statistics described in Section 4.4 were the criteria for assessing the alternative variance estimators. However, we also plotted graphs of the distribution of SEs for the 51 states for two methods being compared.

# 5. Results

In the first page of Attachment A we show the estimated SEs for the proportion of males in each state equivalent for the seven different approaches listed below. Similar tables for the other characteristics studied in this report can be found in the subsequent pages of Attachment A. The tables and graphs found in this chapter are based on these and similar calculations for other characteristics.

Comparison data sets found in the Appendix.

- 1) Census-2000 based simulations with GQ imputation; this was the baseline for many of our comparisons.
- 2) SDR with inflation factors (research approach) for 2012 1-year ACS
- 3) SDR with inflation factors (as used in the production of ACS estimates) for 2012 1-year ACS
- 4) Ten Random groups with reimputation for 2012 1-year ACS
- 5) Five Random groups with reimputation for 2012 1-year ACS
- 6) Census-2000 based simulations with no GQ imputation
- 7) 2010 1-year ACS (no GQ imputation)

## 5.1 Evaluating the Successive Differences Replication by Comparing to the Simulations

We first considered the SDR without the GQ imputation, comparing its results to the 25 simulations. We did this for five of the characteristics included in the simulations. Table 1 shows the correlations over the 51 state equivalents of their SEs calculated by the Census 2000-based simulations (with no GO imputation) and their SEs calculated by

the SDR for the 2010 1-year ACS estimates. For example, the correlation of the two sets of SEs of the proportion male is 0.643.

Table 1: Correlation of the Standards Errors of Proportions of Characteristics over States between Simulations and Successive Differences Replication for ACS 2010 1-Year Estimates

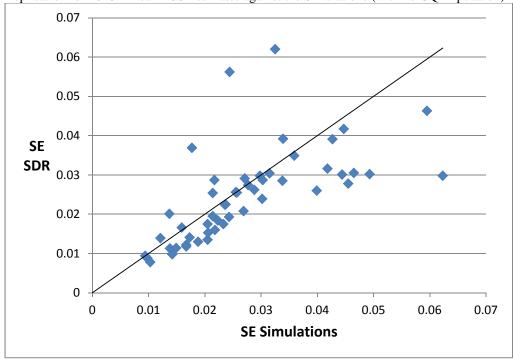
Characteristic	Correlation
Male	0.643
Hispanic Origin	0.344
Age: 65 Years or Older	0.623
Age: 18-34 Years	0.771
Age: 17 Years or Younger	0.392

Source: 2010 American Community Survey 1-year Data and Simulated Data

The data used to produce the correlations in Table 1 are plotted for the characteristic male in Figure 1. In the graph in Figure 1 each of the 51 points corresponds to one state equivalent. Note that the larger states have larger GQ populations and thus larger samples and smaller SEs. As one looks at states with higher SEs one finds smaller populations. For example, the point (0.0325, 0.062) on the X-axis and Y-axis corresponds to Montana, and the point (0.0595, 0.0463) corresponds to Utah.

For two characteristics, Hispanic origin, and 17 years of age or younger, the correlations were less than 0.5. However, their means are about the same (Beaghen, 2014). The similarities of the estimates of SEs between the SDR and the simulation generally support the soundness of the SDR approach for estimating the variances of estimates of the GQ population.

Figure 1: Scatterplot of Standard Errors of Proportion Male in GQ Population for States: Successive Differences Replication for 2010 1-Year ACS Estimates against the Simulations (with no GQ Imputation)



In Figure 2 we plot the same data as in Figure 1, however, using a Bland-Altman plot (Bland and Altman, 1999). The Y-axis indicates the difference between the SE obtained by the SDR and the SE obtained by the simulations, divided by the SE of the simulations. The X-axis shows the SE of the simulations, which is the same X-axis as in the plot in Figure 1. The Bland-Altman plot better reveals that for most states, the SE as estimated by the SDR is lower than that of the simulations. It also highlights the outliers relative to the size of the SEs. For example, Montana stands out more prominently as an outlier (0.0244, 1.30).

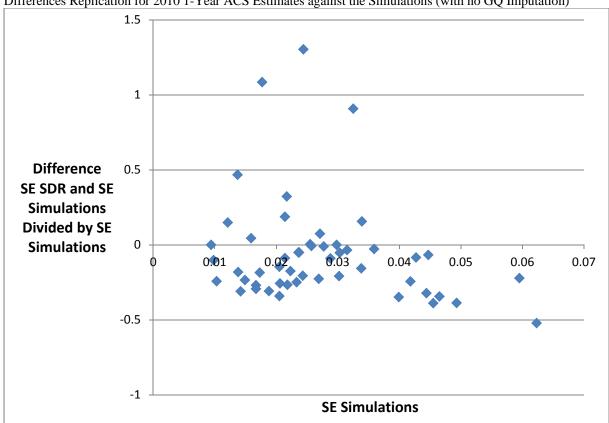


Figure 2: Bland-Altman Plot of Standard Errors of Proportion Male in GQ Population for States: Successive Differences Replication for 2010 1-Year ACS Estimates against the Simulations (with no GQ Imputation)

Source: 2010 American Community Survey 1-year Data and Simulated Data

# 5.2 Statistically Significant Differences between 2011 and 2012 1-Year ACS Estimates of Characteristics in the Group Quarters Population

Before examining SEs in the context of the GQ imputation we first note some supporting results from preliminary work. Jordan (2013) noted a high number of statistically significant differences when comparing the state-level estimates of multiple characteristics in the GQ population from 2011 to 2012. His observation was consistent with our expectation that the current ACS methodology for estimating the variances of estimates of characteristics of the GQ population leads to underestimates. For perspective, he also compared the state-level estimates of the same characteristics from 2008 to 2009. He compared multiple demographic and nondemographic characteristics for a total of 2,846 tests and 2,861 tests (51 state equivalents by 58 characteristic levels; though not all states had data for all characteristic levels). Between 2011 and 2012 24.2% of the differences were statistically significant at the 10% level. If there were no real change from year to year, and the variances used in the hypothesis tests were sound, then we would expect about 10% of the tests to be statistically significant. Because there are some genuine changes from year to year, Jordan looked at the 2008 to 2009 ACS GQ population. He found that there were 17.9% statistically significant changes. These results are consistent with an underestimation of the estimation of variances, though more genuine changes from 2011 to 2012 cannot be ruled out.

# 5.3 State-Level Analysis Evaluating the Successive Differences Replication by Comparing to the Simulations

Next we consider variance estimation in the context of the GQ imputation for state-level estimates. This analysis allows us to investigate the SEs by characteristic. It also allows us to gain insight into any degree of underestimation in the SEs yielded by the current methodology used to produce ACS estimates.

The mean differences, calculated over 51 state equivalents, as compared with the SE estimated by the simulation indicate possible under- or overestimation of the SE for a given method. In Table 2 we see these mean differences. The comparisons of the SDR with inflation factors to the simulations confirm a moderate underestimation of variance. For both the SDR with inflation factors, both the research and the production approach, the SEs were smaller than those of the simulations (in Table 2 we see that as a negative sign). For example, for the proportion male the SE of the SDR with inflation factors (production approach) averaged 0.006759 less than that of the SE from the simulations; (for comparison, the median SE for male by the simulations was 0.0189).

Table 2: Mean Difference in Estimates of SEs between Four Alternative Variance Estimators and the SEs Estimated by Simulations

Estimated by Simulation					
Characteristic	Ten Random	Five Random	SDR with Inflation	SDR with Inflation	
	Groups with	Groups with	Factors - Research	Factors - Production	
	Reimputation	Reimputation	Approach	Approach	
Male	-0.003441	-0.004467	-0.006001	-0.006759	
Hispanic Origin	0.001554	0.000076	-0.000209	-0.001061	
Age 65 years and	-0.000002	0.001002	0.001049	-0.000513	
Over					
Age Under 18 years	-0.002194	-0.001572	-0.002459	-0.003027	
Age 18 to 34 years	0.000590	0.000682	0.000006	-0.001279	

Source: 2012 American Community Survey 1-year Data and Simulated Data

The root mean square (RMS) difference, calculated over 51 state equivalents, between an alternative estimate of SE and the simulation SE, is a measure of how close the alternative SE is to simulation SE. Again, if we consider the simulation SE as our benchmark, the RMS difference serves as a tool to evaluate the alternative SEs. In Table 3 we see the RSM differences between the alternative SEs and the simulation SE over five characteristics. We note that the SDR with inflation factors research approach is modestly closer to the simulations than the production approach. We expected this result as the inflation factors were capped at 1.4, though the research approach suggested higher caps for several state/GQ type combinations. Clearly, the ten random groups with reimputation outperformed the five, with consistently smaller RMS differences. However, we see no advantage for the random group with reimputation methods over the SDR with inflation factors approaches; the RMS differences for the SDR with inflation factors production approach were consistently as small as or smaller than those of the reimputation.

Table 3: Root Mean Square Differences of SEs of Proportions Calculated by Four Alternatives with the SEs Estimated by Simulations

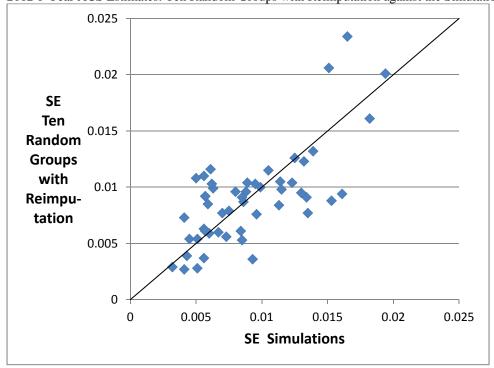
Estimated by Simulations								
Characteristic	Ten Random	Five Random	SDR with Inflation	SDR with Inflation				
	Groups with	Groups with	Factors - Research	Factors - Production				
	Reimputation	Reimputation	Approach	Approach				
Male	0.001174	0.001490	0.001267	0.001346				
Hispanic Origin	0.000453	0.000373	0.000265	0.000287				
Age 65 years and	0.000435	0.000753	0.000407	0.000352				
Over								
Age Under 18 years	0.000596	0.000658	0.000576	0.000623				
Age 18 to 34 years	0.000703	0.000930	0.000485	0.000506				

Source: 2012 American Community Survey 1-year Data and Simulated Data

In Figure 3 we plot the SEs of the estimates of proportion age 65 years or older for the 51 state equivalents for the ten random groups with reimputation against the simulations. From Table 4 we note that the correlation is 0.713. The points generally follow the indicating equal values (shown on the plot), suggesting the soundness of the method

of ten random groups with reimputation. As in the graph in Figure 1, in Figure 3, the larger states are found in the lower left hand part of the graph, while the smaller states are found in the upper right hand part.

Figure 3: Scatterplot of Standard Errors of Proportion Age 65 Years or Older in GQ Population for States for 2012 1-Year ACS Estimates: Ten Random Groups with Reimputation against the Simulations



Source: 2012 American Community Survey 1-year Data and Simulated Data

Table 4: Correlation between the Standards Errors for States of Ten Random Groups with Reimputation and Simulations (with GQ Imputation)

Characteristic	Correlation
Male	0.657
Hispanic Origin	0.820
Age: 65 Years or Older	0.713
Age: 18-34 Years	0.754
Age: 17 Years or Younger	0.336

Source: 2012 American Community Survey 1-year Data and Simulated Data

In Figure 4 we plot the same data as in Figure 3, again using a Bland-Altman plot (Bland and Altman, 1999). The Y-axis indicates the proportion difference between the SE obtained by the ten random groups with reimputation and the SE obtained by the of the simulations, divided by the SE of the simulations. The X-axis shows the SEs obtained by the simulations. The Bland-Altman plot better shows that most of the states, the SDR is lower than the simulations. It also highlights the outliers relative to the size of the SEs. In Figure 4, the District of Columbia stands out prominently as an outlier (0.005, 1.16).

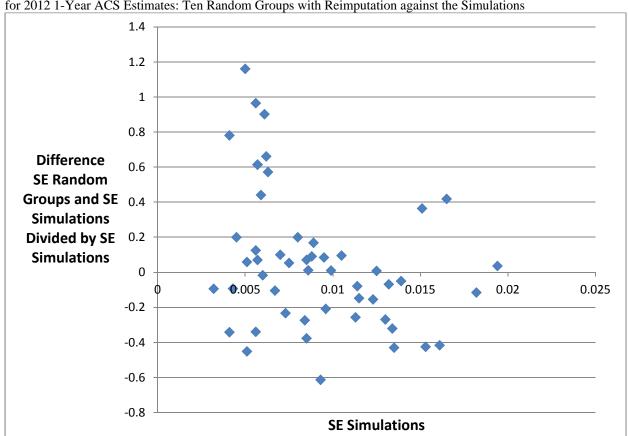


Figure 4: Bland-Altman Plot of Standard Errors of Proportion Age 65 Years or Older in GQ Population for States for 2012 1-Year ACS Estimates: Ten Random Groups with Reimputation against the Simulations

Source: 2012 American Community Survey 1-year Data and Simulated Data

In Tables 5 and 6 we see comparisons of SEs by the alternative methods for characteristics that were not on the Census 2000. Hence, we could not compare them to the Census 2000 simulations. Instead, we made three comparisons; the ten random groups and the five random groups were each compared to the SDR with inflation factors research approach; in addition, we compared the ten random groups to the SDR with inflation factors production approach. In Table 5 we see the random group estimates have larger estimates of SEs than the production research, as reflected by values greater than zero. This is consistent with the SDR with inflation factors underestimating the SEs. In Table 6 we see that the SEs for the ten random groups were consistently closer to the production research than the five random groups. While we did not have a benchmark for these characteristics, such as the simulations, it is evidence for the superiority of ten random groups over five. Again, we see no evidence that the SDR with inflation factors approaches performed poorly by individual characteristic.

Table 5: Mean Difference of Estimates of SEs over States - Three Comparisons

Characteristic	Ten Random Groups versus SDR	Five Random Groups versus SDR with	Ten Random Groups versus SDR with	
	with Inflation	Inflation Factors	Inflation Factors	
	Factors Research	Research Approach	Production Approach	
	Approach			
High School Degree or Better	-0.001209	-0.001526	-0.001482	
Married	0.002256	0.000719	0.002486	
Race: White Alone	0.002568	0.002624	0.002500	
Race: Black Alone	0.001680	0.001515	0.001652	
Race: Asian Alone	0.001944	0.001339	0.001982	
Speaks Another Language at Home and	-0.001042	-0.001331	-0.001099	
Speaks English Less than Very Well				
With a Disability	0.000435	-0.000870	0.000267	

Source: 2012 American Community Survey 1-year Data and Simulated Data

Table 6: Root Mean Squared Differences of Estimates of SEs over States - Three Comparisons

	Ten Random	Five Random Groups	Ten Random Groups	
Characteristic	Groups versus SDR	versus SDR with	versus SDR with	
	with Inflation	Inflation Factors	Inflation Factors	
	Factors Research	Research Approach	Production Approach	
	Approach			
High School Degree or Better	0.000758	0.000865	0.000806	
Married	0.000608	0.000478	0.000650	
Race: White Alone	0.000783	0.000769	0.000786	
Race: Black Alone	0.000563	0.000617	0.000563	
Race: Asian Alone	0.000410	0.000377	0.000411	
Speaks Another Language at Home and	0.000440	0.000516	0.000444	
Speaks English Less than Very Well				
With a Disability	0.000669	0.000795	0.000689	

Source: 2012 American Community Survey 1-year Data and Simulated Data

# 5.4 County-Level Analysis

Because the method of applying inflation factors to SDR was designed to be optimal at the state level, there was concern that they would perform worse for substate geographies. This might be particularly likely if the degree of imputation was uneven across substate geographies. To investigate this possibility we examined comparisons for subsets of larger counties, that is, those with 65,000 or greater population, for which ACS estimates are published annually. We present two separate analyses: one for counties with total GQ populations of 10,000 or more (there were 185 such counties), shown in Table 7; and one for counties with total GQ populations of 5,000 to 9,999 (there were 213 such counties), shown in Table 8. We also looked at counties with GQ populations of 2,000 to 4,999 and saw similar patterns, though for economy we did not include those results in this report (Beaghen, 2014).

Table 7: Counties with 10,000 or more GQ Population: Comparing SEs of Proportions by Two Alternative Methods to SEs of the Simulations

Characteristic	Mean Difference Ten Random Groups and Simulations	Mean Difference SDR with Inflation Factors Production Approach and Simulations	RMS Difference Ten Random Groups and Simulations	RMS Difference SDR with Inflation Factors Production Approach and Simulations	
Male	-0.023531	-0.021252	0.002528	0.002156	
Hispanic Origin	0.000446	-0.002508	0.000851	0.000648	
Age 65 years and Over	-0.001290	-0.000477	0.001118	0.000902	
Age Under 18 years	-0.005315	-0.004596	0.001011	0.000915	
Age 18 to 34 years	-0.008970	-0.011308	0.001468	0.001446	

Source: 2010 American Community Survey 1-year Data and Simulated Data

In both Table 7 and Table 8 we see the RMS differences in SEs between the random groups and simulations, and between the SDR with inflation factors and the simulations. These sets of differences are similar, though the SDR with inflation factor SEs are perhaps a bit closer to the simulation SEs than the random groups SEs are. On the other hand, we continue to see the tendency for the SDR with inflation factor SEs to be smaller than that exhibited by the simulations; the mean differences between the SDR with inflation factor SEs and those of the simulations are generally negative.

Table 8: Counties with 5,000 to 9,999 GQ Population: Comparing SEs of Proportions by Two Alternative Methods to the SEs of the Simulations

to the BES of the Billiantic					
Characteristic	Mean Difference	Mean Difference	RMS Difference	RMS Difference	
	Ten Random	SDR with Inflation	Ten Random	SDR with Inflation	
	Groups and	Factors Production	Groups and	Factors Production	
	Simulations	Approach and	Simulations	Approach and	
		Simulations		Simulations	
Male	-0.041298	-0.033397	0.003913	0.003532	
Hispanic Origin	-0.000677	-0.003169	0.001257	0.001068	
Age 65 years and Over	0.004058	0.003612	0.002292	0.001983	
Age Under 18 years	-0.003497	-0.002163	0.000925	0.000850	
Age 18 to 34 years	-0.014419	-0.019614	0.002265	0.002581	

Source: 2012 American Community Survey 1-year Data and Simulated Data

#### 6. Conclusions

Our most general conclusion was that while random groups with reimputation could be successfully implemented in the ACS and yielded plausible variance estimates, it was not shown to be superior to the current ACS methodology as applied to ACS data. More detailed conclusions follow.

- 1. The successive differences replication (SDR), used for the GQ estimates through data-year 2010 and currently in use for the household population, yielded estimates of SE that were comparable to those of the simulations. This supports the soundness of the SDR approach for the estimates of variances of GQ population without the GQ imputation.
- 2. The production approach, SDR with inflation factors, appeared to moderately underestimate the SEs of estimates, a result that was expected. That said, it yielded results at least as close to the simulations as the random groups with reimputation.
- 3. The SDR with inflation factors, the production approach, yielded SEs for state-level estimates similar too but slightly lower than that of the research approach. The maximum value of 1.4 for the inflation factor was responsible for this difference.
- 4. At the county level we did not see a degradation of reliability of the variance estimates of the SDR with inflation factors. It performed comparably to those of the reimputation with random groups when compared to the simulated results. This observation dispels concerns that, since the inflation factors were optimized at the state level, that they would not work well at the county level.

- 5. The random groups with reimputation method was successfully implemented and produced comparable results for estimating the variances of the GQ population in conjunction with the mass GQ imputation and a complex weighting methodology. While the theory of reimputation with random groups has been laid out and the method demonstrated in other scenarios, it was not clear how it would work with a weighting methodology as complex as that of the ACS. In addition to the controlling to state-level totals (by major GQ type), there are tract-level constraints that smooth the estimates. Random groups with reimputation revealed itself as robust to these weighting complexities and to a high degree of imputation.
- 6. Five random groups reimputation had noticeably more unreliability than did the ten groups, an expected result.
- 7. Importantly, this study did not estimate the sampling error of the estimated SEs themselves. Some sense of the sampling error can be gained by looking at the graphical comparison of the alternative methods against those of the simulations, since those of the simulations are more reliable. The graphical displays do not provide any reason to doubt the general conclusions made, though a more rigorous examination of the sampling errors would be valuable.
- 8. There is no evidence that the production approach to variance estimation with GQ imputation, SDR with inflation factors, needs to be revised immediately.

## 7. Future Research

The results of this work point to some worthwhile additional investigation.

- 1. Test the production methodology with higher values of the inflation factors. A straightforward alternative would be to increase each inflation factor by 0.1, up to the limit of 1.4. We might expect SEs slightly closer to those of the simulations.
- 2. Obtain the simulation results for the major race groups white and black, and include these in the comparisons. (The documentation of the race coding of the Census 2000-based simulations was not available in time for this report).
- 3. Attempt the random groups with reimputation with 20 groups to achieve more reliable estimates. Creating 20 groups would require violating one of the rules for that construction of random groups; namely, that each sampled person appear in only one group. In particular, persons in GQ facilities which were sampled once but were eligible to be sampled twice would have to be assigned to two random groups. For example, if the sampling rate for the state were 1/40, persons in GQ facilities with expected populations of 401 to 799 would have to be assigned to two groups, even if just one GQ was actually selected in sample. Including some GQ persons in two random groups would lead to an underestimate of the variance. First, two groups with the same persons would not differ to fully reflect the sampling variation; and second, the effective sample size would appear larger than it is. However, if the number of such GQ facilities is not too large these may be tolerable limitations, and we may obtain more reliable estimates of SE via the random groups with reimputation.
- 4. In addition to forming random groups that maintain the sequential ordering of the sample selection, we could form random groups where group membership is selected at random. We could repeatedly sample in this manner to form multiple sets of random groups. With these simulated random groups we could create a distribution of variance estimates to evaluate their sampling error or reliability.
- 5. A second way to assess the sampling error of the estimates of the SEs would be to exploit the regression error between the alternative variances estimators and the simulations. If we assumed the SEs as estimated by the simulations were truth, then the regression error would yield an estimate of the sampling error of the SEs. This approach would be limited by the fact that the SEs as determined by the simulations themselves have sampling error. Thus it would be only a crude approach, but it may be sufficient to better understand the limitations of the variance estimation methods.

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	Standa				ion for Alternativ		
State	Simulations	SDR with	SDR with	Ten Random	Five Random	Simulations	SDR No GQ
	with GQ	Inflation	Inflation	Groups with	Groups with	No GQ	Imputation
	Imputation	Factors	Factors	Reimputation	Reimputation	Imputation	
		Research	Production				
AL	0.0195	0.0124	0.0123	0.0065	0.0083	0.0255	0.0256
AK	0.0216	0.0209	0.0191	0.0127	0.0166	0.0298	0.0298
AZ	0.0188	0.0108	0.0101	0.0112	0.0204	0.0243	0.0193
AR	0.0204	0.0138	0.0137	0.0167	0.0163	0.0427	0.0391
CA	0.0070	0.0045	0.0040	0.0064	0.0041	0.0098	0.0088
СО	0.0153	0.0109	0.0102	0.0146	0.0200	0.0217	0.0287
CT	0.0176	0.0107	0.0099	0.0191	0.0098	0.0205	0.0135
DE	0.0240	0.0232	0.0204	0.0264	0.0156	0.0315	0.0304
DC	0.0251	0.0215	0.0225	0.0204	0.0346	0.0359	0.0349
FL	0.0061	0.0057	0.0053	0.0085	0.0031	0.0138	0.0113
GA	0.0102	0.0077	0.0072	0.0166	0.0145	0.0159	0.0166
HI	0.0222	0.0210	0.0201	0.0197	0.0218	0.0277	0.0274
ID	0.0278	0.0246	0.0251	0.0239	0.0254	0.0447	0.0417
IL	0.0118	0.0071	0.0068	0.0093	0.0144	0.0167	0.0122
IN	0.0159	0.0097	0.0095	0.0123	0.0145	0.0205	0.0175
IA	0.0186	0.0128	0.0115	0.0110	0.0077	0.0237	0.0225
KS	0.0190	0.0128	0.0113	0.0131	0.0086	0.0288	0.0262
KY	0.0189	0.0104	0.0097	0.0160	0.0165	0.0257	0.0255
LA	0.0130	0.0115	0.0113	0.0129	0.0086	0.0177	0.0369
ME	0.0322	0.0206	0.0197	0.0366	0.0326	0.0444	0.0301
MD	0.0117	0.0103	0.0091	0.0161	0.0042	0.0223	0.0184
MA	0.0143	0.0082	0.0076	0.0181	0.0143	0.0188	0.0130
MI	0.0126	0.0078	0.0071	0.0125	0.0086	0.0149	0.0114
MN	0.0204	0.0129	0.0126	0.0196	0.0179	0.0233	0.0175
MS	0.0197	0.0134	0.0132	0.0151	0.0125	0.0271	0.0291
MO	0.0127	0.0105	0.0100	0.0172	0.0167	0.0206	0.0153
MT	0.0223	0.0234	0.0227	0.0181	0.0291	0.0325	0.0620
NE	0.0398	0.0173	0.0156	0.0234	0.0157	0.0493	0.0302
NV	0.0139	0.0201	0.0204	0.0210	0.0209	0.0244	0.0562
NH	0.0234	0.0218	0.0183	0.0307	0.0122	0.0339	0.0392
NJ	0.0122	0.0077	0.0072	0.0057	0.0112	0.0167	0.0118
NM	0.0261 0.0073	0.0263	0.0254	0.0182	0.0252	0.0338	0.0285
NY NC	0.0073	0.0052 0.0070	0.0047 0.0066	0.0061 0.0103	0.0075 0.0078	0.0103 0.0121	0.0078 0.0139
ND	0.0120	0.0070	0.0034	0.0103	0.0078	0.0623	0.0139
OH	0.0083	0.0243	0.0234	0.0130	0.0088	0.0023	0.0298
OK OR	0.0178 0.0204	0.0123 0.0137	0.0122 0.0124	0.0155 0.0163	0.0171 0.0233	0.0214	0.0254
PA	0.0092	0.0157	0.0124	0.0038	0.0233	0.0302	0.0239
RI	0.0092	0.0038	0.0051	0.0384	0.0402	0.0142	0.0098
SC	0.0316	0.0197	0.0177	0.0093	0.0402	0.0463	0.0303
SD	0.0218	0.0109	0.0112	0.0286	0.0042	0.0269	0.0208
TN	0.0298	0.0211	0.0193	0.0286	0.0034	0.0236	0.0278
TX	0.0190	0.0053	0.0052	0.0037	0.0034	0.0236	0.0224
UT	0.0528	0.0033	0.0032	0.0037	0.0190	0.0595	0.0094
VT	0.0328	0.0232	0.0210	0.0277	0.0233	0.0393	0.0260
VA	0.0098	0.0232	0.0210	0.0178	0.0233	0.0399	0.0200
WA	0.0038	0.0099	0.0078	0.0120	0.0088	0.0214	0.0195
WV	0.0171	0.0194	0.0190	0.0264	0.0088	0.0214	0.0193
WI	0.0163	0.0194	0.0190	0.0204	0.0179	0.0418	0.0160
WY	0.0310	0.0102	0.0033	0.0363	0.0210	0.0303	0.0287
	2010 and 2012 A	<b>!</b>				0.0505	0.0207

