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Subject: 2010 Census Coverage Measurement Estimation Report:
Components of Census Coverage for Housing Units in the United
States

This report is one of twelve documents providing estimation results from the 2010 Census Coverage Measurement program. This report provides estimates of components of census coverage for housing units in the United States.

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Attachments

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Census Coverage Measurement Estimation Report

Components of Census Coverage for Housing Units in the United States

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Executive Summary

The Census Coverage Measurement produced the components of census coverage that include erroneous enumerations and omissions. This document provides results of the components of census coverage for housing units.

The Census Coverage Measurement estimated 132.47 million housing units.

The Census Coverage Measurement estimated three components of census coverage: correct enumerations, erroneous enumerations, and omissions. The correct enumeration estimate was 128.18 million housing units. The erroneous enumeration estimate was 3.49 million housing units, with 1.15 million coming from duplication and 2.34 million coming from other reasons. The Census Coverage Measurement estimated that 4.28 million housing units were omitted from the census. Omissions are housing units that *should have been* enumerated in the United States, but were not.

1. Introduction

The 2010 Census Coverage Measurement (CCM) program evaluated coverage of the 2010 Census to aid in improving future censuses. The CCM measured the net coverage and components of census coverage of housing units and persons, excluding group quarters and persons residing in group quarters. The CCM sample design was a probability sample of 170,000 housing units. Remote areas of Alaska were out of scope for the CCM.

This report provides the 2010 national components of census coverage that include estimates of correct enumerations, erroneous enumerations, and omissions and for housing units. These estimates are provided for major housing characteristics, householder demographic groups, census operational areas, states, large counties, and large places. As this is the first effort to provide detailed component estimates, this report does not provide any data from earlier censuses.

Additional reports that provide measures of census coverage include:

- estimates of net coverage for housing units (Olson and Viehdorfer 2012),
- estimates of net coverage for the household population (Davis and Mulligan 2012), and
- estimates of components of census coverage for the household population (Keller and Fox 2012a).

2. Methods

Our approach for estimating components of census coverage for housing units fell into the following categories:

- estimates of correct and erroneous enumerations
- estimates of omissions

2.1 *Estimates of Correct and Erroneous Enumerations*

The estimates of correct and erroneous enumerations were design-based estimates using the matching, followup, and processing results of the sample of census housing units (that is, the E sample). We also implemented missing data procedures for unresolved enumeration status and missing characteristics. To control variance, we implemented an adjustment procedure to take advantage of the finite population total of census enumerations. Estimates of correct and erroneous enumerations were benchmarked to larger aggregates to ensure consistency of estimates among the tables provided in this report. In addition to generating estimates of levels of correct and erroneous enumerations, the CCM produced percentages as well. For these percentages, the denominator was the census count.

2.2 *Estimates of Omissions*

The CCM program estimated the total number of omissions as well. There is no direct estimation methodology available to estimate omissions. The CCM estimated omissions by

subtracting the correct enumerations from the dual system estimate (DSE). See forthcoming methods document for more information on the estimation of omissions.

$$Omissions = DSE - Correct Enumerations$$

In addition to levels, the CCM reports omissions as a percentage of the estimated population.

$$Omission Percentage = \left(\frac{Omissions}{DSE} \right) \times 100$$

2.3 Net Coverage Estimates

In addition to reporting component estimates, we also show results of net coverage estimation, specifically percent net undercount. The percent net undercount is the net undercount estimate (DSE - Census Count) divided by the DSE expressed as a percentage. A positive percent indicates a net undercount and a negative percent indicates a net overcount.

$$Percent Net Undercount = \left(\frac{DSE - Census}{DSE} \right) \times 100$$

2.4 Statistical Testing

Statements of comparison in this report are statistically significant at the 90% confidence level ($\alpha = 0.10$) using a two-sided test. “Statistically significant” means that the difference is not likely due to random chance alone. In the tables, percent net undercount estimates that are significantly different from zero are identified by an asterisk (*).

3. Limitations

In this section, we provide statements about the data that are worth noting when reading this document.

3.1 Measures of Uncertainty Accounting for Sampling and Synthetic Error

Because the CCM estimates are based on a sample survey, they are subject to sampling error. As a result, the sample estimates differ from what would have been obtained if all housing units had been included in the survey. The standard errors provided with the data reflect variation due to sampling. For the component estimation of correct and erroneous enumerations, we used a ratio-adjusted design-based estimator that was benchmarked to a larger aggregate estimate. The standard error measures the uncertainty of this direct estimate.

In applying dual system estimation of the population, we used several fixed-effect logistic regression models to create a "synthetic" estimator. The parameters of these models were estimated using data from the entire national sample, and then applied synthetically for any given domain of estimation. Thus, the domains were subject to a potential synthetic bias. The bias in the synthetic estimator represents the difference, if any, in the domain's population estimate one

would obtain by applying the synthetic model versus by simply tabulating over the true population (if it were known). For most estimation domains, main effects and interactions related to the domain were included in these models to minimize the synthetic bias in the population estimates.

For governmental entities like states, counties, and places, there was concern that the standard errors for the population estimates, percent net undercount, and percent omissions would underestimate the true error by not capturing the synthetic bias. For these governmental entities, we produced estimates of root mean squared error for the total population estimates, percent net undercount, and percent omissions. These estimates of error added an estimate of synthetic bias to the sampling variance of the synthetic estimates that used fixed-effect logistic regression.

3.2 Other Sources of Nonsampling Error

Nonsampling error is a catch-all term for errors that are not a function of selecting and using a sample. They include errors that can occur during data collection and processing survey data. For example, while an interview is in progress, the respondent might make an error answering a question, or the interviewer might make an error asking a question or recording the answer. Sometimes interviews fail to take place or households provide incomplete data. Other examples of nonsampling error for the 2010 CCM include matching error, modeling error, and classification error. Unlike sampling error, nonsampling error is difficult to quantify.

3.3 Omissions

Omissions were estimated by subtracting the estimate of correct enumerations from the DSE. Because DSEs were not calculated for some estimation domains, we cannot provide omissions for some types of estimates.

4. Results for Housing Units

4.1 National Estimates of Components of Census Coverage

Table 1 shows the estimates and percentages of census coverage for housing units. The first part of the table shows how the census housing unit count of 131.68 million was divided among correct enumerations