With GO   Imputation   Factors   Factors   Factors   Production   Reimputation   Imputation   Imputation   Research   Production   Reimputation   Imputation   Imputation		Standard	d Errors of the Pro	portion Hispanic	in the GQ Popul	ation for Alternat		
Imputation   Factors   Factors   Reimputation   Reimputation   Imputation   Research   Production   Reimputation   Imputation   Reimputation   Imputation   Reimputation   Imputation   Reimputation   Reimputation	State	Simulations	SDR with	SDR with	Ten Random	Five Random	Simulations	SDR No GQ
Research   Production   0.0190   0.0104   0.0203   0.0348		with GQ	Inflation	Inflation	Groups with	Groups with	No GQ	Imputation
AK         0.0119         0.0162         0.0135         0.0190         0.01041         0.0203         0.0348           AZ         0.0059         0.0053         0.0048         0.0135         0.0053         0.0084         0.0135           CA         0.0056         0.0088         0.0035         0.0068         0.0053         0.0064         0.0155           CO         0.0089         0.0094         0.0085         0.0083         0.0117         0.0153         0.0147           CT         0.0048         0.0070         0.0068         0.0087         0.0061         0.0074           CT         0.0048         0.0070         0.0068         0.0087         0.0061         0.0073           DC         0.0100         0.0077         0.0071         0.0168         0.0087         0.0061         0.0073           DC         0.0100         0.0077         0.0071         0.0082         0.0094         0.018           GA         0.0039         0.038         0.0033         0.0067         0.0026         0.0061         0.0047           HI         0.0115         0.0151         0.0119         0.0233         0.0148         0.0020         0.0233           IL         0.0037		Imputation			Reimputation	Reimputation	Imputation	
AZ								
AR         0.0059         0.0053         0.0048         0.0050         0.0057         0.0051         0.0066         0.0058         0.0087         0.0066         0.0053         0.0067         0.0061         0.0073         0.0061         0.0073         0.0061         0.0073         0.0061         0.0073         0.0061         0.0073         0.0061         0.0073         0.0061         0.0073         0.0018         0.0071         0.0082         0.0094         0.0104         0.0044         0.0043         0.0038         0.0071         0.0082         0.0094         0.0104         0.0041         0.0042         0.0038         0.0031         0.0064         0.0145         0.0135         ID         0.0163         0.0186         0.0171         0.0233         0.0148         0.0202         0.0239         0.0041         0.0042         0.0035         0.014         0.0052         0.0043         0.0044         0.0044								
CA         0.0056         0.0038         0.0035         0.0068         0.0050         0.0060         0.0067           CO         0.0089         0.0094         0.0083         0.0117         0.0153         0.0147           CT         0.0048         0.0070         0.0063         0.0066         0.0069         0.0087         0.0004           DE         0.0101         0.0077         0.0071         0.0116         0.0099         0.0095         0.018           DC         0.0100         0.0077         0.0071         0.0116         0.0099         0.0095         0.018           GA         0.0033         0.0038         0.0033         0.0067         0.0022         0.0094         0.0104           GA         0.0039         0.0038         0.0033         0.0067         0.0022         0.0091         0.0145         0.0136           HI         0.0115         0.0151         0.0119         0.0088         0.0064         0.0145         0.0136           IL         0.0063         0.0081         0.0077         0.0060         0.0077         0.0060         0.0071           IL         0.0037         0.0014         0.0043         0.0044         0.0044         0.0044 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>								
CO         0.0089         0.0094         0.0085         0.0083         0.0117         0.0153         0.0147           CT         0.0048         0.0070         0.0063         0.0066         0.0069         0.0087         0.0091           DE         0.0104         0.0108         0.0099         0.0058         0.0087         0.0061         0.0078           DC         0.0100         0.0077         0.0071         0.0116         0.0099         0.0095         0.0118           GA         0.0038         0.0038         0.0071         0.0082         0.0094         0.0104           GA         0.0039         0.0038         0.0033         0.0067         0.0026         0.0061         0.0044           HI         0.0115         0.0151         0.0119         0.0088         0.0064         0.0145         0.0136           ID         0.0163         0.0186         0.0171         0.0233         0.0148         0.0022         0.0239           IL         0.0037         0.0041         0.0037         0.0040         0.0047         0.0060         0.0041         0.0043         0.0048           IA         0.0047         0.0038         0.0037         0.0112         0.0108								
CT         0.0048         0.0070         0.0063         0.0066         0.0067         0.0081           DE         0.0074         0.0108         0.0090         0.0058         0.0087         0.0061         0.0079           DC         0.0100         0.0077         0.0071         0.0116         0.0099         0.0095         0.018           FL         0.0063         0.0042         0.0038         0.0037         0.0061         0.0041           GA         0.0039         0.0038         0.0033         0.0067         0.0026         0.0061         0.0041           HI         0.0115         0.0151         0.0119         0.0088         0.0064         0.0145         0.0136           ID         0.0163         0.0151         0.0111         0.0233         0.0148         0.0222         0.0231           IL         0.00137         0.0041         0.0037         0.0044         0.0077         0.0060         0.0071           IN         0.0042         0.0038         0.0034         0.0050         0.0040         0.0041         0.0026         0.0063         0.0038           KS         0.0068         0.0067         0.0057         0.0112         0.0108         0.0074								
DE								
DC								
FL								
GA         0.0039         0.0038         0.0033         0.0067         0.0026         0.0061         0.0014           HI         0.0115         0.0151         0.0119         0.0088         0.0064         0.0145         0.0136           ID         0.0163         0.0186         0.0171         0.0233         0.0148         0.0202         0.0238           IL         0.0037         0.0041         0.0037         0.0054         0.0077         0.0060         0.0071           IN         0.0042         0.0038         0.0034         0.0050         0.0040         0.0041         0.0026         0.0063         0.0088           IA         0.0047         0.0049         0.0040         0.0041         0.0026         0.0063         0.0088           KS         0.0068         0.0067         0.0032         0.0011         0.0108         0.0074         0.0075           KY         0.0039         0.0048         0.0041         0.0073         0.0013         0.0101         0.0013           LA         0.0039         0.0048         0.0041         0.0074         0.0013         0.011         0.001         0.001         0.001         0.001         0.001         0.001         0.001								
HI								
ID								
IL								
IN								
IA								
KS         0.0068         0.0067         0.0057         0.0112         0.0108         0.0074         0.0075           KY         0.0052         0.0038         0.0032         0.0051         0.0048         0.0041         0.0281           LA         0.0039         0.0048         0.0044         0.0074         0.0013         0.0100         0.0332           ME         0.0082         0.0099         0.0086         0.0094         0.0112         0.0079         0.0118           MD         0.0064         0.0047         0.0043         0.0078         0.0060         0.0061         0.0061           MI         0.0049         0.0036         0.0034         0.0044         0.0058         0.0067         0.0041           MI         0.0049         0.0036         0.0031         0.0065         0.0045         0.0067         0.0041           MI         0.0049         0.0036         0.0031         0.0065         0.0045         0.0067         0.0041           MS         0.0062         0.0036         0.0031         0.0065         0.0045         0.0067         0.0043           MS         0.0042         0.0049         0.0043         0.0051         0.0046         0.0043 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
KY         0.0052         0.0038         0.0032         0.0051         0.0048         0.0041         0.0281           LA         0.0039         0.0048         0.0044         0.0074         0.0013         0.0100         0.0332           ME         0.0082         0.0099         0.0086         0.0094         0.0112         0.0079         0.0118           MD         0.0064         0.0047         0.0043         0.0078         0.0083         0.0074         0.0050           MA         0.0067         0.0046         0.0040         0.0087         0.0060         0.0061         0.0061           MI         0.0049         0.0036         0.0034         0.0044         0.0058         0.0067         0.0041           MN         0.0062         0.0036         0.0031         0.0065         0.0045         0.0067         0.0041           MS         0.0042         0.0049         0.0045         0.0051         0.0046         0.0043         0.0072           MO         0.0041         0.0039         0.0032         0.0041         0.0033         0.0057         0.0711           NE         0.0105         0.0083         0.0069         0.0076         0.0073         0.0139								
LA								
ME         0.0082         0.0099         0.0086         0.0094         0.0112         0.0079         0.0118           MD         0.0064         0.0047         0.0043         0.0078         0.0083         0.0074         0.0050           MA         0.0067         0.0046         0.0040         0.0087         0.0060         0.0061         0.0061           MI         0.0049         0.0036         0.0034         0.0044         0.0058         0.0067         0.0041           MN         0.0062         0.0036         0.0031         0.0065         0.0045         0.0045         0.0045         0.0045         0.0046         0.0043         0.0072           MS         0.0042         0.0049         0.0045         0.0051         0.0046         0.0043         0.0072           MO         0.0041         0.0039         0.0032         0.0041         0.0033         0.0051         0.0046         0.0043         0.0072           MC         0.0105         0.0083         0.00991         0.0111         0.0039         0.0067         0.0711           NE         0.0169         0.0147         0.0141         0.0142         0.0177         0.0226         0.0142           NH								
MD         0.0064         0.0047         0.0043         0.0078         0.0083         0.0074         0.0050           MA         0.0067         0.0046         0.0040         0.0087         0.0060         0.0061         0.0061           MI         0.0049         0.0036         0.0031         0.0065         0.0045         0.0067         0.0127           MN         0.0062         0.0036         0.0031         0.0065         0.0045         0.0045         0.0046         0.0043         0.0072           MO         0.0041         0.0039         0.0032         0.0011         0.0036         0.0033         0.0051         0.0046         0.0043         0.0072           MO         0.0041         0.0039         0.0032         0.0011         0.0039         0.0067         0.071           NE         0.0105         0.0083         0.0069         0.0076         0.0073         0.0139         0.0140           NV         0.0169         0.0147         0.0141         0.0142         0.0177         0.0226         0.0142           NH         0.0089         0.0074         0.0063         0.0061         0.0036         0.0095         0.0132           NJ         0.0082         <								
MA         0.0067         0.0046         0.0040         0.0087         0.0060         0.0061         0.0061           MI         0.0049         0.0036         0.0034         0.0044         0.0058         0.0067         0.0127           MN         0.0062         0.0036         0.0031         0.0065         0.0045         0.0067         0.0041           MS         0.0042         0.0049         0.0045         0.0051         0.0046         0.0043         0.0072           MO         0.0041         0.0039         0.0032         0.0041         0.0033         0.0051         0.0043           MT         0.0066         0.0104         0.0091         0.0111         0.0039         0.0067         0.0711           NE         0.0105         0.0083         0.0069         0.0076         0.0073         0.0139         0.0140           NV         0.0169         0.0147         0.0141         0.0142         0.0177         0.0226         0.0142           NH         0.0089         0.0074         0.0063         0.0061         0.0036         0.0095         0.0132           NJ         0.0082         0.0053         0.0047         0.0092         0.045         0.0098         <								
MI         0.0049         0.0036         0.0034         0.0044         0.0058         0.0067         0.0127           MN         0.0062         0.0036         0.0031         0.0065         0.0045         0.0067         0.0041           MS         0.0042         0.0049         0.0045         0.0051         0.0046         0.0043         0.0072           MO         0.0041         0.0039         0.0032         0.0041         0.0033         0.0051         0.0063           MT         0.0066         0.0104         0.0091         0.0111         0.0039         0.0067         0.0711           NE         0.0105         0.0083         0.0069         0.0076         0.0073         0.0139         0.0140           NV         0.0169         0.0147         0.0141         0.0142         0.0177         0.0226         0.0142           NH         0.0089         0.0074         0.0063         0.0061         0.0036         0.0095         0.0132           NI         0.0082         0.0053         0.0047         0.0092         0.045         0.0098         0.0077           NM         0.0248         0.0210         0.0193         0.0272         0.0232         0.0410         <								
MN         0.0062         0.0036         0.0031         0.0065         0.0045         0.0067         0.0041           MS         0.0042         0.0049         0.0045         0.0051         0.0046         0.0043         0.0072           MO         0.0041         0.0039         0.0032         0.0041         0.0033         0.0051         0.0043           MT         0.0066         0.0104         0.0091         0.0111         0.0039         0.0067         0.0711           NE         0.0105         0.0083         0.0069         0.0076         0.0073         0.0139         0.0140           NV         0.0169         0.0147         0.0141         0.0142         0.0177         0.0226         0.0142           NH         0.0089         0.0074         0.0063         0.0061         0.0036         0.0095         0.0132           NI         0.0082         0.0053         0.0047         0.0092         0.0045         0.0098         0.0077           NM         0.0248         0.0210         0.0133         0.0272         0.0232         0.0410         0.0299           NY         0.0039         0.0037         0.0033         0.0059         0.0040         0.066         <								
MS         0.0042         0.0049         0.0045         0.0051         0.0046         0.0043         0.0072           MO         0.0041         0.0039         0.0032         0.0041         0.0033         0.0051         0.0043           MT         0.0066         0.0104         0.0091         0.0111         0.0039         0.0067         0.0711           NE         0.0105         0.0083         0.0069         0.0076         0.0073         0.0139         0.0140           NV         0.0169         0.0147         0.0141         0.0142         0.0177         0.0226         0.0142           NH         0.0089         0.0074         0.0063         0.0061         0.0036         0.0095         0.0132           NJ         0.0082         0.0053         0.0047         0.0092         0.0045         0.0098         0.0077           NM         0.0248         0.0210         0.0133         0.0052         0.0322         0.0410         0.0688         0.0052           NC         0.0052         0.0033         0.0029         0.0079         0.0066         0.0091         0.0038           ND         0.0081         0.0074         0.0059         0.0057         0.0060								
MO         0.0041         0.0039         0.0032         0.0041         0.0033         0.0051         0.0043           MT         0.0066         0.0104         0.0091         0.0111         0.0039         0.0067         0.0711           NE         0.0105         0.0083         0.0069         0.0076         0.0073         0.0139         0.0140           NV         0.0169         0.0147         0.0141         0.0142         0.0177         0.0226         0.0142           NH         0.0089         0.0074         0.0063         0.0061         0.0036         0.0095         0.0132           NJ         0.0082         0.0053         0.0047         0.0092         0.0045         0.0098         0.0077           NM         0.0248         0.0210         0.0193         0.0272         0.0232         0.0410         0.0299           NY         0.0039         0.0037         0.0033         0.0059         0.0040         0.0668         0.0052           NC         0.0052         0.0033         0.0029         0.0057         0.0060         0.0064         0.0064           OH         0.0027         0.0029         0.0027         0.0045         0.0036         0.0028								
MT         0.0066         0.0104         0.0091         0.0111         0.0039         0.0067         0.0711           NE         0.0105         0.0083         0.0069         0.0076         0.0073         0.0139         0.0140           NV         0.0169         0.0147         0.0141         0.0142         0.0177         0.0226         0.0142           NH         0.0089         0.0074         0.0063         0.0061         0.0036         0.0095         0.0132           NI         0.0082         0.0053         0.0047         0.0092         0.0045         0.0098         0.0077           NM         0.0248         0.0210         0.0193         0.0272         0.0232         0.0410         0.0299           NY         0.0039         0.0037         0.0033         0.0059         0.0040         0.0068         0.0052           NC         0.0052         0.0033         0.0029         0.0079         0.0066         0.0091         0.0039           ND         0.0081         0.0074         0.0059         0.0057         0.0060         0.0064         0.0064           OH         0.0027         0.0029         0.0075         0.0045         0.0065         0.0044 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
NE								
NV         0.0169         0.0147         0.0141         0.0142         0.0177         0.0226         0.0142           NH         0.0089         0.0074         0.0063         0.0061         0.0036         0.0095         0.0132           NJ         0.0082         0.0053         0.0047         0.0092         0.0045         0.0098         0.0077           NM         0.0248         0.0210         0.0193         0.0272         0.0232         0.0410         0.0299           NY         0.0039         0.0037         0.0033         0.0059         0.0040         0.0068         0.0052           NC         0.0052         0.0033         0.0029         0.0079         0.0066         0.0091         0.0039           ND         0.0081         0.0074         0.0059         0.0057         0.0060         0.0064         0.064           OH         0.0027         0.0029         0.0027         0.0045         0.0036         0.0028         0.0244           OK         0.0062         0.0066         0.0057         0.0110         0.0125         0.0069         0.065           OR         0.0107         0.0092         0.0078         0.0105         0.0041         0.0147 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>								
NH         0.0089         0.0074         0.0063         0.0061         0.0036         0.0095         0.0132           NJ         0.0082         0.0053         0.0047         0.0092         0.0045         0.0098         0.0077           NM         0.0248         0.0210         0.0193         0.0272         0.0232         0.0410         0.0299           NY         0.0039         0.0037         0.0033         0.0059         0.0040         0.068         0.0052           NC         0.0052         0.0033         0.0029         0.0079         0.0066         0.0091         0.0039           ND         0.0081         0.0074         0.0059         0.0057         0.0060         0.064         0.0064           OH         0.0027         0.0029         0.0027         0.0045         0.0036         0.0028         0.0244           OK         0.0062         0.0066         0.0057         0.0110         0.0125         0.0069         0.0652           OR         0.0107         0.0092         0.0078         0.0105         0.0041         0.0147         0.0114           PA         0.0031         0.0032         0.0028         0.0044         0.0045         0.0037 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>								
NJ         0.0082         0.0053         0.0047         0.0092         0.0045         0.0098         0.0077           NM         0.0248         0.0210         0.0193         0.0272         0.0232         0.0410         0.0299           NY         0.0039         0.0037         0.0033         0.0059         0.0040         0.068         0.0052           NC         0.0052         0.0033         0.0029         0.0079         0.0066         0.0091         0.0039           ND         0.0081         0.0074         0.0059         0.0057         0.0060         0.0064         0.0064           OH         0.0027         0.0029         0.0027         0.0045         0.0036         0.0028         0.024           OK         0.0062         0.0066         0.0057         0.0110         0.0125         0.0069         0.065           OR         0.0107         0.0092         0.0078         0.0105         0.0041         0.0147         0.0114           PA         0.0031         0.0032         0.0028         0.0044         0.0045         0.0037         0.0154           SC         0.0042         0.0050         0.0044         0.0091         0.0038         0.0048 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>								
NM         0.0248         0.0210         0.0193         0.0272         0.0232         0.0410         0.0299           NY         0.0039         0.0037         0.0033         0.0059         0.0040         0.0068         0.0052           NC         0.0052         0.0033         0.0029         0.0079         0.0066         0.0091         0.0039           ND         0.0081         0.0074         0.0059         0.0057         0.0060         0.0064         0.0064           OH         0.0027         0.0029         0.0027         0.0045         0.0036         0.0028         0.0244           OK         0.0062         0.0066         0.0057         0.0110         0.0125         0.0069         0.0065           OR         0.0107         0.0092         0.0078         0.0105         0.0041         0.0147         0.0114           PA         0.0031         0.0032         0.0028         0.0044         0.0045         0.0037         0.0054           RI         0.0115         0.0086         0.0077         0.0169         0.0143         0.0129         0.0174           SC         0.0042         0.0050         0.0044         0.0091         0.0038         0.0048								
NY         0.0039         0.0037         0.0033         0.0059         0.0040         0.0068         0.0052           NC         0.0052         0.0033         0.0029         0.0079         0.0066         0.0091         0.0039           ND         0.0081         0.0074         0.0059         0.0057         0.0060         0.0064         0.0064           OH         0.0027         0.0029         0.0027         0.0045         0.0036         0.0028         0.0244           OK         0.0062         0.0066         0.0057         0.0110         0.0125         0.0069         0.0065           OR         0.0107         0.0092         0.0078         0.0105         0.0041         0.0147         0.0114           PA         0.0031         0.0032         0.0028         0.0044         0.0045         0.0037         0.0054           RI         0.0115         0.0086         0.0077         0.0169         0.0143         0.0129         0.0174           SC         0.0042         0.0050         0.0044         0.0091         0.0038         0.0048         0.0068           SD         0.0067         0.0078         0.0070         0.0103         0.0119         0.0066								
NC         0.0052         0.0033         0.0029         0.0079         0.0066         0.0091         0.0039           ND         0.0081         0.0074         0.0059         0.0057         0.0060         0.0064         0.0064           OH         0.0027         0.0029         0.0027         0.0045         0.0036         0.0028         0.0244           OK         0.0062         0.0066         0.0057         0.0110         0.0125         0.0069         0.0065           OR         0.0107         0.0092         0.0078         0.0105         0.0041         0.0147         0.0114           PA         0.0031         0.0032         0.0028         0.0044         0.0045         0.0037         0.0054           RI         0.0115         0.0086         0.0077         0.0169         0.0143         0.0129         0.0174           SC         0.0042         0.0050         0.0044         0.0091         0.0038         0.0048         0.0068           SD         0.0067         0.0078         0.0070         0.0103         0.0119         0.0066         0.0069           TX         0.0031         0.0039         0.0036         0.0044         0.0041         0.0049								
ND         0.0081         0.0074         0.0059         0.0057         0.0060         0.0064         0.0064           OH         0.0027         0.0029         0.0027         0.0045         0.0036         0.0028         0.0244           OK         0.0062         0.0066         0.0057         0.0110         0.0125         0.0069         0.0065           OR         0.0107         0.0092         0.0078         0.0105         0.0041         0.0147         0.0114           PA         0.0031         0.0032         0.0028         0.0044         0.0045         0.0037         0.0054           RI         0.0115         0.0086         0.0077         0.0169         0.0143         0.0129         0.0174           SC         0.0042         0.0050         0.0044         0.0091         0.0038         0.0048         0.0068           SD         0.0067         0.0078         0.0070         0.0103         0.0119         0.0066         0.0069           TN         0.0031         0.0039         0.0036         0.0044         0.0041         0.0049         0.0040           TX         0.0053         0.0049         0.0046         0.0063         0.0088         0.0097								
OH         0.0027         0.0029         0.0027         0.0045         0.0036         0.0028         0.0244           OK         0.0062         0.0066         0.0057         0.0110         0.0125         0.0069         0.0065           OR         0.0107         0.0092         0.0078         0.0105         0.0041         0.0147         0.0114           PA         0.0031         0.0032         0.0028         0.0044         0.0045         0.0037         0.0054           RI         0.0115         0.0086         0.0077         0.0169         0.0143         0.0129         0.0174           SC         0.0042         0.0050         0.0044         0.0091         0.0038         0.0048         0.0068           SD         0.0067         0.0078         0.0070         0.0103         0.0119         0.0066         0.0069           TN         0.0031         0.0039         0.0036         0.0044         0.0041         0.0049         0.0040           TX         0.0053         0.0049         0.0046         0.0063         0.0088         0.0097         0.0073           VT         0.0156         0.0120         0.0110         0.0082         0.0149         0.0184								
OK         0.0062         0.0066         0.0057         0.0110         0.0125         0.0069         0.0065           OR         0.0107         0.0092         0.0078         0.0105         0.0041         0.0147         0.0114           PA         0.0031         0.0032         0.0028         0.0044         0.0045         0.0037         0.0054           RI         0.0115         0.0086         0.0077         0.0169         0.0143         0.0129         0.0174           SC         0.0042         0.0050         0.0044         0.0091         0.0038         0.0048         0.0068           SD         0.0067         0.0078         0.0070         0.0103         0.0119         0.0066         0.0069           TN         0.0031         0.0039         0.0036         0.0044         0.0041         0.0049         0.0040           TX         0.0053         0.0049         0.0046         0.0063         0.0088         0.0097         0.0073           UT         0.0156         0.0120         0.0110         0.0082         0.0149         0.0184         0.0183           VA         0.0038         0.0038         0.0031         0.0061         0.0085         0.0055								
OR         0.0107         0.0092         0.0078         0.0105         0.0041         0.0147         0.0114           PA         0.0031         0.0032         0.0028         0.0044         0.0045         0.0037         0.0054           RI         0.0115         0.0086         0.0077         0.0169         0.0143         0.0129         0.0174           SC         0.0042         0.0050         0.0044         0.0091         0.0038         0.0048         0.0068           SD         0.0067         0.0078         0.0070         0.0103         0.0119         0.0066         0.0069           TN         0.0031         0.0039         0.0036         0.0044         0.0041         0.0049         0.0040           TX         0.0053         0.0049         0.0046         0.0063         0.0088         0.0097         0.0073           UT         0.0156         0.0120         0.0110         0.0082         0.0149         0.0184         0.0133           VT         0.0077         0.0103         0.0092         0.0149         0.0087         0.0081         0.0187           VA         0.0038         0.0038         0.0031         0.0061         0.0085         0.0055								
PA         0.0031         0.0032         0.0028         0.0044         0.0045         0.0037         0.0054           RI         0.0115         0.0086         0.0077         0.0169         0.0143         0.0129         0.0174           SC         0.0042         0.0050         0.0044         0.0091         0.0038         0.0048         0.0068           SD         0.0067         0.0078         0.0070         0.0103         0.0119         0.0066         0.0069           TN         0.0031         0.0039         0.0036         0.0044         0.0041         0.0049         0.0040           TX         0.0053         0.0049         0.0046         0.0063         0.0088         0.0097         0.0073           UT         0.0156         0.0120         0.0110         0.0082         0.0149         0.0184         0.0133           VT         0.0077         0.0103         0.0092         0.0149         0.0087         0.0081         0.0187           VA         0.0038         0.0038         0.0031         0.0061         0.0085         0.0055         0.0052           WA         0.0068         0.0066         0.0057         0.0065         0.0074         0.0069								0.0114
RI         0.0115         0.0086         0.0077         0.0169         0.0143         0.0129         0.0174           SC         0.0042         0.0050         0.0044         0.0091         0.0038         0.0048         0.0068           SD         0.0067         0.0078         0.0070         0.0103         0.0119         0.0066         0.0069           TN         0.0031         0.0039         0.0036         0.0044         0.0041         0.0049         0.0040           TX         0.0053         0.0049         0.0046         0.0063         0.0088         0.0097         0.0073           UT         0.0156         0.0120         0.0110         0.0082         0.0149         0.0184         0.0133           VT         0.0077         0.0103         0.0092         0.0149         0.0087         0.0081         0.0187           VA         0.0038         0.0038         0.0031         0.0061         0.0085         0.0055         0.0052           WA         0.0068         0.0066         0.0057         0.0065         0.0074         0.0093         0.0069           WI         0.0044         0.0044         0.0037         0.0074         0.0041         0.0050								0.0054
SC         0.0042         0.0050         0.0044         0.0091         0.0038         0.0048         0.0068           SD         0.0067         0.0078         0.0070         0.0103         0.0119         0.0066         0.0069           TN         0.0031         0.0039         0.0036         0.0044         0.0041         0.0049         0.0040           TX         0.0053         0.0049         0.0046         0.0063         0.0088         0.0097         0.0073           UT         0.0156         0.0120         0.0110         0.0082         0.0149         0.0184         0.0133           VT         0.0077         0.0103         0.0092         0.0149         0.0087         0.0081         0.0187           VA         0.0038         0.0038         0.0031         0.0061         0.0085         0.0055         0.0052           WA         0.0068         0.0066         0.0057         0.0065         0.0074         0.0093         0.0090           WI         0.0044         0.0044         0.0037         0.0074         0.0041         0.0050         0.0052								0.0174
SD         0.0067         0.0078         0.0070         0.0103         0.0119         0.0066         0.0069           TN         0.0031         0.0039         0.0036         0.0044         0.0041         0.0049         0.0040           TX         0.0053         0.0049         0.0046         0.0063         0.0088         0.0097         0.0073           UT         0.0156         0.0120         0.0110         0.0082         0.0149         0.0184         0.0133           VT         0.0077         0.0103         0.0092         0.0149         0.0087         0.0081         0.0187           VA         0.0038         0.0038         0.0031         0.0061         0.0085         0.0055         0.0052           WA         0.0068         0.0066         0.0057         0.0065         0.0074         0.0093         0.0090           WI         0.0044         0.0044         0.0037         0.0074         0.0041         0.0050         0.0052					0.0091			0.0068
TX         0.0053         0.0049         0.0046         0.0063         0.0088         0.0097         0.0073           UT         0.0156         0.0120         0.0110         0.0082         0.0149         0.0184         0.0133           VT         0.0077         0.0103         0.0092         0.0149         0.0087         0.0081         0.0187           VA         0.0038         0.0038         0.0031         0.0061         0.0085         0.0055         0.0052           WA         0.0068         0.0066         0.0057         0.0065         0.0074         0.0093         0.0120           WV         0.0070         0.0093         0.0089         0.0089         0.0031         0.0069         0.0090           WI         0.0044         0.0044         0.0037         0.0074         0.0041         0.0050         0.0052			0.0078	0.0070	0.0103	0.0119	0.0066	0.0069
TX         0.0053         0.0049         0.0046         0.0063         0.0088         0.0097         0.0073           UT         0.0156         0.0120         0.0110         0.0082         0.0149         0.0184         0.0133           VT         0.0077         0.0103         0.0092         0.0149         0.0087         0.0081         0.0187           VA         0.0038         0.0038         0.0031         0.0061         0.0085         0.0055         0.0052           WA         0.0068         0.0066         0.0057         0.0065         0.0074         0.0093         0.0120           WV         0.0070         0.0093         0.0089         0.0089         0.0031         0.0069         0.0090           WI         0.0044         0.0044         0.0037         0.0074         0.0041         0.0050         0.0052	TN	0.0031	0.0039	0.0036	0.0044	0.0041	0.0049	0.0040
VT         0.0077         0.0103         0.0092         0.0149         0.0087         0.0081         0.0187           VA         0.0038         0.0038         0.0031         0.0061         0.0085         0.0055         0.0052           WA         0.0068         0.0066         0.0057         0.0065         0.0074         0.0093         0.0120           WV         0.0070         0.0093         0.0089         0.0089         0.0031         0.0069         0.0090           WI         0.0044         0.0044         0.0037         0.0074         0.0041         0.0050         0.0052	TX	0.0053	0.0049	0.0046	0.0063	0.0088	0.0097	0.0073
VA         0.0038         0.0038         0.0031         0.0061         0.0085         0.0055         0.0052           WA         0.0068         0.0066         0.0057         0.0065         0.0074         0.0093         0.0120           WV         0.0070         0.0093         0.0089         0.0089         0.0031         0.0069         0.0090           WI         0.0044         0.0044         0.0037         0.0074         0.0041         0.0050         0.0052	UT	0.0156	0.0120	0.0110	0.0082	0.0149	0.0184	0.0133
WA         0.0068         0.0066         0.0057         0.0065         0.0074         0.0093         0.0120           WV         0.0070         0.0093         0.0089         0.0089         0.0031         0.0069         0.0090           WI         0.0044         0.0044         0.0037         0.0074         0.0041         0.0050         0.0052	VT	0.0077	0.0103	0.0092	0.0149	0.0087	0.0081	0.0187
WV         0.0070         0.0093         0.0089         0.0089         0.0031         0.0069         0.0090           WI         0.0044         0.0044         0.0037         0.0074         0.0041         0.0050         0.0052	VA	0.0038	0.0038	0.0031	0.0061	0.0085	0.0055	0.0052
WI 0.0044 0.0044 0.0037 0.0074 0.0041 0.0050 0.0052	WA	0.0068	0.0066	0.0057	0.0065	0.0074	0.0093	0.0120
	WV	0.0070	0.0093	0.0089	0.0089	0.0031	0.0069	0.0090
WY 0.0174 0.0163 0.0139 0.0200 0.0154 0.0167 0.0166	WI	0.0044	0.0044	0.0037	0.0074	0.0041	0.0050	0.0052
	WY	0.0174	0.0163	0.0139	0.0200	0.0154	0.0167	0.0166

	Standard Erro	rs of the Proporti	on 65 Years and	Older in the GQ	Population for Al	ternative Methods	S
State	Simulations	SDR with	SDR with	Ten Random	Five Random	Simulations	SDR No GQ
	with GQ	Inflation	Inflation	Groups with	Groups with	No GQ	Imputation
	Imputation	Factors	Factors	Reimputation	Reimputation	Imputation	
		Research	Production	_	_		
AK	0.0095	0.0122	0.0104	0.0103	0.0131	0.0066	0.0122
AZ	0.0153	0.0065	0.0054	0.0088	0.0067	0.0208	0.0146
AR	0.0096	0.0115	0.0095	0.0076	0.0125	0.0148	0.0153
CA	0.0041	0.0037	0.0032	0.0027	0.0025	0.0060	0.0080
CO	0.0063	0.0078	0.0067	0.0099	0.0069	0.0077	0.0120
CT	0.0062	0.0079	0.0071	0.0103	0.0089	0.0059	0.0087
DE	0.0114	0.0172	0.0143	0.0105	0.0128	0.0136	0.0148
DC	0.0050	0.0097	0.0085	0.0108	0.0130	0.0054	0.0110
FL	0.0045	0.0046	0.0040	0.0054	0.0047	0.0061	0.0078
GA	0.0051	0.0048	0.0040	0.0054	0.0074	0.0071	0.0062
HI	0.0125	0.0174	0.0156	0.0126	0.0130	0.0213	0.0161
ID	0.0088	0.0155	0.0131	0.0096	0.0191	0.0141	0.0177
IL	0.0056	0.0059	0.0052	0.0110	0.0134	0.0073	0.0089
IN	0.0067	0.0075	0.0062	0.0060	0.0089	0.0061	0.0097
IA	0.0089	0.0110	0.0093	0.0104	0.0068	0.0085	0.0126
KS	0.0085	0.0111	0.0098	0.0091	0.0135	0.0095	0.0138
KY	0.0061	0.0088	0.0073	0.0116	0.0119	0.0081	0.0107
LA	0.0070	0.0084	0.0069	0.0077	0.0103	0.0061	0.0082
ME	0.0194	0.0200	0.0167	0.0201	0.0186	0.0262	0.0230
MD	0.0085	0.0081	0.0070	0.0053	0.0066	0.0098	0.0143
MA	0.0057	0.0061	0.0049	0.0092	0.0129	0.0092	0.0080
MI	0.0056	0.0069	0.0057	0.0063	0.0039	0.0072	0.0094
MN	0.0093	0.0096	0.0082	0.0036	0.0071	0.0126	0.0113
MS	0.0059	0.0091	0.0074	0.0085	0.0045	0.0087	0.0114
MO	0.0057	0.0082	0.0068	0.0092	0.0109	0.0079	0.0113
MT	0.0161	0.0135	0.0122	0.0094	0.0132	0.0127	0.0109
NE	0.0105	0.0158	0.0131	0.0115	0.0076	0.0121	0.0180
NV	0.0130	0.0133	0.0120	0.0095	0.0115	0.0096	0.0199
NH	0.0123	0.0161	0.0137	0.0104	0.0190	0.0146	0.0160
NJ	0.0060	0.0074	0.0065	0.0059	0.0110	0.0085	0.0104
NM	0.0182	0.0157	0.0134	0.0161	0.0249	0.0170	0.0213
NY	0.0041	0.0039	0.0033	0.0073	0.0031	0.0061	0.0055
NC	0.0056	0.0059	0.0050	0.0037	0.0038	0.0076	0.0074
ND	0.0132	0.0215	0.0179	0.0123	0.0035	0.0122	0.0183
OH	0.0057	0.0062	0.0054	0.0061	0.0105	0.0080	0.0101
OK	0.0099	0.0092	0.0073	0.0100	0.0044	0.0109	0.0087
OR	0.0115	0.0117	0.0100	0.0098	0.0088	0.0147	0.0184
PA	0.0043	0.0048	0.0043	0.0039	0.0031	0.0067	0.0061
RI	0.0151	0.0125	0.0109	0.0206	0.0264	0.0205	0.0120
SC	0.0086	0.0068	0.0056	0.0087	0.0082	0.0120	0.0070
SD	0.0165	0.0160	0.0131	0.0234	0.0370	0.0189	0.0140
TN	0.0084	0.0078	0.0065	0.0061	0.0083	0.0120	0.0108
TX	0.0032	0.0035	0.0030	0.0029	0.0039	0.0039	0.0044
UT	0.0080	0.0100	0.0086	0.0029	0.0015	0.0101	0.0108
VT	0.0134	0.0158	0.0122	0.0091	0.0071	0.0095	0.0163
VA	0.0051	0.0047	0.0039	0.0028	0.0049	0.0057	0.0061
WA	0.0113	0.0087	0.0074	0.0084	0.0107	0.0140	0.0163
WV	0.0113	0.0124	0.0103	0.0077	0.0132	0.0224	0.0109
WI	0.0075	0.0080	0.0066	0.0077	0.0067	0.0134	0.0092
WY	0.0139	0.0180	0.0146	0.0132	0.0103	0.0087	0.0092
		merican Comm				0.0007	0.0193

		s of the Proportion					
State	Simulations	SDR with	SDR with	Ten Random	Five Random	Simulations	SDR No GQ
	with GQ	Inflation	Inflation	Groups with	Groups with	No GQ	Imputation
	Imputation	Factors Research	Factors Production	Reimputation	Reimputation	Imputation	
AK	0.0063	0.0053	0.0047	0.0022	0.0049	0.0096	0.0125
AZ	0.0081	0.0029	0.0026	0.0029	0.0029	0.0174	0.0076
AR	0.0078	0.0054	0.0044	0.0024	0.0014	0.0113	0.0054
CA	0.0033	0.0014	0.0012	0.0030	0.0027	0.0052	0.0032
CO	0.0053	0.0027	0.0023	0.0030	0.0018	0.0057	0.0051
CT	0.0052	0.0035	0.0031	0.0028	0.0042	0.0089	0.0081
DE	0.0054	0.0069	0.0058	0.0031	0.0062	0.0061	0.0043
DC	0.0059	0.0023	0.0019	0.0080	0.0168	0.0063	0.0054
FL	0.0035	0.0020	0.0015	0.0027	0.0030	0.0070	0.0042
GA	0.0040	0.0022	0.0019	0.0026	0.0030	0.0046	0.0043
HI	0.0052	0.0071	0.0058	0.0108	0.0109	0.0071	0.0109
ID	0.0095	0.0049	0.0038	0.0029	0.0029	0.0101	0.0043
IL	0.0023	0.0015	0.0013	0.0013	0.0007	0.0043	0.0016
IN	0.0042	0.0021	0.0018	0.0041	0.0022	0.0050	0.0057
IA	0.0075	0.0033	0.0027	0.0031	0.0017	0.0071	0.0046
KS	0.0063	0.0028	0.0022	0.0038	0.0041	0.0092	0.0043
KY	0.0078	0.0029	0.0025	0.0044	0.0014	0.0065	0.0083
LA	0.0047	0.0025	0.0022	0.0053	0.0061	0.0059	0.0175
ME	0.0054	0.0069	0.0061	0.0072	0.0131	0.0081	0.0092
MD	0.0046	0.0032	0.0028	0.0048	0.0038	0.0041	0.0049
MA	0.0038	0.0025	0.0022	0.0040	0.0030	0.0034	0.0033
MI	0.0034	0.0023	0.0022	0.0021	0.0025	0.0048	0.0048
MN	0.0038	0.0020	0.0017	0.0087	0.0080	0.0043	0.0036
MS	0.0071	0.0035	0.0029	0.0026	0.0049	0.0106	0.0059
MO	0.0036	0.0025	0.0022	0.0022	0.0031	0.0070	0.0026
MT	0.0134	0.0128	0.0107	0.0077	0.0113	0.0209	0.0157
NE	0.0080	0.0073	0.0067	0.0066	0.0102	0.0106	0.0119
NV	0.0100	0.0064	0.0064	0.0025	0.0027	0.0398	0.0087
NH NJ	0.0110 0.0032	0.0050 0.0029	0.0043 0.0024	0.0047 0.0054	0.0031 0.0055	0.0207 0.0059	0.0041 0.0079
NM	0.0032	0.0029	0.0024	0.0034	0.0053	0.0039	0.0079
NY	0.0093	0.0024	0.0031	0.0077	0.0033	0.0051	0.0041
NC	0.0036	0.0024	0.0022	0.0023	0.0013	0.0031	0.0023
ND	0.0068	0.0063	0.0050	0.0063	0.0017	0.0097	0.0042
OH	0.0036	0.0003	0.0030	0.0026	0.0013	0.0031	0.0054
OK	0.0046	0.0015	0.0022	0.0040	0.0035	0.0051	0.0024
OR	0.0084	0.0029	0.0026	0.0028	0.0041	0.0086	0.0056
PA	0.0044	0.0016	0.0014	0.0025	0.0039	0.0042	0.0030
RI	0.0073	0.0050	0.0043	0.0021	0.0019	0.0115	0.0049
SC	0.0056	0.0030	0.0026	0.0030	0.0039	0.0088	0.0034
SD	0.0118	0.0044	0.0037	0.0061	0.0122	0.0228	0.0091
TN	0.0046	0.0025	0.0021	0.0025	0.0031	0.0056	0.0035
TX	0.0019	0.0013	0.0011	0.0023	0.0029	0.0032	0.0020
UT	0.0260	0.0056	0.0047	0.0077	0.0064	0.0344	0.0110
VT	0.0062	0.0084	0.0071	0.0012	0.0032	0.0085	0.0058
VA	0.0035	0.0018	0.0015	0.0015	0.0024	0.0056	0.0033
WA	0.0069	0.0022	0.0017	0.0065	0.0108	0.0093	0.0021
WV	0.0053	0.0070	0.0059	0.0094	0.0079	0.0063	0.0090
WI	0.0040	0.0026	0.0023	0.0034	0.0037	0.0043	0.0062
WY	0.0062	0.0072	0.0058	0.0020	0.0049	0.0077	0.0042

With GGQ   Impatation   Factors   Factors		Standard E	rrors of the Propo	rtion 18 to 34 Ye	ears in the GQ Po	pulation for Alter	native Methods	
Martin	State	Simulations	SDR with	SDR with	Ten Random	Five Random	Simulations	SDR No GQ
Research   Production			Inflation	Inflation	Groups with	Groups with	No GQ	Imputation
AK         0.0220         0.0271         0.0230         0.0401         0.0380         0.0427         0.016           AZ         0.0127         0.0115         0.0111         0.0150         0.0158         0.0160         0.0161           AR         0.0106         0.0107         0.0093         0.0074         0.0061         0.0171         0.018           CA         0.0044         0.0040         0.0037         0.0053         0.0034         0.0051         0.0074           CO         0.0098         0.0103         0.0094         0.0131         0.0109         0.0169         0.018           CT         0.0076         0.0080         0.0033         0.0022         0.0160         0.0203         0.0222           DC         0.0170         0.0211         0.0229         0.0206         0.0426         0.0197         0.0216           FL         0.0038         0.0055         0.0049         0.0088         0.0092         0.0090         0.0178           GA         0.0086         0.0075         0.0065         0.0067         0.0069         0.0118         0.013           H         0.0202         0.0090         0.0178         0.0218         0.0212         0.008		Imputation	Factors	Factors	Reimputation	Reimputation	Imputation	
AZ				Production				
AR	AK					0.0380	0.0427	0.0455
CA         0.0044         0.0040         0.0037         0.0033         0.0034         0.0036         0.0077           CC         0.0098         0.0103         0.0094         0.0131         0.0190         0.0189         0.0185           CT         0.0076         0.0080         0.0073         0.0068         0.0096         0.0085         0.0121           DE         0.0133         0.0163         0.0129         0.0206         0.0426         0.0197         0.0211           FL         0.0083         0.0055         0.0049         0.0088         0.0092         0.0090         0.0101           GA         0.0088         0.0075         0.0065         0.0067         0.0069         0.0118         0.013           GA         0.0088         0.0092         0.0090         0.0108         0.0069         0.0118         0.013           HI         0.0202         0.0242         0.0212         0.0225         0.0233         0.053           ID         0.0178         0.0055         0.0049         0.0044         0.0041         0.0051         0.0022           IL         0.0099         0.0072         0.0066         0.0063         0.0075         0.0114         0.0104		0.0127		0.0111	0.0150	0.0158	0.0180	0.0161
CO         0.0098         0.0103         0.0094         0.0131         0.0190         0.0149         0.0185           CT         0.0076         0.0080         0.0073         0.0068         0.0096         0.0085         0.0121           DE         0.0133         0.0163         0.0139         0.0120         0.0160         0.0203         0.0221           DC         0.0170         0.0211         0.0229         0.0206         0.0426         0.0197         0.0211           FL         0.0083         0.0055         0.0049         0.0088         0.0092         0.0090         0.0116           GA         0.0086         0.0075         0.0065         0.0067         0.0069         0.0118         0.013           HI         0.0202         0.0242         0.0212         0.0255         0.0235         0.0233         0.0552           IL         0.0049         0.0057         0.0065         0.0063         0.0075         0.0118         0.0122           IL         0.0049         0.0030         0.0097         0.0040         0.0051         0.008           IN         0.0069         0.0103         0.0097         0.0083         0.0075         0.0114         0.016								0.0183
CT								0.0077
DE	CO		0.0103			0.0190	0.0149	0.0188
DC	CT				0.0068	0.0096	0.0085	0.0121
FL	DE	0.0133		0.0139	0.0120	0.0160		0.0220
GA								0.0210
HI	FL	0.0083	0.0055	0.0049	0.0088	0.0092	0.0090	0.0100
DE	GA	0.0086				0.0069		0.0132
IL	HI	0.0202				0.0235		0.0550
IN	ID	0.0178	0.0227	0.0190	0.0170	0.0045	0.0320	0.0223
IA	IL	0.0049	0.0057	0.0055	0.0049	0.0040	0.0051	0.0085
KS         0.0108         0.0105         0.0094         0.0084         0.0134         0.0165         0.0145           KY         0.0157         0.0094         0.0086         0.0123         0.0122         0.0163         0.0332           LA         0.0098         0.0098         0.0083         0.0155         0.0178         0.0145         0.0155           ME         0.0161         0.0136         0.0115         0.0115         0.0204         0.0237         0.0133           MD         0.0089         0.0089         0.0087         0.0087         0.0112         0.0130         0.0113           MD         0.0063         0.0063         0.0067         0.0086         0.0131         0.0130         0.0131           MI         0.0073         0.0067         0.0059         0.0094         0.0111         0.0092         0.0092           MN         0.0108         0.0074         0.0063         0.0068         0.0101         0.0156         0.0103           MS         0.0086         0.0116         0.0110         0.0109         0.0148         0.0109         0.0144           MO         0.0064         0.0077         0.0071         0.0078         0.0056         0.0082	IN	0.0080	0.0072	0.0066	0.0063	0.0075	0.0114	0.0105
KY         0.0157         0.0094         0.0086         0.0123         0.0122         0.0163         0.0321           LA         0.0098         0.0098         0.0083         0.0155         0.0178         0.0145         0.0155           ME         0.0161         0.0136         0.0115         0.0115         0.0204         0.0237         0.013           MD         0.0089         0.0089         0.0087         0.0012         0.0130         0.0109           MA         0.0063         0.0063         0.0057         0.0064         0.0067         0.0082         0.013           MI         0.0073         0.0067         0.0059         0.0094         0.0111         0.0092         0.0092           MN         0.0108         0.0074         0.0063         0.0068         0.0101         0.0156         0.0105           MS         0.0086         0.0116         0.0110         0.0109         0.0148         0.0109         0.0148           MO         0.0064         0.0077         0.0071         0.0078         0.056         0.0082         0.017           MT         0.0303         0.0181         0.0154         0.0343         0.0249         0.0281         0.058	IA	0.0069	0.0103	0.0097	0.0080	0.0090	0.0125	0.0219
LA	KS	0.0108	0.0105	0.0094	0.0084	0.0134	0.0165	0.0145
ME         0.0161         0.0136         0.0115         0.0115         0.0204         0.0237         0.0139           MD         0.0089         0.0089         0.0089         0.0087         0.0112         0.0130         0.0103           MA         0.0063         0.0063         0.0057         0.0064         0.0067         0.0082         0.013           MI         0.0073         0.0067         0.0059         0.0094         0.0111         0.0092         0.0092           MN         0.0108         0.0074         0.0063         0.0088         0.0101         0.0156         0.010           MS         0.0086         0.0116         0.0100         0.0109         0.0148         0.0109         0.0148           MO         0.0064         0.0077         0.0071         0.0078         0.0056         0.0082         0.017           MT         0.0303         0.0181         0.0154         0.0343         0.0249         0.0281         0.058           NE         0.0110         0.0102         0.0084         0.0088         0.0103         0.0139         0.0125           NV         0.0232         0.0218         0.0206         0.0191         0.0192         0.0318	KY	0.0157	0.0094	0.0086	0.0123	0.0122	0.0163	0.0321
MD         0.0089         0.0089         0.0078         0.0087         0.0112         0.0130         0.0109           MA         0.0063         0.0063         0.0057         0.0064         0.0067         0.0082         0.0131           MI         0.0073         0.0067         0.0059         0.0094         0.0111         0.0092         0.0092           MN         0.0108         0.0074         0.0063         0.0068         0.0101         0.0156         0.0102           MS         0.0086         0.0116         0.0110         0.0109         0.0148         0.0109         0.0144           MO         0.0064         0.0077         0.0071         0.0078         0.0056         0.0082         0.0176           MT         0.0303         0.0181         0.0154         0.0343         0.0249         0.0281         0.058           NE         0.0110         0.0102         0.0844         0.0088         0.0103         0.0139         0.0122           NV         0.0232         0.0218         0.0206         0.0191         0.0192         0.0318         0.0402           NJ         0.0096         0.0068         0.0061         0.0065         0.0059         0.0131         <	LA	0.0098	0.0098	0.0083	0.0155	0.0178	0.0145	0.0156
MA         0.0063         0.0067         0.0064         0.0067         0.0082         0.0138           MI         0.0073         0.0067         0.0059         0.0094         0.0111         0.0092         0.0092           MN         0.0108         0.0074         0.0063         0.0068         0.0101         0.0156         0.0107           MS         0.0086         0.0116         0.0110         0.0109         0.0148         0.0109         0.0144           MO         0.0064         0.0077         0.0071         0.0078         0.0056         0.0082         0.0170           MT         0.0303         0.0181         0.0154         0.0343         0.0249         0.0281         0.0588           NE         0.0110         0.0102         0.0084         0.0088         0.0103         0.0139         0.0125           NV         0.0232         0.0218         0.0206         0.0191         0.0192         0.0318         0.0407           NH         0.0108         0.0106         0.0096         0.0125         0.0070         0.0179         0.0114           NJ         0.0096         0.0068         0.0061         0.0065         0.0059         0.0131         0.0118 <td>ME</td> <td>0.0161</td> <td>0.0136</td> <td>0.0115</td> <td>0.0115</td> <td>0.0204</td> <td>0.0237</td> <td>0.0139</td>	ME	0.0161	0.0136	0.0115	0.0115	0.0204	0.0237	0.0139
MI         0.0073         0.0067         0.0059         0.0094         0.0111         0.0092         0.0099           MN         0.0108         0.0074         0.0063         0.0068         0.0101         0.0156         0.0107           MS         0.0086         0.0116         0.0110         0.0109         0.0148         0.0109         0.0148           MO         0.0064         0.0077         0.0071         0.0078         0.0056         0.0082         0.0177           MT         0.0303         0.0181         0.0154         0.0343         0.0249         0.0281         0.0586           NE         0.0110         0.0102         0.0084         0.0088         0.0103         0.0139         0.0125           NV         0.0232         0.0218         0.0206         0.0191         0.0192         0.0318         0.0407           NH         0.0108         0.0106         0.0096         0.0125         0.0070         0.0179         0.0112           NJ         0.0096         0.0068         0.0061         0.0065         0.0059         0.0131         0.0118           NY         0.0043         0.0047         0.0044         0.0044         0.0044         0.0044	MD	0.0089	0.0089	0.0078	0.0087	0.0112	0.0130	0.0109
MN         0.0108         0.0074         0.0063         0.0068         0.0101         0.0156         0.0107           MS         0.0086         0.0116         0.0110         0.0109         0.0148         0.0109         0.0144           MO         0.0064         0.0077         0.0071         0.0078         0.0056         0.0082         0.0174           MT         0.0303         0.0181         0.0154         0.0343         0.0249         0.0281         0.0588           NE         0.0110         0.0102         0.0084         0.0088         0.0103         0.0139         0.0129           NV         0.0232         0.0218         0.0206         0.0191         0.0192         0.0318         0.0407           NH         0.0108         0.0106         0.0096         0.0125         0.0070         0.0179         0.0114           NJ         0.0096         0.0068         0.0061         0.0065         0.0059         0.0131         0.0118           NJ         0.0043         0.0047         0.0040         0.0284         0.0184         0.0223         0.0293           NY         0.0043         0.0047         0.0044         0.0044         0.0035         0.0042	MA	0.0063	0.0063	0.0057	0.0064	0.0067	0.0082	0.0138
MS         0.0086         0.0116         0.0110         0.0109         0.0148         0.0109         0.0146           MO         0.0064         0.0077         0.0071         0.0078         0.0056         0.0082         0.0176           MT         0.0303         0.0181         0.0154         0.0343         0.0249         0.0281         0.0588           NE         0.0110         0.0102         0.0084         0.0088         0.0103         0.0139         0.0129           NV         0.0232         0.0218         0.0206         0.0191         0.0192         0.0318         0.0407           NH         0.0108         0.0106         0.0096         0.0125         0.0070         0.0179         0.0114           NJ         0.0096         0.0068         0.0061         0.0065         0.0059         0.0131         0.0118           NY         0.0043         0.0047         0.0044         0.0044         0.0044         0.0035         0.0042         0.0061           NC         0.0069         0.0065         0.0060         0.0052         0.0078         0.0088         0.0113           ND         0.0144         0.0130         0.0111         0.0127         0.0093	MI	0.0073	0.0067	0.0059	0.0094	0.0111	0.0092	0.0092
MO         0.0064         0.0077         0.0071         0.0078         0.0056         0.0082         0.0176           MT         0.0303         0.0181         0.0154         0.0343         0.0249         0.0281         0.0588           NE         0.0110         0.0102         0.0084         0.0088         0.0103         0.0139         0.0125           NV         0.0232         0.0218         0.0206         0.0191         0.0192         0.0318         0.0401           NH         0.0108         0.0106         0.0096         0.0125         0.0070         0.0179         0.0114           NJ         0.0096         0.0068         0.0061         0.0065         0.0059         0.0131         0.0118           NJ         0.0046         0.0019         0.0284         0.0184         0.0223         0.0293           NY         0.0043         0.0047         0.0044         0.0044         0.0035         0.0042         0.0061           NC         0.0069         0.0065         0.0060         0.0052         0.0078         0.0088         0.0117           OH         0.0052         0.0051         0.0046         0.0057         0.0094         0.0062         0.0155 <td>MN</td> <td>0.0108</td> <td>0.0074</td> <td>0.0063</td> <td>0.0068</td> <td>0.0101</td> <td>0.0156</td> <td>0.0107</td>	MN	0.0108	0.0074	0.0063	0.0068	0.0101	0.0156	0.0107
MT         0.0303         0.0181         0.0154         0.0343         0.0249         0.0281         0.0586           NE         0.0110         0.0102         0.0084         0.0088         0.0103         0.0139         0.0129           NV         0.0232         0.0218         0.0206         0.0191         0.0192         0.0318         0.0400           NH         0.0108         0.0106         0.0096         0.0125         0.0070         0.0179         0.0114           NI         0.0096         0.0065         0.0059         0.0131         0.0118           NM         0.0136         0.0212         0.0190         0.0284         0.0184         0.0223         0.0293           NY         0.0043         0.0047         0.0044         0.0044         0.0035         0.0042         0.0061           NC         0.0069         0.0065         0.0060         0.0052         0.0078         0.0088         0.0103           ND         0.0144         0.0130         0.0111         0.0127         0.0093         0.0128         0.0115           OK         0.0094         0.0107         0.0091         0.0148         0.0099         0.0146         0.0152           O	MS	0.0086	0.0116	0.0110	0.0109	0.0148	0.0109	0.0146
NE         0.0110         0.0102         0.0084         0.0088         0.0103         0.0139         0.0129           NV         0.0232         0.0218         0.0206         0.0191         0.0192         0.0318         0.0407           NH         0.0108         0.0106         0.0096         0.0125         0.0070         0.0179         0.0114           NJ         0.0096         0.0068         0.0061         0.0065         0.0059         0.0131         0.0118           NM         0.0136         0.0212         0.0190         0.0284         0.0184         0.0223         0.0293           NY         0.0043         0.0047         0.0044         0.0044         0.0035         0.0042         0.0061           NC         0.0069         0.0065         0.0060         0.0052         0.0078         0.0088         0.0103           ND         0.0144         0.0130         0.0111         0.0127         0.0093         0.0128         0.0113           OK         0.0094         0.0107         0.0091         0.0148         0.0099         0.0146         0.0126           OR         0.0077         0.0130         0.0110         0.0128         0.0102         0.0167	MO	0.0064	0.0077	0.0071	0.0078	0.0056	0.0082	0.0176
NV         0.0232         0.0218         0.0206         0.0191         0.0192         0.0318         0.0407           NH         0.0108         0.0106         0.0096         0.0125         0.0070         0.0179         0.0114           NJ         0.0096         0.0068         0.0061         0.0065         0.0059         0.0131         0.0118           NM         0.0136         0.0212         0.0190         0.0284         0.0184         0.0223         0.0293           NY         0.0043         0.0047         0.0044         0.0044         0.0035         0.0042         0.0061           NC         0.0069         0.0065         0.0060         0.0052         0.0078         0.0088         0.0103           ND         0.0144         0.0130         0.0111         0.0127         0.0093         0.0128         0.0117           OH         0.0052         0.0051         0.0046         0.0057         0.0094         0.0062         0.0153           OK         0.0094         0.0107         0.0091         0.0148         0.0099         0.0146         0.0128           OR         0.0077         0.0130         0.0110         0.0128         0.0102         0.0167	MT	0.0303	0.0181	0.0154	0.0343	0.0249	0.0281	0.0586
NH         0.0108         0.0106         0.0096         0.0125         0.0070         0.0179         0.014           NJ         0.0096         0.0068         0.0061         0.0065         0.0059         0.0131         0.0118           NM         0.0136         0.0212         0.0190         0.0284         0.0184         0.0223         0.0293           NY         0.0043         0.0047         0.0044         0.0044         0.0035         0.0042         0.0061           NC         0.0069         0.0065         0.0060         0.0052         0.0078         0.0088         0.0103           ND         0.0144         0.0130         0.0111         0.0127         0.0093         0.0128         0.0117           OH         0.0052         0.0051         0.0046         0.0057         0.0094         0.0062         0.0155           OK         0.0094         0.0107         0.0091         0.0148         0.0099         0.0146         0.0152           OR         0.0077         0.0130         0.0110         0.0128         0.0102         0.0167         0.0202           PA         0.0058         0.0043         0.0038         0.0049         0.0041         0.0073         <	NE	0.0110	0.0102	0.0084	0.0088	0.0103	0.0139	0.0129
NJ         0.0096         0.0068         0.0061         0.0065         0.0059         0.0131         0.0118           NM         0.0136         0.0212         0.0190         0.0284         0.0184         0.0223         0.0293           NY         0.0043         0.0047         0.0044         0.0044         0.0035         0.0042         0.0061           NC         0.0069         0.0065         0.0060         0.0052         0.0078         0.0088         0.0103           ND         0.0144         0.0130         0.0111         0.0127         0.0093         0.0128         0.0117           OH         0.0052         0.0051         0.0046         0.0057         0.0094         0.0062         0.0153           OK         0.0094         0.0107         0.0091         0.0148         0.0099         0.0146         0.0128           OR         0.0077         0.0130         0.0110         0.0128         0.0102         0.0167         0.0202           PA         0.0058         0.0043         0.0038         0.0049         0.0041         0.0073         0.0052           RI         0.0117         0.0108         0.0098         0.0076         0.0111         0.0134	NV	0.0232	0.0218	0.0206	0.0191	0.0192	0.0318	0.0407
NM         0.0136         0.0212         0.0190         0.0284         0.0184         0.0223         0.0293           NY         0.0043         0.0047         0.0044         0.0044         0.0035         0.0042         0.0061           NC         0.0069         0.0065         0.0060         0.0052         0.0078         0.0088         0.0103           ND         0.0144         0.0130         0.0111         0.0127         0.0093         0.0128         0.0117           OH         0.0052         0.0051         0.0046         0.0057         0.0094         0.0062         0.0155           OK         0.0094         0.0107         0.0091         0.0148         0.0099         0.0146         0.0128           OR         0.0077         0.0130         0.0110         0.0128         0.0102         0.0167         0.0202           PA         0.0058         0.0043         0.0038         0.0049         0.0041         0.0073         0.0054           SC         0.0102         0.0078         0.0076         0.0111         0.0134         0.0186           SD         0.0115         0.0185         0.0153         0.0253         0.0296         0.0160         0.0203 <td>NH</td> <td>0.0108</td> <td>0.0106</td> <td>0.0096</td> <td>0.0125</td> <td>0.0070</td> <td>0.0179</td> <td>0.0114</td>	NH	0.0108	0.0106	0.0096	0.0125	0.0070	0.0179	0.0114
NY         0.0043         0.0047         0.0044         0.0044         0.0035         0.0042         0.0069           NC         0.0069         0.0065         0.0060         0.0052         0.0078         0.0088         0.0103           ND         0.0144         0.0130         0.0111         0.0127         0.0093         0.0128         0.0117           OH         0.0052         0.0051         0.0046         0.0057         0.0094         0.0062         0.0155           OK         0.0094         0.0107         0.0091         0.0148         0.0099         0.0146         0.0128           OR         0.0077         0.0130         0.0110         0.0128         0.0102         0.0167         0.0202           PA         0.0058         0.0043         0.0038         0.0049         0.0041         0.0073         0.0052           RI         0.0117         0.0108         0.0098         0.0076         0.0111         0.0134         0.0186           SC         0.0102         0.0078         0.0070         0.0107         0.0116         0.0128         0.0112           SD         0.0115         0.0185         0.0153         0.0253         0.0296         0.0160	NJ	0.0096	0.0068	0.0061	0.0065	0.0059	0.0131	0.0118
NC         0.0069         0.0065         0.0060         0.0052         0.0078         0.0088         0.0103           ND         0.0144         0.0130         0.0111         0.0127         0.0093         0.0128         0.0117           OH         0.0052         0.0051         0.0046         0.0057         0.0094         0.0062         0.0155           OK         0.0094         0.0107         0.0091         0.0148         0.0099         0.0146         0.0128           OR         0.0077         0.0130         0.0110         0.0128         0.0102         0.0167         0.0202           PA         0.0058         0.0043         0.0038         0.0049         0.0041         0.0073         0.0054           RI         0.0117         0.0108         0.0098         0.0076         0.0111         0.0134         0.0186           SC         0.0102         0.0078         0.0070         0.0107         0.0116         0.0128         0.0112           SD         0.0115         0.0185         0.0153         0.0253         0.0296         0.0160         0.0203           TX         0.0046         0.0050         0.0045         0.0093         0.0075         0.0054	NM	0.0136	0.0212	0.0190	0.0284	0.0184	0.0223	0.0293
ND         0.0144         0.0130         0.0111         0.0127         0.0093         0.0128         0.0117           OH         0.0052         0.0051         0.0046         0.0057         0.0094         0.0062         0.0155           OK         0.0094         0.0107         0.0091         0.0148         0.0099         0.0146         0.0128           OR         0.0077         0.0130         0.0110         0.0128         0.0102         0.0167         0.0202           PA         0.0058         0.0043         0.0038         0.0049         0.0041         0.0073         0.0054           RI         0.0117         0.0108         0.0098         0.0076         0.0111         0.0134         0.0180           SC         0.0102         0.0078         0.0070         0.0107         0.0116         0.0128         0.0112           SD         0.0115         0.0185         0.0153         0.0253         0.0296         0.0160         0.0203           TX         0.0073         0.0081         0.0070         0.0069         0.048         0.0112         0.0132           VT         0.0279         0.0203         0.0185         0.0173         0.0201         0.0494         <	NY	0.0043	0.0047	0.0044	0.0044	0.0035	0.0042	0.0061
OH         0.0052         0.0051         0.0046         0.0057         0.0094         0.0062         0.0155           OK         0.0094         0.0107         0.0091         0.0148         0.0099         0.0146         0.0128           OR         0.0077         0.0130         0.0110         0.0128         0.0102         0.0167         0.0202           PA         0.0058         0.0043         0.0038         0.0049         0.0041         0.0073         0.0052           RI         0.0117         0.0108         0.0098         0.0076         0.0111         0.0134         0.0186           SC         0.0102         0.0078         0.0070         0.0107         0.0116         0.0128         0.0114           SD         0.0115         0.0185         0.0153         0.0253         0.0296         0.0160         0.0205           TN         0.0073         0.0081         0.0070         0.0069         0.0048         0.0112         0.0132           TX         0.0046         0.0050         0.0045         0.0093         0.0075         0.0054         0.0066           VT         0.0148         0.0157         0.0134         0.0078         0.0019         0.0192	NC	0.0069	0.0065	0.0060	0.0052	0.0078	0.0088	0.0103
OK         0.0094         0.0107         0.0091         0.0148         0.0099         0.0146         0.0128           OR         0.0077         0.0130         0.0110         0.0128         0.0102         0.0167         0.0202           PA         0.0058         0.0043         0.0038         0.0049         0.0041         0.0073         0.0054           RI         0.0117         0.0108         0.0098         0.0076         0.0111         0.0134         0.018           SC         0.0102         0.0078         0.0070         0.0107         0.0116         0.0128         0.0112           SD         0.0115         0.0185         0.0153         0.0253         0.0296         0.0160         0.0205           TN         0.0073         0.0081         0.0070         0.0069         0.0048         0.0112         0.0132           TX         0.0046         0.0050         0.0045         0.0093         0.0075         0.0054         0.0066           UT         0.0279         0.0203         0.0185         0.0173         0.0201         0.0494         0.0502           VA         0.0148         0.0157         0.0134         0.0078         0.0019         0.0192         <	ND	0.0144	0.0130	0.0111	0.0127	0.0093	0.0128	0.0117
OR         0.0077         0.0130         0.0110         0.0128         0.0102         0.0167         0.0202           PA         0.0058         0.0043         0.0038         0.0049         0.0041         0.0073         0.0054           RI         0.0117         0.0108         0.0098         0.0076         0.0111         0.0134         0.0186           SC         0.0102         0.0078         0.0070         0.0107         0.0116         0.0128         0.0112           SD         0.0115         0.0185         0.0153         0.0253         0.0296         0.0160         0.0205           TN         0.0073         0.0081         0.0070         0.0069         0.0048         0.0112         0.0132           TX         0.0046         0.0050         0.0045         0.0093         0.0075         0.0054         0.0060           UT         0.0279         0.0203         0.0185         0.0173         0.0201         0.0494         0.0502           VT         0.0148         0.0157         0.0134         0.0078         0.0019         0.0192         0.0157           VA         0.0097         0.0064         0.0056         0.0071         0.0051         0.0089	OH	0.0052	0.0051	0.0046	0.0057	0.0094	0.0062	0.0155
PA         0.0058         0.0043         0.0038         0.0049         0.0041         0.0073         0.0054           RI         0.0117         0.0108         0.0098         0.0076         0.0111         0.0134         0.0186           SC         0.0102         0.0078         0.0070         0.0107         0.0116         0.0128         0.0112           SD         0.0115         0.0185         0.0153         0.0253         0.0296         0.0160         0.0205           TN         0.0073         0.0081         0.0070         0.0069         0.0048         0.0112         0.0132           TX         0.0046         0.0050         0.0045         0.0093         0.0075         0.0054         0.0060           UT         0.0279         0.0203         0.0185         0.0173         0.0201         0.0494         0.0502           VT         0.0148         0.0157         0.0134         0.0078         0.0019         0.0192         0.0157           VA         0.0097         0.0064         0.0056         0.0071         0.0051         0.0089         0.0119           WA         0.0118         0.0036         0.0118         0.0117         0.0094         0.0258	OK	0.0094	0.0107	0.0091	0.0148	0.0099	0.0146	0.0128
RI         0.0117         0.0108         0.0098         0.0076         0.0111         0.0134         0.0180           SC         0.0102         0.0078         0.0070         0.0107         0.0116         0.0128         0.0112           SD         0.0115         0.0185         0.0153         0.0253         0.0296         0.0160         0.0202           TN         0.0073         0.0081         0.0070         0.0069         0.0048         0.0112         0.0132           TX         0.0046         0.0050         0.0045         0.0093         0.0075         0.0054         0.0064           UT         0.0279         0.0203         0.0185         0.0173         0.0201         0.0494         0.0502           VT         0.0148         0.0157         0.0134         0.0078         0.0019         0.0192         0.0157           VA         0.0097         0.0064         0.0056         0.0071         0.0051         0.0089         0.0119           WA         0.0118         0.0036         0.0118         0.0117         0.0094         0.0258         0.0156           WI         0.0062         0.0074         0.0065         0.0055         0.0051         0.0101	OR	0.0077	0.0130	0.0110	0.0128	0.0102	0.0167	0.0202
SC         0.0102         0.0078         0.0070         0.0107         0.0116         0.0128         0.0114           SD         0.0115         0.0185         0.0153         0.0253         0.0296         0.0160         0.0205           TN         0.0073         0.0081         0.0070         0.0069         0.0048         0.0112         0.0132           TX         0.0046         0.0050         0.0045         0.0093         0.0075         0.0054         0.0066           UT         0.0279         0.0203         0.0185         0.0173         0.0201         0.0494         0.0502           VT         0.0148         0.0157         0.0134         0.0078         0.0019         0.0192         0.0157           VA         0.0097         0.0064         0.0056         0.0071         0.0051         0.0089         0.0119           WA         0.0118         0.0036         0.0118         0.0117         0.0094         0.0258         0.0150           WI         0.0062         0.0074         0.0065         0.0055         0.0051         0.0101         0.0108	PA	0.0058	0.0043	0.0038	0.0049	0.0041	0.0073	0.0054
SC         0.0102         0.0078         0.0070         0.0107         0.0116         0.0128         0.0114           SD         0.0115         0.0185         0.0153         0.0253         0.0296         0.0160         0.0205           TN         0.0073         0.0081         0.0070         0.0069         0.0048         0.0112         0.0132           TX         0.0046         0.0050         0.0045         0.0093         0.0075         0.0054         0.0066           UT         0.0279         0.0203         0.0185         0.0173         0.0201         0.0494         0.0502           VT         0.0148         0.0157         0.0134         0.0078         0.0019         0.0192         0.0157           VA         0.0097         0.0064         0.0056         0.0071         0.0051         0.0089         0.0119           WA         0.0118         0.0036         0.0118         0.0117         0.0094         0.0258         0.0150           WI         0.0062         0.0074         0.0065         0.0055         0.0051         0.0101         0.0108	RI	0.0117	0.0108	0.0098	0.0076	0.0111	0.0134	0.0180
TN         0.0073         0.0081         0.0070         0.0069         0.0048         0.0112         0.0132           TX         0.0046         0.0050         0.0045         0.0093         0.0075         0.0054         0.0066           UT         0.0279         0.0203         0.0185         0.0173         0.0201         0.0494         0.0502           VT         0.0148         0.0157         0.0134         0.0078         0.0019         0.0192         0.0157           VA         0.0097         0.0064         0.0056         0.0071         0.0051         0.0089         0.0119           WA         0.0118         0.0098         0.0083         0.0099         0.0095         0.0157         0.0198           WV         0.0136         0.0136         0.0118         0.0117         0.0094         0.0258         0.0150           WI         0.0062         0.0074         0.0065         0.0055         0.0051         0.0101         0.0108	SC	0.0102	0.0078	0.0070	0.0107	0.0116	0.0128	0.0114
TX         0.0046         0.0050         0.0045         0.0093         0.0075         0.0054         0.0066           UT         0.0279         0.0203         0.0185         0.0173         0.0201         0.0494         0.0502           VT         0.0148         0.0157         0.0134         0.0078         0.0019         0.0192         0.0157           VA         0.0097         0.0064         0.0056         0.0071         0.0051         0.0089         0.0119           WA         0.0118         0.0098         0.0083         0.0099         0.0095         0.0157         0.0198           WV         0.0136         0.0136         0.0118         0.0117         0.0094         0.0258         0.0150           WI         0.0062         0.0074         0.0065         0.0055         0.0051         0.0101         0.0108	SD	0.0115	0.0185	0.0153	0.0253	0.0296	0.0160	0.0205
UT         0.0279         0.0203         0.0185         0.0173         0.0201         0.0494         0.0502           VT         0.0148         0.0157         0.0134         0.0078         0.0019         0.0192         0.0157           VA         0.0097         0.0064         0.0056         0.0071         0.0051         0.0089         0.0115           WA         0.0118         0.0098         0.0083         0.0099         0.0095         0.0157         0.0198           WV         0.0136         0.0136         0.0118         0.0117         0.0094         0.0258         0.0150           WI         0.0062         0.0074         0.0065         0.0055         0.0051         0.0101         0.0108	TN	0.0073	0.0081	0.0070	0.0069	0.0048	0.0112	0.0132
VT         0.0148         0.0157         0.0134         0.0078         0.0019         0.0192         0.0157           VA         0.0097         0.0064         0.0056         0.0071         0.0051         0.0089         0.0119           WA         0.0118         0.0098         0.0083         0.0099         0.0095         0.0157         0.0198           WV         0.0136         0.0136         0.0118         0.0117         0.0094         0.0258         0.0150           WI         0.0062         0.0074         0.0065         0.0055         0.0051         0.0101         0.0108	TX	0.0046	0.0050	0.0045	0.0093	0.0075	0.0054	0.0066
VA         0.0097         0.0064         0.0056         0.0071         0.0051         0.0089         0.0119           WA         0.0118         0.0098         0.0083         0.0099         0.0095         0.0157         0.0198           WV         0.0136         0.0136         0.0118         0.0117         0.0094         0.0258         0.0150           WI         0.0062         0.0074         0.0065         0.0055         0.0051         0.0101         0.0108	UT	0.0279	0.0203	0.0185	0.0173	0.0201	0.0494	0.0502
WA         0.0118         0.0098         0.0083         0.0099         0.0095         0.0157         0.0198           WV         0.0136         0.0136         0.0118         0.0117         0.0094         0.0258         0.0150           WI         0.0062         0.0074         0.0065         0.0055         0.0051         0.0101         0.0108	VT	0.0148	0.0157	0.0134	0.0078	0.0019	0.0192	0.0157
WV         0.0136         0.0136         0.0118         0.0117         0.0094         0.0258         0.0150           WI         0.0062         0.0074         0.0065         0.0055         0.0051         0.0101         0.0108	VA	0.0097	0.0064	0.0056	0.0071	0.0051	0.0089	0.0119
WI 0.0062 0.0074 0.0065 0.0055 0.0051 0.0101 0.0108	WA	0.0118	0.0098	0.0083	0.0099	0.0095	0.0157	0.0198
	WV	0.0136	0.0136	0.0118	0.0117	0.0094	0.0258	0.0150
WY 0.0168 0.0221 0.0188 0.0212 0.0201 0.0189 0.0217	WI	0.0062	0.0074	0.0065	0.0055	0.0051	0.0101	0.0108
	WY	0.0168	0.0221	0.0188	0.0212	0.0201	0.0189	0.0217

State Inflation Factors Research         SDR with Inflation Inflation Factors Production         Five Random Groups with Reimputation Production         Five Random Reimputation Reimputation         SDR no GQ Imputation           AL         0.0103         0.0091         0.0112         0.0095         0.0128           AK         0.0237         0.0200         0.0119         0.0134         0.0184           AR         0.0125         0.0104         0.0122         0.0136         0.0173           CA         0.0048         0.0043         0.0045         0.0045         0.0075           CO         0.0113         0.0100         0.0101         0.0100         0.0173           CT         0.0107         0.0096         0.0122         0.0094         0.0173           DE         0.0221         0.0199         0.0002         0.0371           DC         0.0267         0.0289         0.0002         0.0103         0.0379           FL         0.0058         0.0033         0.0073         0.0063         0.0173           GA         0.0071         0.0063         0.0073         0.0063         0.0174           HI         0.0246         0.0201         0.0173         0.0165         0.0175         0.0310	Standa	ard Errors of the P	roportion High S	chool Degree or	Better in the GQ	Population
Research   Factors   Reimputation   Reimputation   Research   Production   Reimputation   Reim	State	SDR with	SDR with	Ten Random	Five Random	SDR no GQ
Research		Inflation	Inflation			Imputation
AL         0.0103         0.0091         0.0112         0.0095         0.0128           AK         0.0237         0.0200         0.0119         0.0130         0.0224           AZ         0.0110         0.0102         0.0120         0.0134         0.0184           AR         0.0125         0.0104         0.0122         0.0136         0.0073           CA         0.0048         0.0043         0.0045         0.0045         0.0079           CO         0.0113         0.0100         0.0101         0.0100         0.0101           CO         0.0113         0.0100         0.0101         0.0100         0.0101           CT         0.0107         0.0096         0.0122         0.0094         0.0179           DE         0.0221         0.0192         0.0098         0.0202         0.0317           DC         0.0267         0.0289         0.0622         0.0103         0.0339           FL         0.0058         0.0053         0.0079         0.0042         0.0096           GA         0.0072         0.0065         0.0073         0.0063         0.0071           HI         0.0246         0.0163         0.0083         0.0061 <th< td=""><td></td><td></td><td></td><td>Reimputation</td><td>Reimputation</td><td></td></th<>				Reimputation	Reimputation	
AK         0.0237         0.0200         0.0119         0.0130         0.0224           AZ         0.0110         0.0102         0.0120         0.0134         0.0184           AR         0.0125         0.0104         0.0122         0.0136         0.0079           CA         0.0048         0.0043         0.0045         0.0045         0.0079           CO         0.0113         0.0100         0.0101         0.0100         0.0101           CT         0.0107         0.0096         0.0122         0.0094         0.0179           DE         0.0221         0.0192         0.0098         0.0202         0.0371           DC         0.0267         0.0289         0.0062         0.0103         0.0379           FL         0.0058         0.0053         0.0079         0.0042         0.0066           GA         0.0072         0.0065         0.0073         0.0063         0.0141           HI         0.0246         0.0266         0.0146         0.0155         0.0310           ID         0.0201         0.0173         0.0165         0.0173         0.0165         0.0174           IL         0.0071         0.0063         0.0088 <td< td=""><td></td><td></td><td>Production</td><td></td><td></td><td></td></td<>			Production			
AZ         0.0110         0.0102         0.0120         0.0134         0.0184           AR         0.0125         0.0104         0.0122         0.0136         0.00173           CA         0.0048         0.0043         0.0045         0.0075           CO         0.0113         0.0100         0.0101         0.0100         0.0192           CO         0.0113         0.0100         0.0101         0.0100         0.0122           DE         0.0221         0.0192         0.0098         0.0202         0.0371           DC         0.0267         0.0289         0.0062         0.0103         0.0379           FL         0.0058         0.0053         0.0079         0.0042         0.0066           GA         0.0072         0.0065         0.0073         0.0063         0.0147           HI         0.0246         0.0206         0.0146         0.0155         0.0310           ID         0.0201         0.0173         0.0165         0.0176         0.0234           IL         0.0071         0.0063         0.0088         0.0021         0.0102           IN         0.0083         0.0076         0.0113         0.0092         0.0145						
AR         0.0125         0.0104         0.0122         0.0136         0.0173           CA         0.0048         0.0043         0.0045         0.0045         0.0079           CO         0.0113         0.0100         0.0101         0.0100         0.0192           CT         0.0107         0.0096         0.0122         0.0094         0.0179           DE         0.0221         0.0192         0.0098         0.0202         0.0371           DC         0.0267         0.0289         0.0062         0.0103         0.0371           DC         0.0267         0.0289         0.0062         0.0103         0.0371           FL         0.0058         0.0053         0.0079         0.0042         0.0096           GA         0.0072         0.0065         0.0073         0.0063         0.0141           HI         0.0246         0.0206         0.0146         0.0155         0.0131           DD         0.0201         0.0173         0.0165         0.0176         0.0248           IL         0.0071         0.0063         0.0088         0.0021         0.0122           IN         0.0083         0.0076         0.013         0.0165						
CA         0.0048         0.0043         0.0045         0.0079           CO         0.0113         0.0100         0.0101         0.0100         0.0197           CT         0.0107         0.0096         0.0122         0.0094         0.0179           DE         0.0221         0.0192         0.0098         0.0202         0.0371           DC         0.0267         0.0289         0.0062         0.0103         0.0379           FL         0.0058         0.0053         0.0073         0.0063         0.0147           HI         0.0246         0.0206         0.0146         0.0155         0.0310           ID         0.0201         0.0173         0.0165         0.0176         0.0248           IL         0.0071         0.0063         0.0088         0.0021         0.0102           IN         0.0083         0.0076         0.0113         0.0092         0.0145           IA         0.0138         0.0129         0.0139         0.0165         0.0202           KS         0.0124         0.0103         0.0113         0.0048         0.0141           KY         0.0101         0.0083         0.0118         0.0156         0.0202						
CO         0.0113         0.0100         0.0101         0.0100         0.0195           CT         0.0107         0.0096         0.0122         0.0094         0.0179           DE         0.0221         0.0192         0.0098         0.0202         0.0371           DC         0.0267         0.0289         0.0062         0.0103         0.0379           FL         0.0058         0.0053         0.00079         0.0042         0.0096           GA         0.0072         0.0065         0.0073         0.0063         0.0141           HI         0.0246         0.0206         0.0146         0.0155         0.0310           ID         0.0201         0.0173         0.0165         0.0176         0.0248           IL         0.0071         0.0063         0.0088         0.0021         0.0120           IN         0.0083         0.0076         0.0113         0.0092         0.0145           IA         0.0138         0.0129         0.0139         0.0165         0.0202           KS         0.0124         0.0103         0.0113         0.0094         0.0127         0.0137         0.0184           KY         0.0101         0.0083 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td></t<>						
CT         0.0107         0.0096         0.0122         0.0094         0.0179           DE         0.0221         0.0192         0.0098         0.0202         0.0371           DC         0.0267         0.0289         0.0062         0.0103         0.0371           FL         0.0058         0.0053         0.0079         0.0042         0.0096           GA         0.0072         0.0065         0.0073         0.0063         0.0141           HI         0.0246         0.0206         0.0146         0.0155         0.0131           ID         0.0201         0.0173         0.0165         0.0176         0.0248           IL         0.0071         0.0063         0.0088         0.0021         0.0102           IN         0.0083         0.0076         0.0113         0.0092         0.0143           IA         0.0138         0.0129         0.0139         0.0165         0.0202           KS         0.0124         0.0103         0.0113         0.0048         0.0141           KY         0.0101         0.0083         0.0118         0.0139         0.0165         0.0202           KY         0.0101         0.0083         0.0113 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>						
DE						
DC						
FL         0.0058         0.0053         0.0079         0.0042         0.0096           GA         0.0072         0.0065         0.0073         0.0063         0.0147           HI         0.0246         0.0206         0.0146         0.0155         0.0310           ID         0.0201         0.0173         0.0165         0.0176         0.0248           IL         0.0071         0.0063         0.0088         0.0021         0.0102           IN         0.0083         0.0076         0.0113         0.0092         0.0145           IA         0.0138         0.0129         0.0139         0.0165         0.0202           KS         0.0124         0.0103         0.0113         0.0048         0.0141           KY         0.0101         0.0083         0.0118         0.0136         0.0344           KY         0.0101         0.0083         0.0118         0.0137         0.0198           ME         0.0185         0.0161         0.0192         0.0190         0.0251           MD         0.0087         0.0075         0.0068         0.0021         0.0122           MA         0.0087         0.0075         0.0066         0.0092 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>						
GA         0.0072         0.0065         0.0073         0.0063         0.0147           HI         0.0246         0.0206         0.0146         0.0155         0.0310           ID         0.0201         0.0173         0.0165         0.0176         0.0248           IL         0.0071         0.0063         0.0088         0.0021         0.0102           IN         0.0083         0.0076         0.0113         0.0092         0.0145           IA         0.0138         0.0129         0.0139         0.0165         0.0202           KS         0.0124         0.0103         0.0113         0.0048         0.0141           KY         0.0101         0.0083         0.0118         0.0136         0.0344           LA         0.0112         0.0094         0.0127         0.0137         0.0198           ME         0.0185         0.0161         0.0192         0.0190         0.0251           MD         0.0087         0.0078         0.0068         0.0021         0.0122           MA         0.0087         0.0078         0.0066         0.0092         0.0107           MN         0.01099         0.0092         0.0066         0.0092 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td></t<>						
HI						
ID						
IL						
IN						
IA         0.0138         0.0129         0.0139         0.0165         0.0202           KS         0.0124         0.0103         0.0113         0.0048         0.0141           KY         0.0101         0.0083         0.0118         0.0136         0.0344           LA         0.0112         0.0094         0.0127         0.0137         0.0198           ME         0.0185         0.0161         0.0192         0.0190         0.0251           MD         0.0087         0.0075         0.0068         0.0021         0.0122           MA         0.0087         0.0075         0.0068         0.0021         0.0122           MI         0.0075         0.0066         0.0061         0.0212           MI         0.0075         0.0062         0.0066         0.0092         0.0106           MI         0.0109         0.0092         0.0096         0.0056         0.0145           MS         0.0125         0.0108         0.0157         0.0195         0.0131           MT         0.0201         0.0168         0.0190         0.0265         0.0644           NE         0.0150         0.0129         0.0113         0.0116         0.0315						
KS         0.0124         0.0103         0.0113         0.0048         0.0141           KY         0.0101         0.0083         0.0118         0.0136         0.0344           LA         0.0112         0.0094         0.0127         0.0137         0.0198           ME         0.0185         0.0161         0.0192         0.0190         0.0251           MD         0.0087         0.0075         0.0068         0.0021         0.0122           MA         0.0087         0.0078         0.0046         0.0061         0.0212           MI         0.0075         0.0066         0.0092         0.0107           MI         0.0075         0.0066         0.0092         0.0107           MI         0.0075         0.0066         0.0092         0.0107           MI         0.0019         0.0092         0.0096         0.0056         0.0145           MS         0.0125         0.0108         0.0157         0.0195         0.0131           MG         0.0094         0.0079         0.0094         0.0046         0.0131           MT         0.0201         0.0168         0.0190         0.0265         0.0644           NE         0.0150 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
KY         0.0101         0.0083         0.0118         0.0136         0.0344           LA         0.0112         0.0094         0.0127         0.0137         0.0198           ME         0.0185         0.0161         0.0192         0.0190         0.0251           MD         0.0087         0.0075         0.0068         0.0021         0.0122           MA         0.0087         0.0078         0.0046         0.0061         0.0212           MI         0.0075         0.0062         0.0066         0.0092         0.0107           MI         0.0075         0.0062         0.0066         0.0092         0.0107           MN         0.0109         0.0092         0.0096         0.0056         0.0145           MS         0.0125         0.0108         0.0157         0.0195         0.0131           MO         0.0094         0.0079         0.0094         0.0046         0.0131           MT         0.0201         0.0168         0.0190         0.0265         0.0644           NE         0.0150         0.0129         0.0113         0.0116         0.0315           NV         0.0194         0.0170         0.0207         0.0199 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>						
LA         0.0112         0.0094         0.0127         0.0137         0.0198           ME         0.0185         0.0161         0.0192         0.0190         0.0251           MD         0.0087         0.0075         0.0068         0.0021         0.0122           MA         0.0087         0.0078         0.0046         0.0061         0.0212           MI         0.0075         0.0066         0.0092         0.0107           MN         0.0109         0.0092         0.0066         0.0092         0.0107           MS         0.0125         0.0108         0.0157         0.0195         0.0131           MO         0.0094         0.0079         0.0094         0.0046         0.0131           MT         0.0201         0.0168         0.0190         0.0265         0.0644           ME         0.0150         0.0129         0.0113         0.0116         0.0315           NV         0.0194         0.0170         0.0207         0.0199         0.0259           NH         0.0169         0.0151         0.0148         0.0197         0.0214           NJ         0.0091         0.0081         0.0079         0.0109         0.0158						
ME         0.0185         0.0161         0.0192         0.0190         0.0251           MD         0.0087         0.0075         0.0068         0.0021         0.0122           MA         0.0087         0.0078         0.0046         0.0061         0.0212           MI         0.0075         0.0062         0.0066         0.0092         0.0107           MI         0.0109         0.0092         0.0096         0.0056         0.0145           MS         0.0125         0.0108         0.0157         0.0195         0.0131           MO         0.0094         0.0079         0.0094         0.0046         0.0131           MT         0.0201         0.0168         0.0190         0.0265         0.0644           NE         0.0150         0.0129         0.0113         0.0116         0.0315           NV         0.0194         0.0170         0.0207         0.0199         0.0259           NH         0.0169         0.0151         0.0148         0.0197         0.0214           NJ         0.0069         0.0081         0.0079         0.0109         0.0158           NM         0.02226         0.0192         0.0216         0.0105 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td></t<>						
MD         0.0087         0.0075         0.0068         0.0021         0.0122           MA         0.0087         0.0078         0.0046         0.0061         0.0212           MI         0.0075         0.0062         0.0066         0.0092         0.0107           MN         0.0109         0.0092         0.0096         0.0056         0.0145           MS         0.0125         0.0108         0.0157         0.0195         0.0131           MO         0.0094         0.0079         0.0094         0.0046         0.0131           MT         0.0201         0.0168         0.0190         0.0265         0.0644           NE         0.0150         0.0129         0.0113         0.0116         0.0315           NV         0.0194         0.0170         0.0207         0.0199         0.0259           NH         0.0169         0.0151         0.0148         0.0197         0.0214           NJ         0.0091         0.0081         0.0079         0.0109         0.0158           NM         0.0226         0.0192         0.0216         0.0105         0.0294           NY         0.0055         0.0051         0.0060         0.0037 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>						
MA         0.0087         0.0078         0.0046         0.0061         0.0212           MI         0.0075         0.0062         0.0066         0.0092         0.0107           MN         0.0109         0.0092         0.0096         0.0056         0.0145           MS         0.0125         0.0108         0.0157         0.0195         0.0131           MO         0.0094         0.0079         0.0094         0.0046         0.0131           MT         0.0201         0.0168         0.0190         0.0265         0.0644           NE         0.0150         0.0129         0.0113         0.0116         0.0315           NV         0.0194         0.0170         0.0207         0.0199         0.0259           NH         0.0169         0.0151         0.0148         0.0197         0.0199         0.0259           NH         0.0169         0.0151         0.0148         0.0197         0.0118         0.0197         0.0199         0.0259           NY         0.0055         0.0051         0.0060         0.0037         0.0087           NC         0.0069         0.0060         0.0099         0.0089         0.0101           ND <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>						
MI         0.0075         0.0062         0.0066         0.0092         0.0107           MN         0.0109         0.0092         0.0096         0.0056         0.0145           MS         0.0125         0.0108         0.0157         0.0195         0.0131           MO         0.0094         0.0079         0.0094         0.0046         0.0131           MT         0.0201         0.0168         0.0190         0.0265         0.0644           NE         0.0150         0.0129         0.0113         0.0116         0.0315           NV         0.0194         0.0170         0.0207         0.0199         0.0259           NH         0.0169         0.0151         0.0148         0.0197         0.0214           NJ         0.0091         0.0081         0.0079         0.0109         0.0158           NM         0.0226         0.0192         0.0216         0.0105         0.0294           NY         0.0055         0.0051         0.0060         0.0037         0.087           NC         0.0069         0.0060         0.0099         0.0089         0.0101           ND         0.02066         0.0180         0.0217         0.0200 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>						
MN         0.0109         0.0092         0.0096         0.0056         0.0145           MS         0.0125         0.0108         0.0157         0.0195         0.0131           MO         0.0094         0.0079         0.0094         0.0046         0.0131           MT         0.0201         0.0168         0.0190         0.0265         0.0644           NE         0.0150         0.0129         0.0113         0.0116         0.0315           NV         0.0194         0.0170         0.0207         0.0199         0.0259           NH         0.0169         0.0151         0.0148         0.0197         0.0214           NJ         0.0091         0.0081         0.0079         0.0109         0.0158           NM         0.0226         0.0192         0.0216         0.0105         0.0294           NY         0.0055         0.0051         0.0600         0.0037         0.0087           NC         0.0069         0.0060         0.0099         0.0089         0.0101           ND         0.0206         0.0180         0.0217         0.0200         0.0241           OH         0.0065         0.0059         0.0095         0.0118 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>						
MS         0.0125         0.0108         0.0157         0.0195         0.0131           MO         0.0094         0.0079         0.0094         0.0046         0.0131           MT         0.0201         0.0168         0.0190         0.0265         0.0644           NE         0.0150         0.0129         0.0113         0.0116         0.0315           NV         0.0194         0.0170         0.0207         0.0199         0.0259           NH         0.0169         0.0151         0.0148         0.0197         0.0214           NJ         0.0091         0.0081         0.0079         0.0109         0.0158           NM         0.0226         0.0192         0.0216         0.0105         0.0294           NY         0.0055         0.0051         0.0060         0.0037         0.0087           NC         0.0069         0.0060         0.0099         0.0089         0.0101           ND         0.0226         0.0180         0.0217         0.0200         0.0241           OH         0.0065         0.0059         0.0095         0.0118         0.0205           OK         0.0112         0.0092         0.0152         0.0221 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>						
MO         0.0094         0.0079         0.0094         0.0046         0.0131           MT         0.0201         0.0168         0.0190         0.0265         0.0644           NE         0.0150         0.0129         0.0113         0.0116         0.0315           NV         0.0194         0.0170         0.0207         0.0199         0.0259           NH         0.0169         0.0151         0.0148         0.0197         0.0214           NJ         0.0091         0.0081         0.0079         0.0109         0.0158           NM         0.0226         0.0192         0.0216         0.0105         0.0294           NY         0.0055         0.0051         0.0060         0.0037         0.0087           NC         0.00699         0.0060         0.0099         0.0089         0.0101           ND         0.0206         0.0180         0.0217         0.0200         0.0241           OH         0.00655         0.0059         0.0095         0.0118         0.0205           OK         0.0112         0.0092         0.0152         0.0221         0.0129           OR         0.0444         0.0123         0.0114         0.0070         <						
MT         0.0201         0.0168         0.0190         0.0265         0.0644           NE         0.0150         0.0129         0.0113         0.0116         0.0315           NV         0.0194         0.0170         0.0207         0.0199         0.0259           NH         0.0169         0.0151         0.0148         0.0197         0.0214           NJ         0.0091         0.0081         0.0079         0.0109         0.0158           NM         0.0226         0.0192         0.0216         0.0105         0.0294           NY         0.0055         0.0051         0.0060         0.0037         0.0087           NC         0.0069         0.0060         0.0099         0.0089         0.0101           ND         0.0206         0.0180         0.0217         0.0200         0.0211           OH         0.0065         0.0059         0.0095         0.0118         0.0205           OK         0.0112         0.0092         0.0152         0.0221         0.0129           PA         0.0056         0.0050         0.0049         0.0051         0.0094           RI         0.0150         0.0119         0.0169         0.0172 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>						
NE         0.0150         0.0129         0.0113         0.0116         0.0315           NV         0.0194         0.0170         0.0207         0.0199         0.0259           NH         0.0169         0.0151         0.0148         0.0197         0.0214           NJ         0.0091         0.0081         0.0079         0.0109         0.0158           NM         0.0226         0.0192         0.0216         0.0105         0.0294           NY         0.0055         0.0051         0.0060         0.0037         0.0087           NC         0.0069         0.0060         0.0099         0.0089         0.0101           ND         0.0206         0.0180         0.0217         0.0200         0.0241           OH         0.0065         0.0059         0.0095         0.0118         0.0205           OK         0.0112         0.0092         0.0152         0.0221         0.0129           OR         0.0144         0.0123         0.0114         0.0070         0.0219           PA         0.0056         0.0050         0.0499         0.0051         0.0094           RI         0.0150         0.0119         0.0169         0.0172 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>						
NV         0.0194         0.0170         0.0207         0.0199         0.0259           NH         0.0169         0.0151         0.0148         0.0197         0.0214           NJ         0.0091         0.0081         0.0079         0.0109         0.0158           NM         0.0226         0.0192         0.0216         0.0105         0.0294           NY         0.0055         0.0051         0.0060         0.0037         0.0087           NC         0.0069         0.0060         0.0099         0.0089         0.0101           ND         0.0206         0.0180         0.0217         0.0200         0.0241           OH         0.0065         0.0059         0.0095         0.0118         0.0205           OK         0.0112         0.0092         0.0152         0.0221         0.0129           OR         0.0144         0.0123         0.0114         0.0070         0.0219           PA         0.0056         0.0050         0.0049         0.0051         0.0094           RI         0.0150         0.0119         0.0169         0.0172         0.0219           SC         0.0091         0.0080         0.0112         0.0144 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>						
NH         0.0169         0.0151         0.0148         0.0197         0.0214           NJ         0.0091         0.0081         0.0079         0.0109         0.0158           NM         0.0226         0.0192         0.0216         0.0105         0.0294           NY         0.0055         0.0051         0.0060         0.0037         0.0087           NC         0.0069         0.0060         0.0099         0.0089         0.0101           ND         0.0206         0.0180         0.0217         0.0200         0.0241           OH         0.0065         0.0059         0.0095         0.0118         0.0205           OK         0.0112         0.0092         0.0152         0.0221         0.0129           OR         0.0144         0.0123         0.0114         0.0070         0.0219           PA         0.0056         0.0050         0.0049         0.0051         0.0094           RI         0.0150         0.0119         0.0169         0.0172         0.0219           SC         0.0091         0.0080         0.0112         0.0144         0.0166           SD         0.0195         0.0171         0.0257         0.0261 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>						
NJ         0.0091         0.0081         0.0079         0.0109         0.0158           NM         0.0226         0.0192         0.0216         0.0105         0.0294           NY         0.0055         0.0051         0.0060         0.0037         0.0087           NC         0.0069         0.0060         0.0099         0.0089         0.0101           ND         0.0206         0.0180         0.0217         0.0200         0.0241           OH         0.0065         0.0059         0.0095         0.0118         0.0205           OK         0.0112         0.0092         0.0152         0.0221         0.0129           OR         0.0144         0.0123         0.0114         0.0070         0.0219           PA         0.0056         0.0050         0.0049         0.0051         0.0094           RI         0.0150         0.0119         0.0169         0.0172         0.0219           SC         0.0091         0.0080         0.0112         0.0144         0.0166           SD         0.0195         0.0171         0.0257         0.0261         0.0370           TN         0.0085         0.0076         0.0109         0.0066 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>						
NM         0.0226         0.0192         0.0216         0.0105         0.0294           NY         0.0055         0.0051         0.0060         0.0037         0.0087           NC         0.0069         0.0060         0.0099         0.0089         0.0101           ND         0.0206         0.0180         0.0217         0.0200         0.0241           OH         0.0065         0.0059         0.0095         0.0118         0.0205           OK         0.0112         0.0092         0.0152         0.0221         0.0129           OR         0.0144         0.0123         0.0114         0.0070         0.0219           PA         0.0056         0.0050         0.0049         0.0051         0.0094           RI         0.0150         0.0119         0.0169         0.0172         0.0219           SC         0.0091         0.0080         0.0112         0.0144         0.0106           SD         0.0195         0.0171         0.0257         0.0261         0.0370           TN         0.0085         0.0076         0.0109         0.0066         0.0119           TX         0.0044         0.0069         0.048         0.0079						
NY         0.0055         0.0051         0.0060         0.0037         0.0087           NC         0.0069         0.0060         0.0099         0.0089         0.0101           ND         0.0206         0.0180         0.0217         0.0200         0.0241           OH         0.0065         0.0059         0.0095         0.0118         0.0205           OK         0.0112         0.0092         0.0152         0.0221         0.0129           OR         0.0144         0.0123         0.0114         0.0070         0.0219           PA         0.0056         0.0050         0.0049         0.0051         0.0094           RI         0.0150         0.0119         0.0169         0.0172         0.0219           SC         0.0091         0.0080         0.0112         0.0144         0.0106           SD         0.0195         0.0171         0.0257         0.0261         0.0370           TN         0.0085         0.0076         0.0109         0.0066         0.0119           TX         0.0049         0.0044         0.0069         0.048         0.0079           UT         0.0154         0.0136         0.0169         0.0235						
NC         0.0069         0.0060         0.0099         0.0089         0.0101           ND         0.0206         0.0180         0.0217         0.0200         0.0241           OH         0.0065         0.0059         0.0095         0.0118         0.0205           OK         0.0112         0.0092         0.0152         0.0221         0.0129           OR         0.0144         0.0123         0.0114         0.0070         0.0219           PA         0.0056         0.0050         0.0049         0.0051         0.0094           RI         0.0150         0.0119         0.0169         0.0172         0.0219           SC         0.0091         0.0080         0.0112         0.0144         0.0106           SD         0.0195         0.0171         0.0257         0.0261         0.0370           TN         0.0085         0.0076         0.0109         0.0066         0.0119           TX         0.0049         0.0044         0.0069         0.048         0.0079           UT         0.0154         0.0136         0.0169         0.0235         0.0260           VA         0.0188         0.0161         0.0078         0.0055						
ND         0.0206         0.0180         0.0217         0.0200         0.0241           OH         0.0065         0.0059         0.0095         0.0118         0.0205           OK         0.0112         0.0092         0.0152         0.0221         0.0129           OR         0.0144         0.0123         0.0114         0.0070         0.0219           PA         0.0056         0.0050         0.0049         0.0051         0.0094           RI         0.0150         0.0119         0.0169         0.0172         0.0219           SC         0.0091         0.0080         0.0112         0.0144         0.0106           SD         0.0195         0.0171         0.0257         0.0261         0.0370           TN         0.0085         0.0076         0.0109         0.0066         0.0119           TX         0.0049         0.0044         0.0069         0.048         0.0079           UT         0.0154         0.0136         0.0169         0.0235         0.0260           VT         0.0188         0.0161         0.0078         0.0055         0.0210           VA         0.0070         0.0088         0.0072         0.0088						
OH         0.0065         0.0059         0.0095         0.0118         0.0205           OK         0.0112         0.0092         0.0152         0.0221         0.0129           OR         0.0144         0.0123         0.0114         0.0070         0.0219           PA         0.0056         0.0050         0.0049         0.0051         0.0094           RI         0.0150         0.0119         0.0169         0.0172         0.0219           SC         0.0091         0.0080         0.0112         0.0144         0.0106           SD         0.0195         0.0171         0.0257         0.0261         0.0370           TN         0.0085         0.0076         0.0109         0.0066         0.0119           TX         0.0049         0.0044         0.0069         0.048         0.0079           UT         0.0154         0.0136         0.0169         0.0235         0.0260           VT         0.0188         0.0161         0.0078         0.0055         0.0210           VA         0.0070         0.0062         0.0068         0.0062         0.0088           WV         0.0143         0.0126         0.0181         0.0055						
OK         0.0112         0.0092         0.0152         0.0221         0.0129           OR         0.0144         0.0123         0.0114         0.0070         0.0219           PA         0.0056         0.0050         0.0049         0.0051         0.0094           RI         0.0150         0.0119         0.0169         0.0172         0.0219           SC         0.0091         0.0080         0.0112         0.0144         0.0106           SD         0.0195         0.0171         0.0257         0.0261         0.0370           TN         0.0085         0.0076         0.0109         0.0066         0.0119           TX         0.0049         0.0044         0.0069         0.0048         0.0079           UT         0.0154         0.0136         0.0169         0.0235         0.0260           VT         0.0188         0.0161         0.0078         0.0055         0.0210           VA         0.0070         0.0062         0.0068         0.0062         0.0089           WA         0.0143         0.0126         0.0181         0.0078         0.0157           WI         0.0092         0.0076         0.0115         0.0055 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>						
OR         0.0144         0.0123         0.0114         0.0070         0.0219           PA         0.0056         0.0050         0.0049         0.0051         0.0094           RI         0.0150         0.0119         0.0169         0.0172         0.0219           SC         0.0091         0.0080         0.0112         0.0144         0.0106           SD         0.0195         0.0171         0.0257         0.0261         0.0370           TN         0.0085         0.0076         0.0109         0.0066         0.0119           TX         0.0049         0.0044         0.0069         0.0048         0.0079           UT         0.0154         0.0136         0.0169         0.0235         0.0260           VT         0.0188         0.0161         0.0078         0.0055         0.0210           VA         0.0070         0.0062         0.0068         0.0062         0.0099           WA         0.0102         0.0088         0.0072         0.0088         0.0157           WI         0.0092         0.0076         0.0115         0.0055         0.0110           WY         0.0259         0.0216         0.0077         0.0061 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>						
PA         0.0056         0.0050         0.0049         0.0051         0.0094           RI         0.0150         0.0119         0.0169         0.0172         0.0219           SC         0.0091         0.0080         0.0112         0.0144         0.0106           SD         0.0195         0.0171         0.0257         0.0261         0.0370           TN         0.0085         0.0076         0.0109         0.0066         0.0119           TX         0.0049         0.0044         0.0069         0.0048         0.0079           UT         0.0154         0.0136         0.0169         0.0235         0.0260           VT         0.0188         0.0161         0.0078         0.0055         0.0210           VA         0.0070         0.0062         0.0068         0.0062         0.0099           WA         0.0102         0.0088         0.0072         0.0088         0.0174           WV         0.0143         0.0126         0.0181         0.0055         0.0110           WY         0.0259         0.0216         0.0077         0.0061         0.0285						
RI         0.0150         0.0119         0.0169         0.0172         0.0219           SC         0.0091         0.0080         0.0112         0.0144         0.0106           SD         0.0195         0.0171         0.0257         0.0261         0.0370           TN         0.0085         0.0076         0.0109         0.0066         0.0119           TX         0.0049         0.0044         0.0069         0.0048         0.0079           UT         0.0154         0.0136         0.0169         0.0235         0.0260           VT         0.0188         0.0161         0.0078         0.0055         0.0210           VA         0.0070         0.0062         0.0068         0.0062         0.0099           WA         0.0102         0.0088         0.0072         0.0088         0.0174           WV         0.0143         0.0126         0.0181         0.0078         0.0157           WI         0.0092         0.0076         0.0115         0.0055         0.0110           WY         0.0259         0.0216         0.0077         0.0061         0.0285						
SC         0.0091         0.0080         0.0112         0.0144         0.0106           SD         0.0195         0.0171         0.0257         0.0261         0.0370           TN         0.0085         0.0076         0.0109         0.0066         0.0119           TX         0.0049         0.0044         0.0069         0.0048         0.0079           UT         0.0154         0.0136         0.0169         0.0235         0.0260           VT         0.0188         0.0161         0.0078         0.0055         0.0210           VA         0.0070         0.0062         0.0068         0.0062         0.0099           WA         0.0102         0.0088         0.0072         0.0088         0.0174           WV         0.0143         0.0126         0.0181         0.0078         0.0157           WI         0.0092         0.0076         0.0115         0.0055         0.0110           WY         0.0259         0.0216         0.0077         0.0061         0.0285						
SD         0.0195         0.0171         0.0257         0.0261         0.0370           TN         0.0085         0.0076         0.0109         0.0066         0.0119           TX         0.0049         0.0044         0.0069         0.0048         0.0079           UT         0.0154         0.0136         0.0169         0.0235         0.0260           VT         0.0188         0.0161         0.0078         0.0055         0.0210           VA         0.0070         0.0062         0.0068         0.0062         0.0099           WA         0.0102         0.0088         0.0072         0.0088         0.0174           WV         0.0143         0.0126         0.0181         0.0078         0.0157           WI         0.0092         0.0076         0.0115         0.0055         0.0110           WY         0.0259         0.0216         0.0077         0.0061         0.0285						
TN         0.0085         0.0076         0.0109         0.0066         0.0119           TX         0.0049         0.0044         0.0069         0.0048         0.0079           UT         0.0154         0.0136         0.0169         0.0235         0.0260           VT         0.0188         0.0161         0.0078         0.0055         0.0210           VA         0.0070         0.0062         0.0068         0.0062         0.0099           WA         0.0102         0.0088         0.0072         0.0088         0.0174           WV         0.0143         0.0126         0.0181         0.0078         0.0157           WI         0.0092         0.0076         0.0115         0.0055         0.0110           WY         0.0259         0.0216         0.0077         0.0061         0.0285						
TX         0.0049         0.0044         0.0069         0.0048         0.0079           UT         0.0154         0.0136         0.0169         0.0235         0.0260           VT         0.0188         0.0161         0.0078         0.0055         0.0210           VA         0.0070         0.0062         0.0068         0.0062         0.0099           WA         0.0102         0.0088         0.0072         0.0088         0.0174           WV         0.0143         0.0126         0.0181         0.0078         0.0157           WI         0.0092         0.0076         0.0115         0.0055         0.0110           WY         0.0259         0.0216         0.0077         0.0061         0.0285	TN			0.0109		
UT         0.0154         0.0136         0.0169         0.0235         0.0260           VT         0.0188         0.0161         0.0078         0.0055         0.0210           VA         0.0070         0.0062         0.0068         0.0062         0.0099           WA         0.0102         0.0088         0.0072         0.0088         0.0174           WV         0.0143         0.0126         0.0181         0.0078         0.0157           WI         0.0092         0.0076         0.0115         0.0055         0.0110           WY         0.0259         0.0216         0.0077         0.0061         0.0285	TX	0.0049		0.0069		
VA         0.0070         0.0062         0.0068         0.0062         0.0099           WA         0.0102         0.0088         0.0072         0.0088         0.0174           WV         0.0143         0.0126         0.0181         0.0078         0.0157           WI         0.0092         0.0076         0.0115         0.0055         0.0110           WY         0.0259         0.0216         0.0077         0.0061         0.0285	UT	0.0154	0.0136	0.0169	0.0235	0.0260
VA         0.0070         0.0062         0.0068         0.0062         0.0099           WA         0.0102         0.0088         0.0072         0.0088         0.0174           WV         0.0143         0.0126         0.0181         0.0078         0.0157           WI         0.0092         0.0076         0.0115         0.0055         0.0110           WY         0.0259         0.0216         0.0077         0.0061         0.0285	VT	0.0188	0.0161	0.0078	0.0055	0.0210
WV         0.0143         0.0126         0.0181         0.0078         0.0157           WI         0.0092         0.0076         0.0115         0.0055         0.0110           WY         0.0259         0.0216         0.0077         0.0061         0.0285	VA		0.0062	0.0068	0.0062	0.0099
WI         0.0092         0.0076         0.0115         0.0055         0.0110           WY         0.0259         0.0216         0.0077         0.0061         0.0285	WA			0.0072		0.0174
WY 0.0259 0.0216 0.0077 0.0061 0.0285	WV	0.0143	0.0126	0.0181	0.0078	0.0157
	WI	0.0092		0.0115	0.0055	
S 2012 A	WY	0.0259		0.0077	0.0061	0.0285

State	Standard Errors of the Proportion Married in the GQ Population for Alternative Methods						
Pactors   Pactors   Reimputation   Reimputation   Reimputation   AL   0.0066   0.0054   0.0060   0.0086   0.0064     AK   0.0206   0.0174   0.0400   0.0242   0.0289     AZ   0.0070   0.0066   0.0103   0.0068   0.0095     AR   0.0086   0.0073   0.0143   0.0073   0.0096     CA   0.0031   0.0030   0.0030   0.0042   0.0047     CO   0.0065   0.0057   0.0099   0.0065   0.0077     CT   0.0054   0.0048   0.0060   0.0069   0.0067     DE   0.0114   0.0095   0.0140   0.0126   0.0089     DC   0.0058   0.0054   0.0060   0.0077   0.0077     FL   0.0036   0.0031   0.0050   0.0063   0.0079     GA   0.0042   0.0038   0.0075   0.0043   0.0062     HI   0.0148   0.0123   0.0110   0.0187   0.0135     ID   0.0143   0.0121   0.0158   0.0126   0.0165     IL   0.0040   0.0037   0.0061   0.0080   0.0041     IN   0.0048   0.0041   0.0053   0.0026   0.0051     IA   0.0071   0.0059   0.0093   0.0086   0.0071     KS   0.0082   0.0070   0.0147   0.0157   0.0073     KY   0.0060   0.0051   0.0093   0.0033   0.0066     LA   0.0063   0.0057   0.0058   0.0033   0.0066     LA   0.0063   0.0057   0.0058   0.0039   0.0085     MB   0.0050   0.0045   0.0091   0.0136   0.0063     MA   0.0039   0.0031   0.0067   0.0063   0.0063     MB   0.0050   0.0045   0.0091   0.0136   0.0063     MA   0.0039   0.0035   0.0051   0.0037   0.0063     MB   0.0050   0.0045   0.0091   0.0136   0.0063     MB   0.0056   0.0047   0.0058   0.0037   0.0068     MB   0.0056   0.0047   0.0054   0.0068   0.0067     MS   0.0069   0.0066   0.0081   0.0070   0.0089     MT   0.0116   0.0100   0.0155   0.0181   0.0151     NF   0.0116   0.0100   0.0156   0.0181   0.0151     NF   0.0116   0.0100   0.0156   0.0181   0.0151     NF   0.0116   0.0100   0.0156   0.0181   0.0151     NF   0.0112   0.0093   0.0034   0.0065   0.0046   0.0057   0.0034     NF   0.0059   0.0060   0.0060   0.0060   0.0060   0.0060   0.0060     NB   0.0050   0.006	State	SDR with	SDR with	Ten Random	Five Random	SDR no GQ	
AL         0.0066         0.0054         0.0060         0.0086         0.0064           AK         0.0206         0.0174         0.0400         0.0242         0.0289           AZ         0.0070         0.0066         0.0103         0.0068         0.0095           AR         0.0086         0.0073         0.0143         0.0073         0.0042           CA         0.0031         0.0030         0.0042         0.0047           CO         0.0065         0.0057         0.0099         0.0065         0.0077           CT         0.0054         0.0048         0.0060         0.0069         0.0065         0.0077           DE         0.0114         0.0055         0.0140         0.0126         0.0089           DC         0.0058         0.0054         0.0060         0.0077         0.0077           GA         0.0042         0.0038         0.0050         0.0063         0.0077           GA         0.0042         0.0038         0.0075         0.0043         0.0062           HI         0.0148         0.0123         0.0110         0.0187         0.0165           IL         0.0043         0.0053         0.0061         0.008		Inflation	Inflation	Groups with	Groups with	Imputation	
AL         0.0066         0.0054         0.0060         0.0086         0.0064           AK         0.0206         0.0174         0.0400         0.0242         0.0289           AZ         0.0070         0.0066         0.0133         0.0008         0.0093           AR         0.0086         0.0073         0.0143         0.0073         0.0096           CA         0.0031         0.0030         0.0030         0.0065         0.0077           CO         0.0065         0.0057         0.0099         0.0065         0.0077           CT         0.0054         0.0048         0.0060         0.0069         0.0067           DE         0.0114         0.0095         0.0140         0.0126         0.0087           DC         0.0058         0.0054         0.0060         0.0077         0.0077           GA         0.0042         0.0038         0.0050         0.0063         0.0079           GA         0.0042         0.0038         0.0075         0.0043         0.0062           GA         0.0043         0.0123         0.0110         0.0187         0.0136           IL         0.0143         0.0121         0.0188         0.0126 <th< td=""><td></td><td>Factors</td><td>Factors</td><td>Reimputation</td><td>Reimputation</td><td></td></th<>		Factors	Factors	Reimputation	Reimputation		
AK         0.0206         0.0174         0.0400         0.0242         0.0289           AZ         0.0070         0.0066         0.0133         0.0068         0.0095           AR         0.0086         0.0073         0.0143         0.0073         0.0042           CA         0.0031         0.0030         0.0030         0.0042         0.0047           CO         0.0065         0.0057         0.0099         0.0065         0.0077           CT         0.0054         0.0048         0.0060         0.0067         0.0061           DC         0.0054         0.0064         0.0060         0.0077         0.0077           DC         0.0038         0.0054         0.0060         0.0077         0.0077           GA         0.0042         0.0038         0.0055         0.0043         0.0062           HI         0.0048         0.0031         0.0050         0.0043         0.0062           HI         0.0148         0.0123         0.0110         0.0187         0.0136           IL         0.0040         0.0037         0.0061         0.0080         0.0041           IN         0.0048         0.0041         0.0053         0.0026 <th< td=""><td></td><td>Research</td><td>Production</td><td></td><td></td><td></td></th<>		Research	Production				
AZ         0.0070         0.0066         0.0103         0.0068         0.0095           AR         0.0086         0.0073         0.0143         0.0073         0.0094           CA         0.0031         0.0030         0.0042         0.0047           CO         0.0065         0.0057         0.0099         0.0065         0.0077           CT         0.0054         0.0048         0.0060         0.0069         0.0065           DE         0.0114         0.0095         0.0140         0.0126         0.0089           DC         0.0058         0.0054         0.0060         0.0077         0.0077           FL         0.0036         0.0031         0.0050         0.0063         0.0077           GA         0.0042         0.0038         0.0075         0.0043         0.0062           HI         0.0148         0.0121         0.0158         0.0126         0.0155           IL         0.0041         0.0037         0.0061         0.0080         0.0041           IN         0.0048         0.0041         0.0053         0.0026         0.0051           IA         0.0071         0.0059         0.0033         0.0056         0.0051	AL			0.0060		0.0064	
AR         0.0086         0.0073         0.0143         0.0073         0.0096           CA         0.0031         0.0030         0.0042         0.0047           CO         0.0065         0.0057         0.0099         0.0065         0.0077           CT         0.0054         0.0048         0.0060         0.0069         0.0067           DE         0.0114         0.0095         0.0140         0.0126         0.0089           DC         0.0058         0.0054         0.0060         0.0077         0.0077           FL         0.0036         0.0031         0.0050         0.0063         0.0079           GA         0.0042         0.0038         0.0075         0.0043         0.0063           HI         0.0148         0.0123         0.0115         0.0155           IL         0.0040         0.037         0.0061         0.0080         0.0041           IN         0.0048         0.0041         0.0053         0.0026         0.0051           IA         0.0071         0.0059         0.0093         0.0086         0.0074           KS         0.0082         0.0070         0.0147         0.0157         0.008           KY <td>AK</td> <td>0.0206</td> <td>0.0174</td> <td>0.0400</td> <td>0.0242</td> <td>0.0289</td>	AK	0.0206	0.0174	0.0400	0.0242	0.0289	
CA         0.0031         0.0030         0.0042         0.0047           CO         0.0065         0.0057         0.0099         0.0065         0.0077           CT         0.0054         0.0048         0.0060         0.0069         0.0067           DE         0.0114         0.0095         0.0140         0.0126         0.0089           DC         0.0058         0.0054         0.0060         0.0077         0.0077           FL         0.0036         0.0031         0.0050         0.0063         0.0079           GA         0.0042         0.0038         0.0075         0.0043         0.0062           HI         0.0148         0.0123         0.0110         0.0187         0.0136           ID         0.0143         0.0121         0.0188         0.0126         0.015           IL         0.0040         0.0037         0.0061         0.0080         0.0041           IN         0.0048         0.0041         0.0053         0.0026         0.0055           IA         0.0071         0.0059         0.0093         0.0086         0.0074           KY         0.0060         0.0051         0.0093         0.0033         0.0063	AZ	0.0070	0.0066	0.0103	0.0068	0.0095	
CO         0.0065         0.0057         0.0099         0.0065         0.0077           CT         0.0054         0.0048         0.0060         0.0069         0.0067           DE         0.0114         0.0095         0.0140         0.0126         0.0089           DC         0.0058         0.0054         0.0060         0.0077         0.0077           FL         0.0036         0.0031         0.0050         0.0063         0.0077           GA         0.0042         0.0038         0.0075         0.0043         0.0062           HI         0.0148         0.0123         0.0110         0.0187         0.0136           ID         0.0143         0.0121         0.0158         0.0126         0.0165           IL         0.0040         0.0037         0.0061         0.0080         0.0041           IN         0.0048         0.0041         0.0053         0.0026         0.0055           IA         0.0071         0.0059         0.0093         0.0086         0.0074           KS         0.0082         0.0070         0.0147         0.0157         0.0096           KY         0.0060         0.0051         0.0093         0.0033 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>							
CT         0.0054         0.0048         0.0060         0.0069         0.0067           DE         0.0114         0.0095         0.0140         0.0126         0.0089           DC         0.0058         0.0054         0.0060         0.0077         0.0079           FL         0.0036         0.0031         0.0050         0.0063         0.0079           GA         0.0042         0.0038         0.0075         0.0043         0.0062           HI         0.0148         0.0121         0.0158         0.0126         0.0165           IL         0.0040         0.037         0.0061         0.0080         0.0041           IN         0.0048         0.0041         0.0053         0.0026         0.0055           IA         0.0071         0.0059         0.0093         0.0086         0.0074           KS         0.0082         0.0070         0.0147         0.0157         0.0093           KY         0.0060         0.0051         0.0093         0.0033         0.0066           LA         0.0063         0.0057         0.0058         0.0039         0.0085           ME         0.0121         0.0096         0.0131         0.0167	CA	0.0031	0.0030	0.0030	0.0042	0.0047	
DE			0.0057			0.0077	
DC         0.0058         0.0054         0.0060         0.0077         0.0077           FL         0.0036         0.0031         0.0050         0.0063         0.0077           GA         0.0042         0.0038         0.0075         0.0043         0.0062           HI         0.0148         0.0123         0.0110         0.0187         0.0136           ID         0.0143         0.0121         0.0158         0.0126         0.0165           IL         0.0040         0.0037         0.0061         0.0080         0.0041           IN         0.0048         0.0041         0.0053         0.0026         0.0055           IA         0.0071         0.0059         0.0093         0.0086         0.0074           KS         0.0082         0.0070         0.0147         0.0157         0.0093           KY         0.0060         0.0051         0.0093         0.0033         0.0066           LA         0.0063         0.0057         0.0058         0.0039         0.0085           ME         0.0121         0.0096         0.0131         0.0167         0.0166           MD         0.0055         0.0045         0.0091         0.0136 <td< td=""><td></td><td>0.0054</td><td></td><td></td><td></td><td></td></td<>		0.0054					
FL         0.0036         0.0031         0.0050         0.0063         0.0079           GA         0.0042         0.0038         0.0075         0.0043         0.0062           HI         0.0148         0.0123         0.0110         0.0187         0.0136           ID         0.0143         0.0121         0.0158         0.0126         0.0165           IL         0.0040         0.0037         0.0061         0.0080         0.0041           IN         0.0048         0.0041         0.0053         0.0026         0.0051           IA         0.0071         0.0059         0.0093         0.0086         0.0074           KS         0.0082         0.0070         0.0147         0.0157         0.0097           KY         0.0060         0.0051         0.0093         0.0033         0.0066           LA         0.0063         0.0057         0.0058         0.0039         0.0085           ME         0.0121         0.0096         0.0131         0.0167         0.0106           MD         0.0050         0.0045         0.0091         0.0136         0.0063           MI         0.0046         0.0038         0.0053         0.0082		<u> </u>					
GA         0.0042         0.0038         0.0075         0.0043         0.0062           HI         0.0148         0.0123         0.0110         0.0187         0.0136           ID         0.0143         0.0121         0.0158         0.0126         0.0165           IL         0.0040         0.0037         0.0061         0.0080         0.0041           IN         0.0048         0.0041         0.0053         0.0026         0.0055           IA         0.0071         0.0059         0.0093         0.0086         0.0071           KS         0.0082         0.0070         0.0147         0.0157         0.0097           KY         0.0060         0.0051         0.0093         0.0033         0.0066           LA         0.0063         0.0057         0.0058         0.0039         0.0085           ME         0.0121         0.0096         0.0131         0.0167         0.0166           MD         0.0050         0.0045         0.0091         0.0136         0.0063           MA         0.0039         0.0033         0.0051         0.0037         0.0063           MI         0.0046         0.0038         0.0053         0.0053		<u> </u>					
HI	FL	0.0036	0.0031	0.0050	0.0063	0.0079	
ID	GA	0.0042	0.0038	0.0075	0.0043	0.0062	
IL							
IN	ID	0.0143	0.0121		0.0126	0.0165	
IA         0.0071         0.0059         0.0093         0.0086         0.0074           KS         0.0082         0.0070         0.0147         0.0157         0.0097           KY         0.0060         0.0051         0.0093         0.0033         0.0066           LA         0.0063         0.0057         0.0058         0.0039         0.0085           ME         0.0121         0.0096         0.0131         0.0167         0.0106           MD         0.0050         0.0045         0.0091         0.0136         0.0063           MA         0.0039         0.0033         0.0051         0.0037         0.0063           MI         0.0046         0.0038         0.0058         0.0053         0.0082           MN         0.0055         0.0046         0.0059         0.0019         0.0057           MS         0.0069         0.0060         0.0081         0.0070         0.0089           MO         0.0056         0.0047         0.0054         0.0068         0.0094           MT         0.0116         0.0100         0.0156         0.0181         0.0156           NE         0.0111         0.0093         0.0188         0.0189 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>							
KS         0.0082         0.0070         0.0147         0.0157         0.0097           KY         0.0060         0.0051         0.0093         0.0033         0.0066           LA         0.0063         0.0057         0.0058         0.0039         0.0085           ME         0.0121         0.0096         0.0131         0.0167         0.0106           MD         0.0050         0.0045         0.0091         0.0136         0.0063           MA         0.0039         0.0033         0.0051         0.0037         0.0063           MI         0.0046         0.0038         0.0058         0.0053         0.0082           MN         0.0055         0.0046         0.0059         0.0019         0.0057           MS         0.0069         0.0060         0.0081         0.0070         0.0089           MO         0.0056         0.0047         0.0054         0.0068         0.0094           MT         0.0116         0.0100         0.0156         0.0181         0.0156           NE         0.0111         0.0093         0.0108         0.0089         0.0139           NV         0.0122         0.0109         0.0033         0.0118 <td< td=""><td>IN</td><td></td><td></td><td></td><td></td><td></td></td<>	IN						
KY         0.0060         0.0051         0.0093         0.0033         0.0066           LA         0.0063         0.0057         0.0058         0.0039         0.0085           ME         0.0121         0.0096         0.0131         0.0167         0.0106           MD         0.0050         0.0045         0.0091         0.0136         0.0063           MA         0.0039         0.0033         0.0051         0.0037         0.063           MI         0.0046         0.0038         0.0058         0.0053         0.0082           MN         0.0055         0.0046         0.0059         0.0019         0.0057           MS         0.0069         0.0060         0.0081         0.0070         0.0084           MT         0.0116         0.0100         0.0156         0.0181         0.0156           NE         0.0111         0.0093         0.0108         0.0089         0.0139           NV         0.0122         0.0109         0.0083         0.0118         0.0115           NB         0.0111         0.0093         0.0083         0.0118         0.0118           NB         0.0112         0.0109         0.0083         0.0118	IA	0.0071	0.0059	0.0093	0.0086		
LA         0.0063         0.0057         0.0058         0.0039         0.0085           ME         0.0121         0.0096         0.0131         0.0167         0.0106           MD         0.0050         0.0045         0.0091         0.0136         0.0063           MA         0.0039         0.0033         0.0051         0.0037         0.0063           MI         0.0046         0.0038         0.0058         0.0053         0.0063           MN         0.0055         0.0046         0.0059         0.0019         0.0057           MS         0.0069         0.0060         0.0081         0.0070         0.0089           MO         0.0056         0.0047         0.0054         0.0068         0.0094           MT         0.0116         0.0100         0.0156         0.0181         0.016         0.0181           NE         0.0111         0.00093         0.0108         0.0068         0.0094           NV         0.0122         0.0109         0.0083         0.0118         0.0111           NH         0.0095         0.0080         0.0066         0.0046         0.0082           NJ         0.0045         0.0039         0.0053 <th< td=""><td></td><td>0.0082</td><td></td><td></td><td></td><td></td></th<>		0.0082					
ME         0.0121         0.0096         0.0131         0.0167         0.0106           MD         0.0050         0.0045         0.0091         0.0136         0.0063           MA         0.0039         0.0033         0.0051         0.0037         0.0063           MI         0.0046         0.0038         0.0058         0.0053         0.0082           MN         0.0055         0.0046         0.0059         0.0019         0.0057           MS         0.0069         0.0060         0.0081         0.0070         0.0089           MO         0.0056         0.0047         0.0054         0.0068         0.0094           MT         0.0116         0.0100         0.0156         0.0181         0.0156           NE         0.0111         0.0093         0.0108         0.0089         0.0139           NV         0.0122         0.0109         0.0083         0.0118         0.0111           NH         0.0095         0.0080         0.0066         0.0046         0.0082           NJ         0.0045         0.0039         0.0053         0.0084         0.0061           NY         0.0029         0.0026         0.0054         0.0057 <td< td=""><td></td><td>0.0060</td><td>0.0051</td><td>0.0093</td><td>0.0033</td><td></td></td<>		0.0060	0.0051	0.0093	0.0033		
MD         0.0050         0.0045         0.0091         0.0136         0.0063           MA         0.0039         0.0033         0.0051         0.0037         0.0063           MI         0.0046         0.0038         0.0058         0.0053         0.0082           MN         0.0055         0.0046         0.0059         0.0019         0.0057           MS         0.0069         0.0060         0.0081         0.0070         0.0089           MO         0.0056         0.0047         0.0054         0.0068         0.0094           MT         0.0116         0.0100         0.0156         0.0181         0.0156           NE         0.0111         0.0093         0.0108         0.0089         0.0139           NV         0.0122         0.0109         0.0083         0.0118         0.0111           NH         0.0095         0.0080         0.0066         0.0044         0.0089           NJ         0.0045         0.0039         0.0053         0.0181         0.0111           NH         0.0095         0.0080         0.0066         0.0044         0.0061           NM         0.0130         0.0108         0.0137         0.0041 <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td></th<>							
MA         0.0039         0.0033         0.0051         0.0037         0.0063           MI         0.0046         0.0038         0.0058         0.0053         0.0082           MN         0.0055         0.0046         0.0059         0.0019         0.0057           MS         0.0069         0.0060         0.0081         0.0070         0.0089           MO         0.0056         0.0047         0.0054         0.0068         0.0094           MT         0.0116         0.0100         0.0156         0.0181         0.0156           NE         0.0111         0.0093         0.0108         0.0089         0.0139           NV         0.0122         0.0109         0.0083         0.0118         0.0111           NH         0.0095         0.0080         0.0066         0.0446         0.0082           NJ         0.0445         0.0039         0.0053         0.0084         0.0011           NM         0.0130         0.0108         0.0137         0.0041         0.0122           NY         0.0029         0.0026         0.054         0.0057         0.034           NC         0.0043         0.0036         0.0078         0.0056         0							
MI         0.0046         0.0038         0.0058         0.0053         0.0082           MN         0.0055         0.0046         0.0059         0.0019         0.0057           MS         0.0069         0.0060         0.0081         0.0070         0.0089           MO         0.0056         0.0047         0.0054         0.0068         0.0094           MT         0.0116         0.0100         0.0156         0.0181         0.0156           NE         0.0111         0.0093         0.0108         0.0089         0.0139           NV         0.0122         0.0109         0.0083         0.0118         0.0111           NH         0.0095         0.0080         0.0066         0.0046         0.0082           NJ         0.0045         0.0039         0.0053         0.0084         0.0061           NM         0.0130         0.0108         0.0137         0.0041         0.0122           NY         0.0029         0.0026         0.0054         0.0057         0.0034           NC         0.0043         0.0036         0.0078         0.0056         0.0052           ND         0.0123         0.0098         0.0185         0.0208 <td< td=""><td>MD</td><td>0.0050</td><td>0.0045</td><td>0.0091</td><td>0.0136</td><td>0.0063</td></td<>	MD	0.0050	0.0045	0.0091	0.0136	0.0063	
MN         0.0055         0.0046         0.0059         0.0019         0.0057           MS         0.0069         0.0060         0.0081         0.0070         0.0089           MO         0.0056         0.0047         0.0054         0.0068         0.0094           MT         0.0116         0.0100         0.0156         0.0181         0.0156           NE         0.0111         0.0093         0.0108         0.0089         0.0139           NV         0.0122         0.0109         0.0083         0.0118         0.0111           NH         0.0095         0.0080         0.0066         0.0046         0.0082           NJ         0.0045         0.0039         0.0053         0.0084         0.0061           NM         0.0130         0.0108         0.0137         0.0041         0.0122           NY         0.0029         0.0026         0.0054         0.0057         0.0034           NC         0.0043         0.0036         0.0078         0.0056         0.0052           ND         0.0123         0.0098         0.0185         0.0208         0.0087           OH         0.0039         0.0034         0.0065         0.0046 <td< td=""><td>MA</td><td>0.0039</td><td>0.0033</td><td>0.0051</td><td>0.0037</td><td>0.0063</td></td<>	MA	0.0039	0.0033	0.0051	0.0037	0.0063	
MS         0.0069         0.0060         0.0081         0.0070         0.0089           MO         0.0056         0.0047         0.0054         0.0068         0.0094           MT         0.0116         0.0100         0.0156         0.0181         0.0156           NE         0.0111         0.0093         0.0108         0.0089         0.0139           NV         0.0122         0.0109         0.0083         0.0118         0.0111           NH         0.0095         0.0080         0.0666         0.0046         0.0082           NJ         0.0045         0.0039         0.0053         0.0084         0.0061           NM         0.0130         0.0108         0.0137         0.0041         0.0122           NY         0.0029         0.0026         0.0054         0.0057         0.0034           NC         0.0043         0.0036         0.0078         0.0056         0.0052           ND         0.0123         0.0098         0.0185         0.0208         0.0087           OH         0.0039         0.0034         0.0065         0.0046         0.0046           OK         0.0078         0.0069         0.0167         0.0095 <td< td=""><td>MI</td><td></td><td></td><td></td><td></td><td></td></td<>	MI						
MO         0.0056         0.0047         0.0054         0.0068         0.0094           MT         0.0116         0.0100         0.0156         0.0181         0.0156           NE         0.0111         0.0093         0.0108         0.0089         0.0139           NV         0.0122         0.0109         0.0083         0.0118         0.0111           NH         0.0095         0.0080         0.0066         0.0046         0.0082           NJ         0.0045         0.0039         0.0053         0.0084         0.0061           NM         0.0130         0.0108         0.0137         0.0041         0.0122           NY         0.0029         0.0026         0.0054         0.0057         0.0034           NC         0.0043         0.0036         0.0078         0.0056         0.0052           ND         0.0123         0.0098         0.0185         0.0208         0.0087           OH         0.0039         0.034         0.0065         0.0046         0.0046           OK         0.0078         0.0069         0.0167         0.0095         0.0094           OR         0.0084         0.0066         0.0106         0.0074							
MT         0.0116         0.0100         0.0156         0.0181         0.0156           NE         0.0111         0.0093         0.0108         0.0089         0.0139           NV         0.0122         0.0109         0.0083         0.0118         0.0111           NH         0.0095         0.0080         0.0066         0.0046         0.0082           NJ         0.0045         0.0039         0.0053         0.0084         0.0061           NM         0.0130         0.0108         0.0137         0.0041         0.0122           NY         0.0029         0.0026         0.0054         0.0057         0.0034           NC         0.0043         0.0036         0.0078         0.0056         0.0057           ND         0.0123         0.0098         0.0185         0.0208         0.0087           OH         0.0039         0.0034         0.0065         0.0046         0.0067           OK         0.0078         0.0069         0.0167         0.0095         0.0094           OR         0.0084         0.0066         0.0106         0.0074         0.0098           PA         0.0031         0.0026         0.0013         0.0081 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>							
NE         0.0111         0.0093         0.0108         0.0089         0.0139           NV         0.0122         0.0109         0.0083         0.0118         0.0111           NH         0.0095         0.0080         0.0066         0.0046         0.0082           NJ         0.0045         0.0039         0.0053         0.0084         0.0061           NM         0.0130         0.0108         0.0137         0.0041         0.0122           NY         0.0029         0.0026         0.0054         0.0057         0.0034           NC         0.0043         0.0036         0.0078         0.0056         0.0052           ND         0.0123         0.0098         0.0185         0.0208         0.0087           OH         0.0039         0.0034         0.0065         0.0046         0.0046           OK         0.0078         0.0069         0.0167         0.0095         0.0094           OR         0.0084         0.0066         0.0106         0.0074         0.0098           PA         0.0031         0.0026         0.0024         0.0020         0.0033           RI         0.0071         0.0062         0.0131         0.0081 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>							
NV         0.0122         0.0109         0.0083         0.0118         0.0111           NH         0.0095         0.0080         0.0066         0.0046         0.0082           NJ         0.0045         0.0039         0.0053         0.0084         0.0061           NM         0.0130         0.0108         0.0137         0.0041         0.0122           NY         0.0029         0.0026         0.0054         0.0057         0.0034           NC         0.0043         0.0036         0.0078         0.0056         0.0052           ND         0.0123         0.0098         0.0185         0.0208         0.0087           OH         0.0039         0.0034         0.0065         0.0046         0.0046           OK         0.0078         0.0069         0.0167         0.0095         0.0094           OR         0.0084         0.0066         0.0106         0.0074         0.0098           PA         0.0031         0.0026         0.0131         0.0081         0.0020           SC         0.0055         0.0047         0.0070         0.0072         0.0056           SD         0.0112         0.0093         0.0138         0.0121 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>							
NH         0.0095         0.0080         0.0066         0.0046         0.0082           NJ         0.0045         0.0039         0.0053         0.0084         0.0061           NM         0.0130         0.0108         0.0137         0.0041         0.0122           NY         0.0029         0.0026         0.0054         0.0057         0.0034           NC         0.0043         0.0036         0.0078         0.0056         0.0052           ND         0.0123         0.0098         0.0185         0.0208         0.0087           OH         0.0039         0.0034         0.0065         0.0046         0.0046           OK         0.0078         0.0069         0.0167         0.0095         0.0094           OR         0.0084         0.0066         0.0106         0.0074         0.0098           PA         0.0031         0.0026         0.0024         0.0020         0.0033           RI         0.0071         0.0062         0.0131         0.0081         0.0062           SC         0.0055         0.0047         0.0070         0.0072         0.0056           SD         0.0112         0.0093         0.0138         0.0121 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>							
NJ         0.0045         0.0039         0.0053         0.0084         0.0061           NM         0.0130         0.0108         0.0137         0.0041         0.0122           NY         0.0029         0.0026         0.0054         0.0057         0.0034           NC         0.0043         0.0036         0.0078         0.0056         0.0052           ND         0.0123         0.0098         0.0185         0.0208         0.0087           OH         0.0039         0.0034         0.0065         0.0046         0.0046           OK         0.0078         0.0069         0.0167         0.0095         0.0094           OR         0.0084         0.0066         0.0106         0.0074         0.0098           PA         0.0031         0.0026         0.0024         0.0020         0.0033           RI         0.0071         0.0062         0.0131         0.0081         0.0062           SC         0.0055         0.0047         0.0070         0.0072         0.0056           SD         0.0112         0.0093         0.0138         0.0121         0.0099           TX         0.0035         0.0031         0.0052         0.0050 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>							
NM         0.0130         0.0108         0.0137         0.0041         0.0122           NY         0.0029         0.0026         0.0054         0.0057         0.0034           NC         0.0043         0.0036         0.0078         0.0056         0.0052           ND         0.0123         0.0098         0.0185         0.0208         0.0087           OH         0.0039         0.0034         0.0065         0.0046         0.0046           OK         0.0078         0.0069         0.0167         0.0095         0.0094           OR         0.0084         0.0066         0.0106         0.0074         0.0098           PA         0.0031         0.0026         0.0024         0.0020         0.0033           RI         0.0071         0.0062         0.0131         0.0081         0.0062           SC         0.0055         0.0047         0.0070         0.0072         0.0056           SD         0.0112         0.0093         0.0138         0.0121         0.0099           TX         0.0054         0.0046         0.0057         0.0019         0.0080           TX         0.0035         0.0031         0.0052         0.0050 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>							
NY         0.0029         0.0026         0.0054         0.0057         0.0034           NC         0.0043         0.0036         0.0078         0.0056         0.0052           ND         0.0123         0.0098         0.0185         0.0208         0.0087           OH         0.0039         0.0034         0.0065         0.0046         0.0046           OK         0.0078         0.0069         0.0167         0.0095         0.0094           OR         0.0084         0.0066         0.0106         0.0074         0.0098           PA         0.0031         0.0026         0.0024         0.0020         0.0033           RI         0.0071         0.0062         0.0131         0.0081         0.0062           SC         0.0055         0.0047         0.0070         0.0072         0.0056           SD         0.0112         0.0093         0.0138         0.0121         0.0099           TX         0.0054         0.0046         0.0057         0.0019         0.0080           TX         0.0035         0.0031         0.0052         0.0050         0.0047           UT         0.0108         0.0088         0.0073         0.0138 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>							
NC         0.0043         0.0036         0.0078         0.0056         0.0052           ND         0.0123         0.0098         0.0185         0.0208         0.0087           OH         0.0039         0.0034         0.0065         0.0046         0.0046           OK         0.0078         0.0069         0.0167         0.0095         0.0094           OR         0.0084         0.0066         0.0106         0.0074         0.0098           PA         0.0031         0.0026         0.0024         0.0020         0.0033           RI         0.0071         0.0062         0.0131         0.0081         0.0062           SC         0.0055         0.0047         0.0070         0.0072         0.0056           SD         0.0112         0.0093         0.0138         0.0121         0.0099           TN         0.0054         0.0046         0.0057         0.0019         0.0080           TX         0.0035         0.0031         0.0052         0.0050         0.0047           UT         0.0105         0.0090         0.0124         0.0083         0.0108           VT         0.0108         0.0088         0.0073         0.0138 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>							
ND         0.0123         0.0098         0.0185         0.0208         0.0087           OH         0.0039         0.0034         0.0065         0.0046         0.0046           OK         0.0078         0.0069         0.0167         0.0095         0.0094           OR         0.0084         0.0066         0.0106         0.0074         0.0098           PA         0.0031         0.0026         0.0024         0.0020         0.0033           RI         0.0071         0.0062         0.0131         0.0081         0.0062           SC         0.0055         0.0047         0.0070         0.0072         0.0056           SD         0.0112         0.0093         0.0138         0.0121         0.0099           TN         0.0054         0.0046         0.0057         0.0019         0.0080           TX         0.0035         0.0031         0.0052         0.0050         0.0047           UT         0.0105         0.0090         0.0124         0.0083         0.0108           VT         0.0108         0.0088         0.0073         0.0138         0.0091           VA         0.0048         0.0040         0.0050         0.0057 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>							
OH         0.0039         0.0034         0.0065         0.0046         0.0046           OK         0.0078         0.0069         0.0167         0.0095         0.0094           OR         0.0084         0.0066         0.0106         0.0074         0.0098           PA         0.0031         0.0026         0.0024         0.0020         0.0033           RI         0.0071         0.0062         0.0131         0.0081         0.0062           SC         0.0055         0.0047         0.0070         0.0072         0.0056           SD         0.0112         0.0093         0.0138         0.0121         0.0099           TN         0.0054         0.0046         0.0057         0.0019         0.0080           TX         0.0035         0.0031         0.0052         0.0050         0.0047           UT         0.0105         0.0090         0.0124         0.0083         0.0108           VT         0.0108         0.0088         0.0073         0.0138         0.0091           VA         0.0048         0.0040         0.0050         0.0057         0.0093           WA         0.0062         0.0053         0.0063         0.0066 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>							
OK         0.0078         0.0069         0.0167         0.0095         0.0094           OR         0.0084         0.0066         0.0106         0.0074         0.0098           PA         0.0031         0.0026         0.0024         0.0020         0.0033           RI         0.0071         0.0062         0.0131         0.0081         0.0062           SC         0.0055         0.0047         0.0070         0.0072         0.0056           SD         0.0112         0.0093         0.0138         0.0121         0.0099           TN         0.0054         0.0046         0.0057         0.0019         0.0080           TX         0.0035         0.0031         0.0052         0.0050         0.0047           UT         0.0105         0.0090         0.0124         0.0083         0.0108           VT         0.0108         0.0088         0.0073         0.0138         0.0091           VA         0.0048         0.0040         0.0050         0.0057         0.0093           WA         0.0062         0.0053         0.0063         0.0066         0.0084           WV         0.0096         0.0042         0.0085         0.0070 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>							
OR         0.0084         0.0066         0.0106         0.0074         0.0098           PA         0.0031         0.0026         0.0024         0.0020         0.0033           RI         0.0071         0.0062         0.0131         0.0081         0.0062           SC         0.0055         0.0047         0.0070         0.0072         0.0056           SD         0.0112         0.0093         0.0138         0.0121         0.0099           TN         0.0054         0.0046         0.0057         0.0019         0.0080           TX         0.0035         0.0031         0.0052         0.0050         0.0047           UT         0.0105         0.0090         0.0124         0.0083         0.0108           VT         0.0108         0.0088         0.0073         0.0138         0.0091           VA         0.0048         0.0040         0.0050         0.0057         0.0093           WA         0.0062         0.0053         0.0063         0.0066         0.0084           WV         0.0096         0.0085         0.0175         0.0081         0.0080           WI         0.0049         0.0042         0.0085         0.0070 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>							
PA         0.0031         0.0026         0.0024         0.0020         0.0033           RI         0.0071         0.0062         0.0131         0.0081         0.0062           SC         0.0055         0.0047         0.0070         0.0072         0.0056           SD         0.0112         0.0093         0.0138         0.0121         0.0099           TN         0.0054         0.0046         0.0057         0.0019         0.0080           TX         0.0035         0.0031         0.0052         0.0050         0.0047           UT         0.0105         0.0090         0.0124         0.0083         0.0108           VT         0.0108         0.0088         0.0073         0.0138         0.0091           VA         0.0048         0.0040         0.0050         0.0057         0.0093           WA         0.0062         0.0053         0.0063         0.0066         0.0084           WV         0.0096         0.0085         0.0175         0.0081         0.0080           WI         0.0049         0.0042         0.0085         0.0070         0.0055           WY         0.0175         0.0147         0.0264         0.0108 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>							
RI         0.0071         0.0062         0.0131         0.0081         0.0062           SC         0.0055         0.0047         0.0070         0.0072         0.0056           SD         0.0112         0.0093         0.0138         0.0121         0.0099           TN         0.0054         0.0046         0.0057         0.0019         0.0080           TX         0.0035         0.0031         0.0052         0.0050         0.0047           UT         0.0105         0.0090         0.0124         0.0083         0.0108           VT         0.0108         0.0088         0.0073         0.0138         0.0091           VA         0.0048         0.0040         0.0050         0.0057         0.0093           WA         0.0062         0.0053         0.0063         0.0066         0.0084           WV         0.0096         0.0085         0.0175         0.0081         0.0080           WI         0.0049         0.0042         0.0085         0.0070         0.0055           WY         0.0175         0.0147         0.0264         0.0108         0.0259							
SC         0.0055         0.0047         0.0070         0.0072         0.0056           SD         0.0112         0.0093         0.0138         0.0121         0.0099           TN         0.0054         0.0046         0.0057         0.0019         0.0080           TX         0.0035         0.0031         0.0052         0.0050         0.0047           UT         0.0105         0.0090         0.0124         0.0083         0.0108           VT         0.0108         0.0088         0.0073         0.0138         0.0091           VA         0.0048         0.0040         0.0050         0.0057         0.0093           WA         0.0062         0.0053         0.0063         0.0066         0.0084           WV         0.0096         0.0085         0.0175         0.0081         0.0080           WI         0.0049         0.0042         0.0085         0.0070         0.0055           WY         0.0175         0.0147         0.0264         0.0108         0.0259							
SD         0.0112         0.0093         0.0138         0.0121         0.0099           TN         0.0054         0.0046         0.0057         0.0019         0.0080           TX         0.0035         0.0031         0.0052         0.0050         0.0047           UT         0.0105         0.0090         0.0124         0.0083         0.0108           VT         0.0108         0.0088         0.0073         0.0138         0.0091           VA         0.0048         0.0040         0.0050         0.0057         0.0093           WA         0.0062         0.0053         0.0063         0.0066         0.0084           WV         0.0096         0.0085         0.0175         0.0081         0.0080           WI         0.0049         0.0042         0.0085         0.0070         0.0055           WY         0.0175         0.0147         0.0264         0.0108         0.0259							
TN         0.0054         0.0046         0.0057         0.0019         0.0080           TX         0.0035         0.0031         0.0052         0.0050         0.0047           UT         0.0105         0.0090         0.0124         0.0083         0.0108           VT         0.0108         0.0088         0.0073         0.0138         0.0091           VA         0.0048         0.0040         0.0050         0.0057         0.0093           WA         0.0062         0.0053         0.0063         0.0066         0.0084           WV         0.0096         0.0085         0.0175         0.0081         0.0080           WI         0.0049         0.0042         0.0085         0.0070         0.0055           WY         0.0175         0.0147         0.0264         0.0108         0.0259							
TX         0.0035         0.0031         0.0052         0.0050         0.0047           UT         0.0105         0.0090         0.0124         0.0083         0.0108           VT         0.0108         0.0088         0.0073         0.0138         0.0091           VA         0.0048         0.0040         0.0050         0.0057         0.0093           WA         0.0062         0.0053         0.0063         0.0066         0.0084           WV         0.0096         0.0085         0.0175         0.0081         0.0080           WI         0.0049         0.0042         0.0085         0.0070         0.0055           WY         0.0175         0.0147         0.0264         0.0108         0.0259							
UT         0.0105         0.0090         0.0124         0.0083         0.0108           VT         0.0108         0.0088         0.0073         0.0138         0.0091           VA         0.0048         0.0040         0.0050         0.0057         0.0093           WA         0.0062         0.0053         0.0063         0.0066         0.0084           WV         0.0096         0.0085         0.0175         0.0081         0.0080           WI         0.0049         0.0042         0.0085         0.0070         0.0055           WY         0.0175         0.0147         0.0264         0.0108         0.0259							
VT         0.0108         0.0088         0.0073         0.0138         0.0091           VA         0.0048         0.0040         0.0050         0.0057         0.0093           WA         0.0062         0.0053         0.0063         0.0066         0.0084           WV         0.0096         0.0085         0.0175         0.0081         0.0080           WI         0.0049         0.0042         0.0085         0.0070         0.0055           WY         0.0175         0.0147         0.0264         0.0108         0.0259							
VA         0.0048         0.0040         0.0050         0.0057         0.0093           WA         0.0062         0.0053         0.0063         0.0066         0.0084           WV         0.0096         0.0085         0.0175         0.0081         0.0080           WI         0.0049         0.0042         0.0085         0.0070         0.0055           WY         0.0175         0.0147         0.0264         0.0108         0.0259							
WA         0.0062         0.0053         0.0063         0.0066         0.0084           WV         0.0096         0.0085         0.0175         0.0081         0.0080           WI         0.0049         0.0042         0.0085         0.0070         0.0055           WY         0.0175         0.0147         0.0264         0.0108         0.0259							
WV         0.0096         0.0085         0.0175         0.0081         0.0080           WI         0.0049         0.0042         0.0085         0.0070         0.0055           WY         0.0175         0.0147         0.0264         0.0108         0.0259							
WI         0.0049         0.0042         0.0085         0.0070         0.0055           WY         0.0175         0.0147         0.0264         0.0108         0.0259							
WY 0.0175 0.0147 0.0264 0.0108 0.0259							
0 0010 4 1 0 1 0 1 0					0.0108	0.0259	

SC         0.0096         0.0087         0.0201         0.0145         0.0160           SD         0.0158         0.0138         0.0377         0.0194         0.0199           TN         0.0105         0.0095         0.0120         0.0048         0.0195           TX         0.0052         0.0047         0.0084         0.0127         0.0068           UT         0.0129         0.0111         0.0111         0.0097         0.0138           VT         0.0139         0.0125         0.0116         0.0146         0.0183           VA         0.0081         0.0072         0.0112         0.0121         0.0190           WA         0.0100         0.0087         0.0115         0.0168         0.0170           WV         0.0138         0.0128         0.0162         0.0256         0.0156           WI         0.0074         0.0066         0.0088         0.0086         0.0096	Standard Error of the Proportion White Alone in the GQ Population for Alternative Methods						
Research   Factors   Reimputation   Reimputation   Research   Production   Reimputation   Reim	State	SDR with	SDR with			SDR no GQ	
Research		Inflation	Inflation			Imputation	
AL         0.0121         0.0111         0.0089         0.0171         0.0195           AK         0.0239         0.0200         0.0299         0.0251         0.0300           AZ         0.0105         0.0101         0.0151         0.0109         0.0126           AR         0.0126         0.0111         0.0231         0.0154         0.0298           CA         0.0046         0.0041         0.0082         0.0101         0.0028           CO         0.0098         0.0089         0.0127         0.0143         0.0125           CO         0.0098         0.0087         0.0080         0.0140         0.0125           CT         0.0098         0.0087         0.0080         0.0140         0.0125           CT         0.0098         0.0087         0.0080         0.0140         0.0125           DC         0.0214         0.0222         0.0127         0.0305         0.0213           FL         0.0061         0.0053         0.0043         0.0039         0.0124           GA         0.0083         0.0075         0.0086         0.0103         0.0134           HI         0.02156         0.0131         0.0166         0.0156 <t< td=""><td></td><td>Factors</td><td>Factors</td><td>Reimputation</td><td>Reimputation</td><td></td></t<>		Factors	Factors	Reimputation	Reimputation		
AK         0.0239         0.0200         0.0299         0.0251         0.0350           AZ         0.0105         0.0101         0.0151         0.0109         0.0162           AR         0.0126         0.0111         0.0231         0.0154         0.0288           CA         0.0046         0.0041         0.0082         0.0101         0.0085           CO         0.0098         0.0089         0.0127         0.0143         0.0125           CT         0.0098         0.0087         0.0080         0.0140         0.0124           DE         0.0227         0.0203         0.0209         0.0346         0.0341           DC         0.0214         0.0222         0.0127         0.0305         0.0213           GA         0.0081         0.0053         0.0043         0.0039         0.0124           GA         0.0083         0.0075         0.0086         0.0103         0.0144           HI         0.0215         0.0182         0.0340         0.0352         0.0349           ID         0.0156         0.0131         0.0166         0.0157         0.0218           IL         0.0066         0.0063         0.0099         0.0130 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>							
AZ         0.0105         0.0101         0.0151         0.0109         0.0162           AR         0.0126         0.0111         0.0231         0.0154         0.0298           CA         0.0046         0.0041         0.0082         0.0101         0.0085           CO         0.0098         0.0089         0.0127         0.0143         0.0125           CT         0.0098         0.0087         0.0080         0.0140         0.0124           DE         0.0227         0.0203         0.0209         0.0346         0.0313           DC         0.0214         0.0222         0.0127         0.0305         0.0213           FL         0.0061         0.0053         0.0043         0.0039         0.0124           GA         0.0083         0.0075         0.0086         0.0103         0.0144           HI         0.0215         0.0182         0.0340         0.0352         0.0349           ID         0.0156         0.0131         0.0166         0.0157         0.028           IL         0.0066         0.0063         0.0099         0.0130         0.0118           IA         0.0087         0.0077         0.0208         0.0100							
AR         0.0126         0.0111         0.0231         0.0154         0.0298           CA         0.0046         0.0041         0.0082         0.0101         0.0085           CO         0.0098         0.0087         0.0080         0.0140         0.0125           CT         0.0098         0.0087         0.0080         0.0140         0.0124           DE         0.0227         0.0203         0.0209         0.0346         0.0341           DC         0.0214         0.0222         0.0127         0.0305         0.0213           FL         0.0061         0.0053         0.0043         0.0039         0.0124           GA         0.0083         0.0075         0.0086         0.0103         0.0144           HI         0.0215         0.0182         0.0340         0.0352         0.0349           ID         0.0156         0.0131         0.0166         0.0157         0.0218           IL         0.0066         0.063         0.0099         0.0130         0.0103           IN         0.0074         0.0067         0.0080         0.0100         0.0134           IA         0.0087         0.0077         0.0120         0.0040							
CA         0.0046         0.0041         0.0082         0.0101         0.0088           CO         0.0098         0.0089         0.0127         0.0143         0.0125           CT         0.0098         0.0087         0.0080         0.0140         0.0124           DE         0.0227         0.0203         0.0209         0.0346         0.0341           DC         0.0214         0.0222         0.0127         0.0305         0.0213           FL         0.0061         0.0053         0.0043         0.0039         0.0124           GA         0.0083         0.0075         0.0086         0.0103         0.0144           HI         0.0215         0.0182         0.0340         0.0352         0.0349           ID         0.0156         0.0131         0.0166         0.0157         0.0218           IL         0.0066         0.0063         0.0099         0.0130         0.0103           IN         0.0074         0.0067         0.0080         0.0100         0.0134           IA         0.0087         0.0077         0.0120         0.0040         0.0107           KY         0.0093         0.084         0.0107         0.0170							
CO         0.0098         0.0087         0.0080         0.0143         0.0125           CT         0.0098         0.0087         0.0080         0.0140         0.0124           DE         0.0227         0.0203         0.0209         0.0346         0.031           DC         0.0214         0.0222         0.0127         0.0305         0.0213           FL         0.0061         0.0253         0.0043         0.0039         0.0124           GA         0.0083         0.0075         0.0086         0.0103         0.0144           HI         0.0215         0.0182         0.0340         0.0352         0.0349           ID         0.0166         0.0131         0.0166         0.0157         0.0218           IL         0.0066         0.0063         0.0099         0.0130         0.0103           IN         0.0074         0.0067         0.0080         0.0100         0.0134           IA         0.0087         0.0077         0.0120         0.0040         0.0107           KS         0.0118         0.0099         0.0136         0.0074         0.0196           KY         0.0093         0.0084         0.0107         0.0170					0.0154	0.0298	
CT         0.0098         0.0087         0.0080         0.0140         0.0124           DE         0.0227         0.0203         0.0209         0.0346         0.0341           DC         0.0214         0.0222         0.0127         0.0305         0.0213           FL         0.0061         0.0053         0.0043         0.0039         0.0124           GA         0.0083         0.0075         0.0086         0.0103         0.0144           HI         0.0215         0.0182         0.0340         0.0352         0.0349           ID         0.0156         0.0131         0.0166         0.0157         0.0218           IL         0.0066         0.0063         0.0099         0.0130         0.0103           IN         0.0074         0.0067         0.0080         0.0100         0.0131           IA         0.0087         0.0077         0.0120         0.0040         0.0107           KY         0.0093         0.0084         0.0107         0.0170         0.0252           LA         0.0166         0.0095         0.0089         0.0081         0.0177           ME         0.0126         0.0103         0.0182         0.0141 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>							
DE		0.0098	0.0089		0.0143	0.0125	
DC		0.0098		0.0080	0.0140		
FL							
GA         0.0083         0.0075         0.0086         0.0103         0.0144           HI         0.0215         0.0182         0.0340         0.0352         0.0349           ID         0.0156         0.0131         0.0166         0.0157         0.0218           IL         0.0066         0.0063         0.0099         0.0130         0.0103           IN         0.0074         0.0067         0.0080         0.0100         0.0134           IA         0.0087         0.0077         0.0120         0.0040         0.0107           KS         0.0118         0.0099         0.0136         0.0074         0.0190           KY         0.0093         0.0084         0.0107         0.0170         0.0252           LA         0.0106         0.0095         0.0089         0.0081         0.0177           ME         0.0126         0.0103         0.0182         0.0141         0.0116           MD         0.0117         0.0109         0.0145         0.0113         0.0213           MA         0.0077         0.0066         0.0094         0.0126         0.0128           MI         0.0073         0.0065         0.0137         0.0190 <td< td=""><td>DC</td><td>0.0214</td><td>0.0222</td><td>0.0127</td><td>0.0305</td><td>0.0213</td></td<>	DC	0.0214	0.0222	0.0127	0.0305	0.0213	
HI							
ID				0.0086	0.0103	0.0144	
IL							
IN						0.0218	
IA         0.0087         0.0077         0.0120         0.0040         0.0107           KS         0.0118         0.0099         0.0136         0.0074         0.0190           KY         0.0093         0.0084         0.0107         0.0170         0.0252           LA         0.0106         0.0095         0.0089         0.0081         0.0177           ME         0.0126         0.0103         0.0182         0.0141         0.0116           MD         0.0117         0.0109         0.0145         0.0113         0.0213           MA         0.0077         0.0066         0.0094         0.0126         0.0128           MI         0.0073         0.0065         0.0137         0.0190         0.0097           MN         0.0077         0.0066         0.0113         0.0082         0.0108           MS         0.0133         0.0121         0.0191         0.0150         0.0209           MO         0.0082         0.0075         0.0098         0.0139         0.0242           MT         0.0158         0.0141         0.0164         0.0141         0.0164           NV         0.0181         0.0164         0.0227         0.0257 <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td></th<>							
KS         0.0118         0.0099         0.0136         0.0074         0.0190           KY         0.0093         0.0084         0.0107         0.0170         0.0252           LA         0.0106         0.0095         0.0089         0.0081         0.0177           ME         0.0126         0.0103         0.0182         0.0141         0.0113         0.0213           MD         0.0117         0.0109         0.0145         0.0113         0.0213           MA         0.0077         0.0066         0.0094         0.0126         0.0128           MI         0.0073         0.0065         0.0137         0.0190         0.0097           MN         0.0077         0.0066         0.0113         0.0082         0.0106           MS         0.0133         0.0121         0.0191         0.0159         0.0209           MO         0.0082         0.0075         0.0098         0.0139         0.0242           MT         0.0158         0.0141         0.0164         0.0141         0.0578           NE         0.0113         0.0101         0.0066         0.0074         0.0181           NV         0.0181         0.0164         0.0227 <th< td=""><td></td><td></td><td></td><td></td><td></td><td>0.0134</td></th<>						0.0134	
KY         0.0093         0.0084         0.0107         0.0170         0.0252           LA         0.0106         0.0095         0.0089         0.0081         0.0177           ME         0.0126         0.0103         0.0182         0.0141         0.0113         0.0213           MD         0.0117         0.0109         0.0145         0.0113         0.0213           MA         0.0077         0.0066         0.0037         0.0190         0.0097           MN         0.0073         0.0065         0.0137         0.0190         0.0097           MS         0.0133         0.0121         0.0191         0.0150         0.0209           MO         0.0082         0.0075         0.0098         0.0139         0.0224           MT         0.0158         0.0141         0.0164         0.0141         0.0578           NE         0.0113         0.0101         0.0066         0.0074         0.0181           NV         0.0181         0.0164         0.0227         0.0257         0.0226           NH         0.0097         0.0085         0.0139         0.0107         0.0143           NM         0.0227         0.0253         0.017			0.0077	0.0120	0.0040		
LA         0.0106         0.0095         0.0089         0.0081         0.0177           ME         0.0126         0.0103         0.0182         0.0141         0.0116           MD         0.0117         0.0109         0.0145         0.0113         0.0213           MA         0.0077         0.0066         0.0094         0.0126         0.0128           MI         0.0073         0.0065         0.0137         0.0190         0.0097           MN         0.0077         0.0066         0.0113         0.0082         0.0106           MS         0.0133         0.0121         0.0191         0.0150         0.0209           MO         0.0082         0.0075         0.0098         0.0139         0.0242           MT         0.0158         0.0141         0.0164         0.0141         0.0164         0.0141         0.0578           NE         0.0113         0.0101         0.0066         0.0074         0.0181           NV         0.0181         0.0164         0.0227         0.0257         0.0226           NH         0.0097         0.0085         0.0139         0.0107         0.0143           NJ         0.0083         0.0073 <td< td=""><td></td><td>0.0118</td><td>0.0099</td><td>0.0136</td><td></td><td>0.0190</td></td<>		0.0118	0.0099	0.0136		0.0190	
ME         0.0126         0.0103         0.0182         0.0141         0.0116           MD         0.0117         0.0109         0.0145         0.0113         0.0213           MA         0.0077         0.0066         0.0094         0.0126         0.0128           MI         0.0073         0.0065         0.0137         0.0190         0.0097           MN         0.0077         0.0066         0.0113         0.0190         0.0098           MS         0.0133         0.0121         0.0191         0.0150         0.0209           MO         0.0082         0.0075         0.0098         0.0139         0.0242           MT         0.0158         0.0141         0.0164         0.0141         0.0578           NE         0.0113         0.0101         0.0066         0.0074         0.0181           NV         0.0181         0.0164         0.0227         0.0257         0.0226           NH         0.0097         0.0085         0.0139         0.0107         0.0143           NJ         0.0083         0.0073         0.0077         0.0129         0.0136           NY         0.0056         0.0050         0.0107         0.0051 <td< td=""><td>KY</td><td></td><td></td><td></td><td></td><td>0.0252</td></td<>	KY					0.0252	
MD         0.0117         0.0109         0.0145         0.0113         0.0213           MA         0.0077         0.0066         0.0094         0.0126         0.0128           MI         0.0073         0.0065         0.0137         0.0190         0.0097           MN         0.0077         0.0066         0.0113         0.0082         0.0106           MS         0.0133         0.0121         0.0191         0.0150         0.0209           MO         0.0082         0.0075         0.0098         0.0139         0.0242           MT         0.0158         0.0141         0.0164         0.0141         0.0578           NE         0.0113         0.0101         0.0066         0.0074         0.0181           NV         0.0181         0.0164         0.0227         0.0257         0.0226           NH         0.0097         0.0085         0.0139         0.0107         0.0143           NJ         0.0083         0.0073         0.0077         0.0129         0.036           NY         0.0083         0.0073         0.0077         0.0129         0.0136           NC         0.0076         0.0050         0.0107         0.0051	LA	0.0106	0.0095	0.0089	0.0081	0.0177	
MA         0.0077         0.0066         0.0094         0.0126         0.0128           MI         0.0073         0.0065         0.0137         0.0190         0.0097           MN         0.0077         0.0066         0.0113         0.0082         0.0106           MS         0.0133         0.0121         0.0191         0.0150         0.0209           MO         0.0082         0.0075         0.0098         0.0139         0.0242           MT         0.0158         0.0141         0.0164         0.0141         0.0578           NE         0.0113         0.0101         0.0066         0.0074         0.0181           NV         0.0181         0.0164         0.0227         0.0257         0.0226           NH         0.0097         0.0085         0.0139         0.0107         0.0143           NJ         0.0083         0.0073         0.0077         0.0129         0.0136           NY         0.0083         0.0073         0.0077         0.0129         0.0136           NY         0.0056         0.0050         0.0107         0.0051         0.008           NC         0.0076         0.0069         0.0098         0.0105	ME	0.0126	0.0103	0.0182	0.0141	0.0116	
MI         0.0073         0.0065         0.0137         0.0190         0.0097           MN         0.0077         0.0066         0.0113         0.0082         0.0106           MS         0.0133         0.0121         0.0191         0.0150         0.0209           MO         0.0082         0.0075         0.0098         0.0139         0.0242           MT         0.0158         0.0141         0.0164         0.0141         0.0578           NE         0.0113         0.0101         0.0066         0.0074         0.0181           NV         0.0181         0.0164         0.0227         0.0257         0.0226           NH         0.0097         0.0085         0.0139         0.0107         0.0143           NJ         0.0083         0.0073         0.0077         0.0129         0.0136           NY         0.0056         0.0050         0.0107         0.0051         0.082           NY         0.0056         0.0050         0.0107         0.0051         0.0082           NC         0.0076         0.0069         0.0098         0.0105         0.0128           ND         0.0162         0.0139         0.0120         0.0157	MD	0.0117	0.0109	0.0145	0.0113	0.0213	
MN         0.0077         0.0066         0.0113         0.0082         0.0106           MS         0.0133         0.0121         0.0191         0.0150         0.0209           MO         0.0082         0.0075         0.0098         0.0139         0.0242           MT         0.0158         0.0141         0.0164         0.0141         0.0578           NE         0.0113         0.0101         0.0666         0.0074         0.0181           NV         0.0181         0.0164         0.0227         0.0257         0.0226           NH         0.0097         0.0085         0.0139         0.0107         0.0143           NI         0.0083         0.0073         0.0077         0.0129         0.0136           NM         0.0227         0.0213         0.0279         0.0254         0.0392           NY         0.0056         0.0050         0.0107         0.0051         0.0082           NC         0.0076         0.0069         0.0098         0.0105         0.0128           ND         0.0162         0.0139         0.0120         0.0157         0.0164           OR         0.0162         0.0139         0.0120         0.0157 <td< td=""><td>MA</td><td>0.0077</td><td>0.0066</td><td>0.0094</td><td>0.0126</td><td>0.0128</td></td<>	MA	0.0077	0.0066	0.0094	0.0126	0.0128	
MS         0.0133         0.0121         0.0191         0.0150         0.0209           MO         0.0082         0.0075         0.0098         0.0139         0.0242           MT         0.0158         0.0141         0.0164         0.0141         0.0578           NE         0.0113         0.0101         0.0066         0.0074         0.0181           NV         0.0181         0.0164         0.0227         0.0257         0.0226           NH         0.0097         0.0085         0.0139         0.0107         0.0143           NJ         0.0083         0.0073         0.0077         0.0129         0.0136           NM         0.0227         0.0213         0.0279         0.0254         0.0392           NY         0.0056         0.0050         0.0107         0.0051         0.0082           NC         0.0076         0.0069         0.0098         0.0105         0.0128           ND         0.0162         0.0139         0.0120         0.0157         0.0164           OH         0.0064         0.0057         0.0127         0.0120         0.0201           OK         0.0109         0.0095         0.0191         0.0202 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>							
MO         0.0082         0.0075         0.0098         0.0139         0.0242           MT         0.0158         0.0141         0.0164         0.0141         0.0578           NE         0.0113         0.0101         0.0066         0.0074         0.0181           NV         0.0181         0.0164         0.0227         0.0257         0.0226           NH         0.0097         0.0085         0.0139         0.0107         0.0143           NJ         0.0083         0.0073         0.0077         0.0129         0.0136           NM         0.0227         0.0213         0.0279         0.0254         0.0392           NY         0.0056         0.0050         0.0107         0.0051         0.0082           NC         0.0076         0.0069         0.0098         0.0105         0.0128           ND         0.0162         0.0139         0.0120         0.0157         0.0164           OH         0.0064         0.0057         0.0127         0.0120         0.0201           OK         0.0109         0.0095         0.0191         0.0202         0.0146           OR         0.0116         0.0098         0.0114         0.0082 <td< td=""><td></td><td>0.0077</td><td></td><td></td><td></td><td></td></td<>		0.0077					
MT         0.0158         0.0141         0.0164         0.0141         0.0578           NE         0.0113         0.0101         0.0066         0.0074         0.0181           NV         0.0181         0.0164         0.0227         0.0257         0.0226           NH         0.0097         0.0085         0.0139         0.0107         0.0143           NJ         0.0083         0.0073         0.0077         0.0129         0.0136           NM         0.0227         0.0213         0.0279         0.0254         0.0392           NY         0.0056         0.0050         0.0107         0.0051         0.0082           NC         0.0076         0.0069         0.0098         0.0105         0.0128           ND         0.0162         0.0139         0.0120         0.0157         0.0164           OH         0.0064         0.0057         0.0127         0.0120         0.0201           OK         0.0109         0.0095         0.0191         0.0202         0.0146           OR         0.0116         0.0098         0.0114         0.0082         0.0150           RI         0.0141         0.0129         0.0215         0.0102 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>							
NE         0.0113         0.0101         0.0066         0.0074         0.0181           NV         0.0181         0.0164         0.0227         0.0257         0.0226           NH         0.0097         0.0085         0.0139         0.0107         0.0143           NJ         0.0083         0.0073         0.0077         0.0129         0.0136           NM         0.0227         0.0213         0.0279         0.0254         0.0392           NY         0.0056         0.0050         0.0107         0.0051         0.0082           NC         0.0076         0.0069         0.0098         0.0105         0.0128           ND         0.0162         0.0139         0.0120         0.0157         0.0164           OH         0.0064         0.0057         0.0127         0.0120         0.0201           OK         0.0109         0.0095         0.0191         0.0202         0.0146           OR         0.0116         0.0098         0.0114         0.0082         0.0150           PA         0.0053         0.0049         0.0082         0.0070         0.0165           SC         0.0096         0.0087         0.0215         0.0102 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>							
NV         0.0181         0.0164         0.0227         0.0257         0.0226           NH         0.0097         0.0085         0.0139         0.0107         0.0143           NJ         0.0083         0.0073         0.0077         0.0129         0.0136           NM         0.0227         0.0213         0.0279         0.0254         0.0392           NY         0.0056         0.0050         0.0107         0.0051         0.0082           NC         0.0076         0.0069         0.0098         0.0105         0.0128           ND         0.0162         0.0139         0.0120         0.0157         0.0164           OH         0.0064         0.0057         0.0127         0.0120         0.0201           OK         0.0109         0.0095         0.0191         0.0202         0.0146           OR         0.0116         0.0098         0.0114         0.0082         0.0150           PA         0.0053         0.0049         0.0082         0.0070         0.0105           RI         0.0141         0.0129         0.0215         0.0102         0.0253           SC         0.0096         0.0087         0.0201         0.0145 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>							
NH         0.0097         0.0085         0.0139         0.0107         0.0143           NJ         0.0083         0.0073         0.0077         0.0129         0.0136           NM         0.0227         0.0213         0.0279         0.0254         0.0392           NY         0.0056         0.0050         0.0107         0.0051         0.0082           NC         0.0076         0.0069         0.0098         0.0105         0.0128           ND         0.0162         0.0139         0.0120         0.0157         0.0164           OH         0.0064         0.0057         0.0127         0.0120         0.0201           OK         0.0109         0.0095         0.0191         0.0202         0.0146           OR         0.0116         0.0098         0.0114         0.0082         0.0150           PA         0.0053         0.0049         0.0082         0.0070         0.0105           RI         0.0141         0.0129         0.0215         0.0102         0.0253           SC         0.0096         0.0087         0.0201         0.0145         0.0160           SD         0.0158         0.0138         0.0377         0.0194 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>							
NJ         0.0083         0.0073         0.0077         0.0129         0.0136           NM         0.0227         0.0213         0.0279         0.0254         0.0392           NY         0.0056         0.0050         0.0107         0.0051         0.0082           NC         0.0076         0.0069         0.0098         0.0105         0.0128           ND         0.0162         0.0139         0.0120         0.0157         0.0164           OH         0.0064         0.0057         0.0127         0.0120         0.0201           OK         0.0109         0.0095         0.0191         0.0202         0.0146           OR         0.0116         0.0098         0.0114         0.0082         0.0150           PA         0.0053         0.0049         0.0082         0.0070         0.0105           RI         0.0141         0.0129         0.0215         0.0102         0.0253           SC         0.0096         0.0087         0.0201         0.0145         0.0160           SD         0.0158         0.0138         0.0377         0.0194         0.0199           TX         0.0052         0.0047         0.0084         0.0127 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>							
NM         0.0227         0.0213         0.0279         0.0254         0.0392           NY         0.0056         0.0050         0.0107         0.0051         0.0082           NC         0.0076         0.0069         0.0098         0.0105         0.0128           ND         0.0162         0.0139         0.0120         0.0157         0.0164           OH         0.0064         0.0057         0.0127         0.0120         0.0201           OK         0.0109         0.0095         0.0191         0.0202         0.0146           OR         0.0116         0.0098         0.0114         0.0082         0.0150           PA         0.0053         0.0049         0.0082         0.0070         0.0105           RI         0.0141         0.0129         0.0215         0.0102         0.0253           SC         0.0096         0.0087         0.0201         0.0145         0.0160           SD         0.0158         0.0138         0.0377         0.0194         0.0199           TX         0.0052         0.0047         0.0084         0.0127         0.0068           UT         0.0129         0.0111         0.0111         0.0146 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>							
NY         0.0056         0.0050         0.0107         0.0051         0.0082           NC         0.0076         0.0069         0.0098         0.0105         0.0128           ND         0.0162         0.0139         0.0120         0.0157         0.0164           OH         0.0064         0.0057         0.0127         0.0120         0.0201           OK         0.0109         0.0095         0.0191         0.0202         0.0146           OR         0.0116         0.0098         0.0114         0.0082         0.0150           PA         0.0053         0.0049         0.0082         0.0070         0.0105           RI         0.0141         0.0129         0.0215         0.0102         0.0253           SC         0.0096         0.0087         0.0201         0.0145         0.0160           SD         0.0158         0.0138         0.0377         0.0194         0.0199           TX         0.0052         0.0047         0.0084         0.0127         0.0068           UT         0.0129         0.0111         0.0111         0.0111         0.0127         0.018           VA         0.0139         0.0125         0.0116				0.0077			
NC         0.0076         0.0069         0.0098         0.0105         0.0128           ND         0.0162         0.0139         0.0120         0.0157         0.0164           OH         0.0064         0.0057         0.0127         0.0120         0.0201           OK         0.0109         0.0095         0.0191         0.0202         0.0146           OR         0.0116         0.0098         0.0114         0.0082         0.0150           PA         0.0053         0.0049         0.0082         0.0070         0.0105           RI         0.0141         0.0129         0.0215         0.0102         0.0253           SC         0.0096         0.0087         0.0201         0.0145         0.0160           SD         0.0158         0.0138         0.0377         0.0194         0.0199           TX         0.0052         0.0047         0.0084         0.0127         0.0068           UT         0.0129         0.0111         0.0111         0.0097         0.0138           VA         0.0139         0.0125         0.0116         0.0146         0.0183           VA         0.0081         0.0072         0.0112         0.0121 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>							
ND         0.0162         0.0139         0.0120         0.0157         0.0164           OH         0.0064         0.0057         0.0127         0.0120         0.0201           OK         0.0109         0.0095         0.0191         0.0202         0.0146           OR         0.0116         0.0098         0.0114         0.0082         0.0150           PA         0.0053         0.0049         0.0082         0.0070         0.0105           RI         0.0141         0.0129         0.0215         0.0102         0.0253           SC         0.0096         0.0087         0.0201         0.0145         0.0160           SD         0.0158         0.0138         0.0377         0.0194         0.0199           TX         0.0105         0.0095         0.0120         0.0048         0.0195           TX         0.0052         0.0047         0.0084         0.0127         0.0068           UT         0.0129         0.0111         0.0111         0.0097         0.0138           VA         0.0139         0.0125         0.0116         0.0146         0.0183           VA         0.0081         0.0072         0.0112         0.0121 <td< td=""><td></td><td></td><td></td><td></td><td>0.0051</td><td></td></td<>					0.0051		
OH         0.0064         0.0057         0.0127         0.0120         0.0201           OK         0.0109         0.0095         0.0191         0.0202         0.0146           OR         0.0116         0.0098         0.0114         0.0082         0.0150           PA         0.0053         0.0049         0.0082         0.0070         0.0105           RI         0.0141         0.0129         0.0215         0.0102         0.0253           SC         0.0096         0.0087         0.0201         0.0145         0.0160           SD         0.0158         0.0138         0.0377         0.0194         0.0199           TN         0.0105         0.0095         0.0120         0.0048         0.0195           TX         0.0052         0.0047         0.0084         0.0127         0.0068           UT         0.0129         0.0111         0.0111         0.0097         0.0138           VA         0.0139         0.0125         0.0116         0.0146         0.0183           VA         0.0081         0.0072         0.0112         0.0121         0.0190           WA         0.0100         0.0087         0.015         0.0256							
OK         0.0109         0.0095         0.0191         0.0202         0.0146           OR         0.0116         0.0098         0.0114         0.0082         0.0150           PA         0.0053         0.0049         0.0082         0.0070         0.0105           RI         0.0141         0.0129         0.0215         0.0102         0.0253           SC         0.0096         0.0087         0.0201         0.0145         0.0160           SD         0.0158         0.0138         0.0377         0.0194         0.0199           TN         0.0105         0.0095         0.0120         0.0048         0.0195           TX         0.0052         0.0047         0.0084         0.0127         0.0068           UT         0.0129         0.0111         0.0111         0.0097         0.0138           VT         0.0139         0.0125         0.0116         0.0146         0.0183           VA         0.0081         0.0072         0.0112         0.0121         0.0190           WA         0.0100         0.0087         0.0115         0.0168         0.0156           WI         0.0074         0.0066         0.0088         0.0086 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>							
OR         0.0116         0.0098         0.0114         0.0082         0.0150           PA         0.0053         0.0049         0.0082         0.0070         0.0105           RI         0.0141         0.0129         0.0215         0.0102         0.0253           SC         0.0096         0.0087         0.0201         0.0145         0.0160           SD         0.0158         0.0138         0.0377         0.0194         0.0199           TN         0.0105         0.0095         0.0120         0.0048         0.0195           TX         0.0052         0.0047         0.0084         0.0127         0.0068           UT         0.0129         0.0111         0.0111         0.0097         0.0138           VT         0.0139         0.0125         0.0116         0.0146         0.0183           VA         0.0081         0.0072         0.0112         0.0121         0.0190           WA         0.0100         0.0087         0.0115         0.0168         0.0156           WI         0.0074         0.0066         0.0088         0.0086         0.0096           WY         0.0207         0.0168         0.0133         0.0128 <td< td=""><td>OH</td><td>0.0064</td><td>0.0057</td><td>0.0127</td><td>0.0120</td><td>0.0201</td></td<>	OH	0.0064	0.0057	0.0127	0.0120	0.0201	
PA         0.0053         0.0049         0.0082         0.0070         0.0105           RI         0.0141         0.0129         0.0215         0.0102         0.0253           SC         0.0096         0.0087         0.0201         0.0145         0.0160           SD         0.0158         0.0138         0.0377         0.0194         0.0199           TN         0.0105         0.0095         0.0120         0.0048         0.0195           TX         0.0052         0.0047         0.0084         0.0127         0.0068           UT         0.0129         0.0111         0.0111         0.0097         0.0138           VT         0.0139         0.0125         0.0166         0.0146         0.0183           VA         0.0081         0.0072         0.0112         0.0121         0.0190           WA         0.0100         0.0087         0.0115         0.0168         0.0156           WI         0.0074         0.0066         0.0088         0.0086         0.0096           WY         0.0207         0.0168         0.0133         0.0128         0.0129							
RI         0.0141         0.0129         0.0215         0.0102         0.0253           SC         0.0096         0.0087         0.0201         0.0145         0.0160           SD         0.0158         0.0138         0.0377         0.0194         0.0199           TN         0.0105         0.0095         0.0120         0.0048         0.0195           TX         0.0052         0.0047         0.0084         0.0127         0.0068           UT         0.0129         0.0111         0.0111         0.0097         0.0138           VT         0.0139         0.0125         0.0116         0.0146         0.0183           VA         0.0081         0.0072         0.0112         0.0121         0.0190           WA         0.0100         0.0087         0.0115         0.0168         0.0170           WV         0.0138         0.0128         0.0162         0.0256         0.0156           WI         0.0074         0.0168         0.0133         0.0128         0.0129							
SC         0.0096         0.0087         0.0201         0.0145         0.0160           SD         0.0158         0.0138         0.0377         0.0194         0.0199           TN         0.0105         0.0095         0.0120         0.0048         0.0195           TX         0.0052         0.0047         0.0084         0.0127         0.0068           UT         0.0129         0.0111         0.0111         0.0097         0.0138           VT         0.0139         0.0125         0.0116         0.0146         0.0183           VA         0.0081         0.0072         0.0112         0.0121         0.0190           WA         0.0100         0.0087         0.0115         0.0168         0.0170           WV         0.0138         0.0128         0.0162         0.0256         0.0156           WI         0.0074         0.0066         0.0088         0.0086         0.0096           WY         0.0207         0.0168         0.0133         0.0128         0.0129							
SD         0.0158         0.0138         0.0377         0.0194         0.0199           TN         0.0105         0.0095         0.0120         0.0048         0.0195           TX         0.0052         0.0047         0.0084         0.0127         0.0068           UT         0.0129         0.0111         0.0111         0.0097         0.0138           VT         0.0139         0.0125         0.0116         0.0146         0.0183           VA         0.0081         0.0072         0.0112         0.0121         0.0190           WA         0.0100         0.0087         0.0115         0.0168         0.0170           WV         0.0138         0.0128         0.0162         0.0256         0.0156           WI         0.0074         0.0066         0.0088         0.0086         0.0096           WY         0.0207         0.0168         0.0133         0.0128         0.0129						0.0253	
TN         0.0105         0.0095         0.0120         0.0048         0.0195           TX         0.0052         0.0047         0.0084         0.0127         0.0068           UT         0.0129         0.0111         0.0111         0.0097         0.0138           VT         0.0139         0.0125         0.0116         0.0146         0.0183           VA         0.0081         0.0072         0.0112         0.0121         0.0190           WA         0.0100         0.0087         0.0115         0.0168         0.0170           WV         0.0138         0.0128         0.0162         0.0256         0.0156           WI         0.0074         0.0066         0.0088         0.0086         0.0096           WY         0.0207         0.0168         0.0133         0.0128         0.0129						0.0160	
TX         0.0052         0.0047         0.0084         0.0127         0.0068           UT         0.0129         0.0111         0.0111         0.0097         0.0138           VT         0.0139         0.0125         0.0116         0.0146         0.0183           VA         0.0081         0.0072         0.0112         0.0121         0.0190           WA         0.0100         0.0087         0.0115         0.0168         0.0170           WV         0.0138         0.0128         0.0162         0.0256         0.0156           WI         0.0074         0.0066         0.0088         0.0086         0.0096           WY         0.0207         0.0168         0.0133         0.0128         0.0129							
UT         0.0129         0.0111         0.0111         0.0097         0.0138           VT         0.0139         0.0125         0.0116         0.0146         0.0183           VA         0.0081         0.0072         0.0112         0.0121         0.0190           WA         0.0100         0.0087         0.0115         0.0168         0.0170           WV         0.0138         0.0128         0.0162         0.0256         0.0156           WI         0.0074         0.0066         0.0088         0.0086         0.0096           WY         0.0207         0.0168         0.0133         0.0128         0.0129							
VT         0.0139         0.0125         0.0116         0.0146         0.0183           VA         0.0081         0.0072         0.0112         0.0121         0.0190           WA         0.0100         0.0087         0.0115         0.0168         0.0170           WV         0.0138         0.0128         0.0162         0.0256         0.0156           WI         0.0074         0.0066         0.0088         0.0086         0.0096           WY         0.0207         0.0168         0.0133         0.0128         0.0129							
VA         0.0081         0.0072         0.0112         0.0121         0.0190           WA         0.0100         0.0087         0.0115         0.0168         0.0170           WV         0.0138         0.0128         0.0162         0.0256         0.0156           WI         0.0074         0.0066         0.0088         0.0086         0.0096           WY         0.0207         0.0168         0.0133         0.0128         0.0129							
WA         0.0100         0.0087         0.0115         0.0168         0.0170           WV         0.0138         0.0128         0.0162         0.0256         0.0156           WI         0.0074         0.0066         0.0088         0.0086         0.0096           WY         0.0207         0.0168         0.0133         0.0128         0.0129						0.0183	
WV         0.0138         0.0128         0.0162         0.0256         0.0156           WI         0.0074         0.0066         0.0088         0.0086         0.0096           WY         0.0207         0.0168         0.0133         0.0128         0.0129							
WI         0.0074         0.0066         0.0088         0.0086         0.0096           WY         0.0207         0.0168         0.0133         0.0128         0.0129							
WY 0.0207 0.0168 0.0133 0.0128 0.0129						0.0156	
						0.0096	
					0.0128	0.0129	

AK         0.0141         0.0120         0.0220         0.0083         0.0           AZ         0.0067         0.0058         0.0076         0.0096         0.0           AR         0.0122         0.0105         0.0212         0.0186         0.0           CA         0.0034         0.0031         0.0058         0.0032         0.0           CO         0.0079         0.0072         0.0096         0.0086         0.0           CT         0.0078         0.0069         0.0103         0.0101         0.0           DE         0.0217         0.0199         0.0156         0.0288         0.0           DC         0.0206         0.0214         0.0133         0.0241         0.0           FL         0.0056         0.0051         0.0038         0.0034         0.0           GA         0.0081         0.0075         0.0072         0.0090         0.0           HI         0.0099         0.0084         0.0091         0.0021         0.0           ID         0.0055         0.0043         0.0082         0.0068         0.0           IL         0.0058         0.0056         0.0073         0.0097         0.0	
Factors   Research   Production   Reimputation   Reimputation   AL   0.0118   0.0110   0.0071   0.0145   0.00	0188 0112 0088 0274 0046 0101 0103 0352 0239
Research	0112 0088 0274 0046 0101 0103 0352 0239
AL         0.0118         0.0110         0.0071         0.0145         0.0           AK         0.0141         0.0120         0.0220         0.0083         0.0           AZ         0.0067         0.0058         0.0076         0.0096         0.0           AR         0.0122         0.0105         0.0212         0.0186         0.0           CA         0.0034         0.0031         0.0058         0.0032         0.0           CO         0.0079         0.0072         0.0096         0.0086         0.0           CT         0.0078         0.0069         0.0103         0.0101         0.0           DE         0.0217         0.0199         0.0156         0.0288         0.0           DC         0.0206         0.0214         0.0133         0.0241         0.0           FL         0.0056         0.0051         0.0038         0.0034         0.0           GA         0.0081         0.0075         0.0072         0.0090         0.0           HI         0.0099         0.0084         0.0091         0.0021         0.0           ID         0.0055         0.0043         0.0082         0.0068         0.0	0112 0088 0274 0046 0101 0103 0352 0239
AK         0.0141         0.0120         0.0220         0.0083         0.0           AZ         0.0067         0.0058         0.0076         0.0096         0.0           AR         0.0122         0.0105         0.0212         0.0186         0.0           CA         0.0034         0.0031         0.0058         0.0032         0.0           CO         0.0079         0.0072         0.0096         0.0086         0.0           CT         0.0078         0.0069         0.0103         0.0101         0.0           DE         0.0217         0.0199         0.0156         0.0288         0.0           DC         0.0206         0.0214         0.0133         0.0241         0.0           FL         0.0056         0.0051         0.0038         0.0034         0.0           GA         0.0081         0.0075         0.0072         0.0090         0.0           HI         0.0099         0.0084         0.0091         0.0021         0.0           ID         0.0055         0.0043         0.0082         0.0068         0.0           IL         0.0058         0.0056         0.0073         0.0097         0.0	0112 0088 0274 0046 0101 0103 0352 0239
AZ         0.0067         0.0058         0.0076         0.0096         0.0           AR         0.0122         0.0105         0.0212         0.0186         0.0           CA         0.0034         0.0031         0.0058         0.0032         0.0           CO         0.0079         0.0072         0.0096         0.0086         0.0           CT         0.0078         0.0069         0.0103         0.0101         0.0           DE         0.0217         0.0199         0.0156         0.0288         0.0           DC         0.0206         0.0214         0.0133         0.0241         0.0           FL         0.0056         0.0051         0.0038         0.0034         0.0           GA         0.0081         0.0075         0.0072         0.0090         0.0           HI         0.0099         0.0084         0.0091         0.0021         0.0           ID         0.0055         0.0043         0.0082         0.0068         0.0           IL         0.0058         0.0056         0.0073         0.0097         0.0           IN         0.0062         0.0056         0.0082         0.0078         0.0	0088 0274 0046 0101 0103 0352 0239
AR         0.0122         0.0105         0.0212         0.0186         0.0           CA         0.0034         0.0031         0.0058         0.0032         0.0           CO         0.0079         0.0072         0.0096         0.0086         0.0           CT         0.0078         0.0069         0.0103         0.0101         0.0           DE         0.0217         0.0199         0.0156         0.0288         0.0           DC         0.0206         0.0214         0.0133         0.0241         0.0           FL         0.0056         0.0051         0.0038         0.0034         0.0           GA         0.0081         0.0075         0.0072         0.0090         0.0           HI         0.0099         0.0084         0.0091         0.0021         0.0           ID         0.0055         0.0043         0.0082         0.0068         0.0           IL         0.0058         0.0056         0.0073         0.0097         0.0           IN         0.0062         0.0056         0.0082         0.0078         0.0           KS         0.0082         0.0071         0.0090         0.044         0.0	0274 0046 0101 0103 0352 0239
CA         0.0034         0.0031         0.0058         0.0032         0.0           CO         0.0079         0.0072         0.0096         0.0086         0.0           CT         0.0078         0.0069         0.0103         0.0101         0.0           DE         0.0217         0.0199         0.0156         0.0288         0.0           DC         0.0206         0.0214         0.0133         0.0241         0.0           FL         0.0056         0.0051         0.0038         0.0034         0.0           GA         0.0081         0.0075         0.0072         0.0090         0.0           HI         0.0099         0.0084         0.0091         0.0021         0.0           ID         0.0055         0.0043         0.0082         0.0068         0.0           IL         0.0058         0.0056         0.0073         0.0097         0.0           IN         0.0062         0.0056         0.0082         0.0078         0.0           IA         0.0068         0.0057         0.0055         0.0044         0.0           KY         0.0082         0.0071         0.0090         0.0048         0.0	0046 0101 0103 0352 0239
CO         0.0079         0.0072         0.0096         0.0086         0.0           CT         0.0078         0.0069         0.0103         0.0101         0.0           DE         0.0217         0.0199         0.0156         0.0288         0.0           DC         0.0206         0.0214         0.0133         0.0241         0.0           FL         0.0056         0.0051         0.0038         0.0094         0.0           GA         0.0081         0.0075         0.0072         0.0090         0.0           HI         0.0099         0.0084         0.0091         0.0021         0.0           ID         0.0055         0.0043         0.0082         0.0068         0.0           IL         0.0058         0.0056         0.0073         0.0097         0.0           IN         0.0062         0.0056         0.0082         0.0078         0.0           IA         0.0068         0.0057         0.0055         0.0044         0.0           KS         0.0082         0.0071         0.0090         0.0488         0.0           KY         0.0089         0.0079         0.0075         0.0156         0.0	0101 0103 0352 0239
CT         0.0078         0.0069         0.0103         0.0101         0.0           DE         0.0217         0.0199         0.0156         0.0288         0.0           DC         0.0206         0.0214         0.0133         0.0241         0.0           FL         0.0056         0.0051         0.0038         0.0034         0.0           GA         0.0081         0.0075         0.0072         0.0090         0.0           HI         0.0099         0.0084         0.0091         0.0021         0.0           ID         0.0055         0.0043         0.0082         0.0068         0.0           IL         0.0058         0.0056         0.0073         0.0097         0.0           IN         0.0062         0.0056         0.0082         0.0078         0.0           IA         0.0068         0.0057         0.0055         0.0044         0.0           KS         0.0082         0.0071         0.0090         0.0048         0.0           KY         0.0089         0.0071         0.0090         0.0048         0.0           KY         0.0089         0.0073         0.0185         0.0095         0.0	0103 0352 0239
DE         0.0217         0.0199         0.0156         0.0288         0.0           DC         0.0206         0.0214         0.0133         0.0241         0.0           FL         0.0056         0.0051         0.0038         0.0034         0.0           GA         0.0081         0.0075         0.0072         0.0090         0.0           HI         0.0099         0.0084         0.0091         0.0021         0.0           ID         0.0055         0.0043         0.0082         0.0068         0.0           IL         0.0058         0.0056         0.0073         0.0097         0.0           IN         0.0062         0.0056         0.0082         0.0078         0.0           IA         0.0068         0.0057         0.0055         0.0044         0.0           KS         0.0082         0.0071         0.0090         0.0048         0.0           KY         0.0089         0.0079         0.0075         0.0156         0.0           LA         0.0111         0.0100         0.0115         0.0128         0.0           ME         0.0087         0.0073         0.0185         0.0095         0.0	0352 0239
DC         0.0206         0.0214         0.0133         0.0241         0.0           FL         0.0056         0.0051         0.0038         0.0034         0.0           GA         0.0081         0.0075         0.0072         0.0090         0.0           HI         0.0099         0.0084         0.0091         0.0021         0.0           ID         0.0055         0.0043         0.0082         0.0068         0.0           IL         0.0058         0.0056         0.0073         0.0097         0.0           IN         0.0062         0.0056         0.0082         0.0078         0.0           IA         0.0068         0.0057         0.0055         0.0044         0.0           KS         0.0082         0.0071         0.0090         0.048         0.0           KY         0.0089         0.0079         0.0075         0.0156         0.0           LA         0.0111         0.0100         0.0115         0.0128         0.0           ME         0.0087         0.0073         0.0185         0.0095         0.0           MD         0.0112         0.0104         0.0134         0.0090         0.0	0239
FL         0.0056         0.0051         0.0038         0.0034         0.0           GA         0.0081         0.0075         0.0072         0.0090         0.0           HI         0.0099         0.0084         0.0091         0.0021         0.0           ID         0.0055         0.0043         0.0082         0.0068         0.0           IL         0.0058         0.0056         0.0073         0.0097         0.0           IN         0.0062         0.0056         0.0082         0.0078         0.0           IA         0.0068         0.0057         0.0055         0.0044         0.0           KS         0.0082         0.0071         0.0090         0.048         0.0           KY         0.0089         0.0079         0.0075         0.0156         0.0           KY         0.0089         0.0079         0.0075         0.0156         0.0           ME         0.0087         0.0073         0.0185         0.0         0.0           MD         0.0112         0.0104         0.0134         0.0095         0.0           MA         0.0053         0.0043         0.0059         0.0065         0.0 <td< td=""><td></td></td<>	
GA         0.0081         0.0075         0.0072         0.0090         0.00           HI         0.0099         0.0084         0.0091         0.0021         0.0           ID         0.0055         0.0043         0.0082         0.0068         0.0           IL         0.0058         0.0056         0.0073         0.0097         0.0           IN         0.0062         0.0056         0.0082         0.0078         0.0           IA         0.0068         0.0057         0.0055         0.0044         0.0           KS         0.0082         0.0071         0.0090         0.048         0.0           KY         0.0089         0.0079         0.0075         0.0156         0.0           KY         0.0089         0.0079         0.0075         0.0156         0.0           ME         0.0087         0.0073         0.0185         0.0095         0.0           MD         0.0112         0.0104         0.0134         0.0095         0.0           MA         0.0053         0.0043         0.0059         0.0065         0.0           MI         0.0062         0.0054         0.0132         0.0188         0.0	0100
HI         0.0099         0.0084         0.0091         0.0021         0.00           ID         0.0055         0.0043         0.0082         0.0068         0.0           IL         0.0058         0.0056         0.0073         0.0097         0.0           IN         0.0062         0.0056         0.0082         0.0078         0.0           IA         0.0068         0.0057         0.0055         0.0044         0.0           KS         0.0082         0.0071         0.0090         0.0048         0.0           KY         0.0089         0.0079         0.0075         0.0156         0.0           KY         0.0089         0.0079         0.0075         0.0128         0.0           ME         0.0087         0.0073         0.0185         0.0095         0.0           MD         0.0112         0.0104         0.0134         0.0090         0.0           MA         0.0053         0.0043         0.0059         0.0065         0.0           MI         0.0062         0.0054         0.0132         0.0188         0.0           MN         0.0057         0.0049         0.0119         0.0090         0.0	
IID         0.0055         0.0043         0.0082         0.0068         0.0           IIL         0.0058         0.0056         0.0073         0.0097         0.0           IN         0.0062         0.0056         0.0082         0.0078         0.0           IA         0.0068         0.0057         0.0055         0.0044         0.0           KS         0.0082         0.0071         0.0090         0.0048         0.0           KY         0.0089         0.0079         0.0075         0.0156         0.0           KY         0.0089         0.0079         0.0075         0.0156         0.0           ME         0.0087         0.0073         0.0185         0.0095         0.0           MD         0.0112         0.0104         0.0134         0.0090         0.0           MA         0.0053         0.0043         0.0059         0.0065         0.0           MI         0.0062         0.0054         0.0132         0.0188         0.0           MS         0.0133         0.0122         0.0196         0.0182         0.0           MO         0.0072         0.0066         0.0090         0.0114         0.0	0142
IL         0.0058         0.0056         0.0073         0.0097         0.0           IN         0.0062         0.0056         0.0082         0.0078         0.0           IA         0.0068         0.0057         0.0055         0.0044         0.0           KS         0.0082         0.0071         0.0090         0.0048         0.0           KY         0.0089         0.0079         0.0075         0.0156         0.0           LA         0.0111         0.0100         0.0115         0.0128         0.0           ME         0.0087         0.0073         0.0185         0.0095         0.0           MD         0.0112         0.0104         0.0134         0.0090         0.0           MA         0.0053         0.0043         0.0059         0.0065         0.0           MI         0.0062         0.0054         0.0132         0.0188         0.0           MS         0.0133         0.0122         0.0196         0.0182         0.0           MO         0.0072         0.0066         0.0090         0.0114         0.0           MT         0.0060         0.0049         0.0080         0.0058         0.0	0137
IN         0.0062         0.0056         0.0082         0.0078         0.00           IA         0.0068         0.0057         0.0055         0.0044         0.0           KS         0.0082         0.0071         0.0090         0.0048         0.0           KY         0.0089         0.0079         0.0075         0.0156         0.0           LA         0.0111         0.0100         0.0115         0.0128         0.0           ME         0.0087         0.0073         0.0185         0.0095         0.0           MD         0.0112         0.0104         0.0134         0.0090         0.0           MA         0.0053         0.0043         0.0059         0.0065         0.0           MI         0.0062         0.0054         0.0132         0.0188         0.0           MS         0.0133         0.0122         0.0196         0.0182         0.0           MO         0.0072         0.0066         0.0090         0.0114         0.0           MT         0.0060         0.0049         0.0080         0.0058         0.0           NE         0.0095         0.0082         0.0081         0.0069         0.0	0054
IA         0.0068         0.0057         0.0055         0.0044         0.0           KS         0.0082         0.0071         0.0090         0.0048         0.0           KY         0.0089         0.0079         0.0075         0.0156         0.0           LA         0.0111         0.0100         0.0115         0.0128         0.0           ME         0.0087         0.0073         0.0185         0.0095         0.0           MD         0.0112         0.0104         0.0134         0.0090         0.0           MA         0.0053         0.0043         0.0059         0.0065         0.0           MI         0.0062         0.0054         0.0132         0.0188         0.0           MS         0.0133         0.0122         0.0196         0.0182         0.0           MO         0.0072         0.0066         0.0090         0.0114         0.0           MT         0.0060         0.0049         0.0080         0.0058         0.0           NE         0.0095         0.0082         0.0081         0.0069         0.0           NV         0.0152         0.0139         0.0194         0.0164         0.0	0090
KS         0.0082         0.0071         0.0090         0.0048         0.00           KY         0.0089         0.0079         0.0075         0.0156         0.0           LA         0.0111         0.0100         0.0115         0.0128         0.0           ME         0.0087         0.0073         0.0185         0.0095         0.0           MD         0.0112         0.0104         0.0134         0.0090         0.0           MA         0.0053         0.0043         0.0059         0.0065         0.0           MI         0.0062         0.0054         0.0132         0.0188         0.0           MN         0.0057         0.0049         0.0119         0.0090         0.0           MS         0.0133         0.0122         0.0196         0.0182         0.0           MO         0.0072         0.0066         0.0090         0.0114         0.0           MT         0.0060         0.0049         0.0080         0.0058         0.0           NE         0.0095         0.0082         0.0081         0.0069         0.0           NV         0.0152         0.0139         0.0194         0.0164         0.0	0103
KY         0.0089         0.0079         0.0075         0.0156         0.0           LA         0.0111         0.0100         0.0115         0.0128         0.0           ME         0.0087         0.0073         0.0185         0.0095         0.0           MD         0.0112         0.0104         0.0134         0.0090         0.0           MA         0.0053         0.0043         0.0059         0.0065         0.0           MI         0.0062         0.0054         0.0132         0.0188         0.0           MN         0.0057         0.0049         0.0119         0.0090         0.0           MS         0.0133         0.0122         0.0196         0.0182         0.0           MO         0.0072         0.0066         0.0090         0.0114         0.0           MT         0.0060         0.0049         0.0080         0.0058         0.0           NE         0.0095         0.0082         0.0081         0.0069         0.0           NV         0.0152         0.0139         0.0194         0.0164         0.0           NJ         0.0073         0.0065         0.0100         0.0176         0.0	0087
LA         0.0111         0.0100         0.0115         0.0128         0.0           ME         0.0087         0.0073         0.0185         0.0095         0.0           MD         0.0112         0.0104         0.0134         0.0090         0.0           MA         0.0053         0.0043         0.0059         0.0065         0.0           MI         0.0062         0.0054         0.0132         0.0188         0.0           MN         0.0057         0.0049         0.0119         0.0090         0.0           MS         0.0133         0.0122         0.0196         0.0182         0.0           MO         0.0072         0.0066         0.0090         0.0114         0.0           MT         0.0060         0.0049         0.0080         0.0058         0.0           NE         0.0095         0.0082         0.0081         0.0069         0.0           NV         0.0152         0.0139         0.0194         0.0164         0.0           NH         0.0057         0.0047         0.0102         0.0062         0.0           NJ         0.0073         0.0065         0.0100         0.0176         0.0	0100
ME         0.0087         0.0073         0.0185         0.0095         0.0           MD         0.0112         0.0104         0.0134         0.0090         0.0           MA         0.0053         0.0043         0.0059         0.0065         0.0           MI         0.0062         0.0054         0.0132         0.0188         0.0           MN         0.0057         0.0049         0.0119         0.0090         0.0           MS         0.0133         0.0122         0.0196         0.0182         0.0           MO         0.0072         0.0066         0.0090         0.0114         0.0           MT         0.0060         0.0049         0.0080         0.0058         0.0           NE         0.0095         0.0082         0.0081         0.0069         0.0           NV         0.0152         0.0139         0.0194         0.0164         0.0           NH         0.0057         0.0047         0.0102         0.0062         0.0           NJ         0.0073         0.0065         0.0100         0.0176         0.0           NM         0.0093         0.0078         0.0057         0.0058         0.0	0146
MD         0.0112         0.0104         0.0134         0.0090         0.0           MA         0.0053         0.0043         0.0059         0.0065         0.0           MI         0.0062         0.0054         0.0132         0.0188         0.0           MN         0.0057         0.0049         0.0119         0.0090         0.0           MS         0.0133         0.0122         0.0196         0.0182         0.0           MO         0.0072         0.0066         0.0090         0.0114         0.0           MT         0.0060         0.0049         0.0080         0.0058         0.0           NE         0.0095         0.0082         0.0081         0.0069         0.0           NV         0.0152         0.0139         0.0194         0.0164         0.0           NH         0.0057         0.0047         0.0102         0.0062         0.0           NJ         0.0073         0.0065         0.0100         0.0176         0.0           NM         0.0093         0.0078         0.0057         0.0058         0.0           NY         0.0045         0.0041         0.0087         0.0051         0.0	0283
MA         0.0053         0.0043         0.0059         0.0065         0.0           MI         0.0062         0.0054         0.0132         0.0188         0.0           MN         0.0057         0.0049         0.0119         0.0090         0.0           MS         0.0133         0.0122         0.0196         0.0182         0.0           MO         0.0072         0.0066         0.0090         0.0114         0.0           MT         0.0060         0.0049         0.0080         0.0058         0.0           NE         0.0095         0.0082         0.0081         0.0069         0.0           NV         0.0152         0.0139         0.0194         0.0164         0.0           NH         0.0057         0.0047         0.0102         0.0062         0.0           NJ         0.0073         0.0065         0.0100         0.0176         0.0           NM         0.0093         0.0078         0.0057         0.0058         0.0           NY         0.0045         0.0041         0.0087         0.0051         0.0	0069
MI         0.0062         0.0054         0.0132         0.0188         0.0           MN         0.0057         0.0049         0.0119         0.0090         0.0           MS         0.0133         0.0122         0.0196         0.0182         0.0           MO         0.0072         0.0066         0.0090         0.0114         0.0           MT         0.0060         0.0049         0.0080         0.0058         0.0           NE         0.0095         0.0082         0.0081         0.0069         0.0           NV         0.0152         0.0139         0.0194         0.0164         0.0           NH         0.0057         0.0047         0.0102         0.0062         0.0           NJ         0.0073         0.0065         0.0100         0.0176         0.0           NM         0.0093         0.0078         0.0057         0.0058         0.0           NY         0.0045         0.0041         0.0087         0.0051         0.0	0214
MN         0.0057         0.0049         0.0119         0.0090         0.0           MS         0.0133         0.0122         0.0196         0.0182         0.0           MO         0.0072         0.0066         0.0090         0.0114         0.0           MT         0.0060         0.0049         0.0080         0.0058         0.0           NE         0.0095         0.0082         0.0081         0.0069         0.0           NV         0.0152         0.0139         0.0194         0.0164         0.0           NH         0.0057         0.0047         0.0102         0.0062         0.0           NJ         0.0073         0.0065         0.0100         0.0176         0.0           NM         0.0093         0.0078         0.0057         0.0058         0.0           NY         0.0045         0.0041         0.0087         0.0051         0.0	0065
MS         0.0133         0.0122         0.0196         0.0182         0.0           MO         0.0072         0.0066         0.0090         0.0114         0.0           MT         0.0060         0.0049         0.0080         0.0058         0.0           NE         0.0095         0.0082         0.0081         0.0069         0.0           NV         0.0152         0.0139         0.0194         0.0164         0.0           NH         0.0057         0.0047         0.0102         0.0062         0.0           NJ         0.0073         0.0065         0.0100         0.0176         0.0           NM         0.0093         0.0078         0.0057         0.0058         0.0           NY         0.0045         0.0041         0.0087         0.0051         0.0	0081
MO         0.0072         0.0066         0.0090         0.0114         0.0           MT         0.0060         0.0049         0.0080         0.0058         0.0           NE         0.0095         0.0082         0.0081         0.0069         0.0           NV         0.0152         0.0139         0.0194         0.0164         0.0           NH         0.0057         0.0047         0.0102         0.0062         0.0           NJ         0.0073         0.0065         0.0100         0.0176         0.0           NM         0.0093         0.0078         0.0057         0.0058         0.0           NY         0.0045         0.0041         0.0087         0.0051         0.0	0080
MT         0.0060         0.0049         0.0080         0.0058         0.0           NE         0.0095         0.0082         0.0081         0.0069         0.0           NV         0.0152         0.0139         0.0194         0.0164         0.0           NH         0.0057         0.0047         0.0102         0.0062         0.0           NJ         0.0073         0.0065         0.0100         0.0176         0.0           NM         0.0093         0.0078         0.0057         0.0058         0.0           NY         0.0045         0.0041         0.0087         0.0051         0.0	0218
NE         0.0095         0.0082         0.0081         0.0069         0.0           NV         0.0152         0.0139         0.0194         0.0164         0.0           NH         0.0057         0.0047         0.0102         0.0062         0.0           NJ         0.0073         0.0065         0.0100         0.0176         0.0           NM         0.0093         0.0078         0.0057         0.0058         0.0           NY         0.0045         0.0041         0.0087         0.0051         0.0	0263
NV         0.0152         0.0139         0.0194         0.0164         0.0           NH         0.0057         0.0047         0.0102         0.0062         0.0           NJ         0.0073         0.0065         0.0100         0.0176         0.0           NM         0.0093         0.0078         0.0057         0.0058         0.0           NY         0.0045         0.0041         0.0087         0.0051         0.0	0113
NH         0.0057         0.0047         0.0102         0.0062         0.0           NJ         0.0073         0.0065         0.0100         0.0176         0.0           NM         0.0093         0.0078         0.0057         0.0058         0.0           NY         0.0045         0.0041         0.0087         0.0051         0.0	0109
NJ         0.0073         0.0065         0.0100         0.0176         0.0           NM         0.0093         0.0078         0.0057         0.0058         0.0           NY         0.0045         0.0041         0.0087         0.0051         0.0	0188
NM         0.0093         0.0078         0.0057         0.0058         0.0           NY         0.0045         0.0041         0.0087         0.0051         0.0	0043
NY 0.0045 0.0041 0.0087 0.0051 0.0	0116
	0095
NC   0.0074   0.0070   0.0071   0.0068   0.0	0068
	0137
	0063
OH 0.0059 0.0053 0.0110 0.0121 0.0	0115
	0103
	0074
	0092
	0137
	0169
	0083
	0192
	0062
	0061
	0133
	0151
	0119
	0119
WY   0.0108   0.0089   0.0075   0.0055   0.00   Source: 2012 American Community Survey 1 year Data	0073

Standard Errors of the Proportion Asian Alone in the GQ Population for Alternative Methods						
State	SDR with	SDR with	Ten Random	Five Random	SDR no GQ	
	Inflation	Inflation	Groups with	Groups with	Imputation	
	Factors	Factors	Reimputation	Reimputation		
	Research	Production				
AL	0.0023	0.0019	0.0047	0.0032	0.0024	
AK	0.0181	0.0171	0.0148	0.0201	0.0315	
AZ	0.0036	0.0033	0.0078	0.0069	0.0072	
AR	0.0027	0.0023	0.0075	0.0042	0.0029	
CA	0.0027	0.0023	0.0054	0.0077	0.0043	
CO	0.0034	0.0031	0.0046	0.0053	0.0040	
CT	0.0045	0.0040	0.0084	0.0052	0.0054	
DE	0.0043	0.0034	0.0078	0.0039	0.0023	
DC	0.0135	0.0146	0.0149	0.0133	0.0073	
FL	0.0016	0.0013	0.0023	0.0030	0.0016	
GA	0.0030	0.0028	0.0052	0.0040	0.0057	
HI	0.0182	0.0166	0.0207	0.0160	0.0299	
ID	0.0046	0.0037	0.0042	0.0042	0.0046	
IL	0.0030	0.0028	0.0037	0.0025	0.0078	
IN	0.0030	0.0029	0.0026	0.0036	0.0038	
IA	0.0044	0.0041	0.0094	0.0064	0.0038	
KS	0.0052	0.0042	0.0073	0.0090	0.0068	
KY	0.0023	0.0019	0.0034	0.0018	0.0031	
LA	0.0030	0.0027	0.0023	0.0034	0.0030	
ME	0.0056	0.0046	0.0051	0.0030	0.0046	
MD	0.0041	0.0037	0.0053	0.0037	0.0049	
MA	0.0046	0.0039	0.0105	0.0138	0.0076	
MI	0.0032	0.0030	0.0036	0.0034	0.0034	
MN	0.0035	0.0030	0.0106	0.0051	0.0040	
MS	0.0024	0.0021	0.0029	0.0023	0.0020	
MO	0.0031	0.0026	0.0038	0.0037	0.0038	
MT	0.0033	0.0028	0.0047	0.0036	0.0052	
NE	0.0051	0.0044	0.0053	0.0067	0.0043	
NV	0.0039	0.0034	0.0072	0.0118	0.0032	
NH	0.0046	0.0038	0.0071	0.0095	0.0047	
NJ	0.0039	0.0035	0.0079	0.0093	0.0055	
NM	0.0049	0.0039	0.0040	0.0049	0.0057	
NY	0.0028	0.0025	0.0038	0.0050	0.0028	
NC	0.0024	0.0020	0.0033	0.0047	0.0028	
ND	0.0072	0.0063	0.0058	0.0062	0.0062	
OH	0.0018	0.0016	0.0031	0.0016	0.0026	
OK	0.0031	0.0029	0.0069	0.0091	0.0035	
OR	0.0050	0.0046	0.0066	0.0044	0.0067	
PA	0.0025	0.0022	0.0031	0.0030	0.0033	
RI	0.0086	0.0075	0.0148	0.0117	0.0153	
SC	0.0024	0.0020	0.0019	0.0013	0.0026	
SD	0.0042	0.0038	0.0110	0.0058	0.0120	
TN	0.0022	0.0020	0.0035	0.0012	0.0022	
TX	0.0018	0.0017	0.0033	0.0030	0.0031	
UT	0.0053	0.0045	0.0082	0.0082	0.0043	
VT	0.0060	0.0055	0.0065	0.0093	0.0044	
VA	0.0029	0.0025	0.0033	0.0039	0.0048	
WA	0.0055	0.0054	0.0109	0.0046	0.0046	
WV	0.0042	0.0037	0.0086	0.0041	0.0039	
WI	0.0025	0.0024	0.0047	0.0027	0.0022	
WY Source: 20	0.0070	0.0058	0.0077	0.0072	0.0050	

Standard	d Error of the Prop	ortion Language	in the GQ Popul	ation for Alternat	ive Methods
State	SDR with	SDR with	Ten Random	Five Random	SDR no GQ
	Inflation	Inflation	Groups with	Groups with	Imputation
	Factors	Factors	Reimputation	Reimputation	
	Research	Production			
AL	0.0030	0.0028	0.0027	0.0013	0.0036
AK	0.0183	0.0166	0.0123	0.0048	0.0323
AZ	0.0079	0.0079	0.0090	0.0067	0.0117
AR	0.0035	0.0032	0.0022	0.0015	0.0042
CA	0.0028	0.0026	0.0025	0.0038	0.0043
CO	0.0063	0.0057	0.0100	0.0096	0.0095
CT	0.0048	0.0042	0.0033	0.0035	0.0058
DE	0.0069	0.0057	0.0050	0.0031	0.0055
DC	0.0079	0.0074	0.0030	0.0027	0.0077
FL	0.0033	0.0031	0.0055	0.0073	0.0104
GA	0.0030	0.0026	0.0026	0.0014	0.0037
HI	0.0152	0.0132	0.0148	0.0182	0.0327
ID	0.0145	0.0138	0.0029	0.0040	0.0101
IL	0.0030	0.0027	0.0040	0.0036	0.0053
IN	0.0030	0.0027	0.0032	0.0020	0.0037
IA	0.0038	0.0032	0.0038	0.0019	0.0033
KS	0.0054	0.0044	0.0112	0.0146	0.0063
KY	0.0039	0.0033	0.0032	0.0019	0.0044
LA	0.0042	0.0039	0.0032	0.0013	0.0054
ME	0.0083	0.0067	0.0022	0.0043	0.0093
MD	0.0031	0.0026	0.0045	0.0042	0.0033
MA	0.0039	0.0033	0.0031	0.0040	0.0094
MI	0.0031	0.0029	0.0033	0.0027	0.0109
MN	0.0037	0.0033	0.0089	0.0064	0.0050
MS	0.0038	0.0037	0.0025	0.0037	0.0045
MO	0.0026	0.0022	0.0013	0.0009	0.0053
MT	0.0036	0.0031	0.0026	0.0004	0.0046
NE	0.0042	0.0034	0.0031	0.0045	0.0056
NV	0.0106	0.0105	0.0058	0.0104	0.0093
NH	0.0055	0.0049	0.0045	0.0020	0.0061
NJ	0.0041	0.0035	0.0056	0.0026	0.0061
NM	0.0126	0.0113	0.0075	0.0057	0.0156
NY	0.0029	0.0026	0.0025	0.0023	0.0034
NC	0.0022	0.0019	0.0022	0.0023	0.0026
ND	0.0074	0.0063	0.0015	0.0007	0.0067
OH	0.0023	0.0022	0.0020	0.0029	0.0027
OK	0.0039	0.0035	0.0046	0.0026	0.0049
OR	0.0061	0.0054	0.0042	0.0046	0.0092
PA	0.0022	0.0020	0.0021	0.0014	0.0032
RI	0.0059	0.0053	0.0035	0.0022	0.0062
SC	0.0035	0.0033	0.0036	0.0056	0.0048
SD	0.0060	0.0054	0.0032	0.0055	0.0081
TN	0.0026	0.0025	0.0026	0.0028	0.0035
TX	0.0032	0.0030	0.0046	0.0024	0.0045
UT	0.0093	0.0084	0.0048	0.0062	0.0079
VT	0.0082	0.0074	0.0035	0.0067	0.0177
VA	0.0025	0.0021	0.0051	0.0026	0.0044
WA	0.0055	0.0049	0.0056	0.0056	0.0099
WV	0.0048	0.0042	0.0050	0.0049	0.0051
WI	0.0048	0.0042	0.0030	0.0047	0.0031
WY	0.0027	0.0023	0.0019	0.0017	0.0026
	)12 American Co			0.0010	0.0070

Standa	rd Error of the Prop	portion Disabled	in the GQ Popula	ntion for Alternati	ve Methods
State	SDR with	SDR with	Ten Random	Five Random	SDR no GQ
	Inflation	Inflation	Groups with	Groups with	Imputation
	Factors	Factors	Reimputation	Reimputation	
A T	Research	Production	0.0004	0.0150	0.0154
AL	0.0098	0.0085	0.0084	0.0158	0.0154
AK	0.0160	0.0131	0.0164	0.0161	0.0162
AZ	0.0083	0.0077	0.0108	0.0111	0.0250
AR	0.0130	0.0117	0.0175	0.0148	0.0219
CA	0.0045	0.0040	0.0049	0.0031	0.0121
CO	0.0105	0.0092	0.0064	0.0074	0.0202
CT	0.0093	0.0082	0.0146	0.0142	0.0117
DE	0.0183	0.0163	0.0173	0.0197	0.0210
DC	0.0154	0.0137	0.0172	0.0245	0.0230
FL	0.0056	0.0051	0.0106	0.0097	0.0136
GA	0.0063	0.0055	0.0033	0.0033	0.0101
HI	0.0223	0.0199	0.0252	0.0202	0.0346
ID	0.0222	0.0195	0.0175	0.0166	0.0383
IL IN	0.0067	0.0060	0.0095	0.0043	0.0111
IN IA	0.0080	0.0072 0.0083	0.0046 0.0063	0.0055 0.0069	0.0160 0.0141
KS	0.0097 0.0128	0.0085	0.0063	0.0069	0.0141
KY	0.0128	0.0103	0.0097	0.0138	0.0202
LA	0.0089	0.0077	0.0093	0.0030	0.0143
ME	0.0202	0.0080	0.0203	0.0030	0.0102
MD	0.0202	0.0080	0.0203	0.0072	0.0279
MA	0.0058	0.0052	0.0039	0.0072	0.0130
MI	0.0038	0.0032	0.0090	0.0120	0.0088
MN	0.0070	0.0087	0.0076	0.0055	0.0119
MS	0.0109	0.0094	0.0107	0.0107	0.0100
MO	0.0085	0.0074	0.0107	0.0078	0.0172
MT	0.0189	0.0167	0.0189	0.0112	0.0260
NE	0.0160	0.0140	0.0096	0.0112	0.0306
NV	0.0182	0.0174	0.0172	0.0189	0.0354
NH	0.0131	0.0174	0.0172	0.0057	0.0230
NJ	0.0084	0.0076	0.0076	0.0062	0.0167
NM	0.0208	0.0192	0.0295	0.0050	0.0350
NY	0.0050	0.0046	0.0032	0.0019	0.0082
NC	0.0065	0.0059	0.0091	0.0086	0.0113
ND	0.0199	0.0168	0.0095	0.0104	0.0226
OH	0.0063	0.0056	0.0045	0.0048	0.0196
OK	0.0107	0.0090	0.0146	0.0106	0.0140
OR	0.0146	0.0125	0.0094	0.0205	0.0272
PA	0.0051	0.0046	0.0046	0.0034	0.0099
RI	0.0126	0.0112	0.0183	0.0166	0.0190
SC	0.0073	0.0064	0.0090	0.0092	0.0108
SD	0.0181	0.0163	0.0393	0.0173	0.0269
TN	0.0089	0.0077	0.0106	0.0067	0.0182
TX	0.0047	0.0043	0.0042	0.0035	0.0071
UT	0.0154	0.0137	0.0189	0.0325	0.0294
VT	0.0153	0.0131	0.0139	0.0083	0.0213
VA	0.0062	0.0057	0.0057	0.0032	0.0110
WA	0.0106	0.0098	0.0178	0.0124	0.0250
WV	0.0145	0.0133	0.0175	0.0226	0.0212
WI	0.0086	0.0078	0.0095	0.0084	0.0147
WY	0.0196	0.0183	0.0097	0.0030	0.0404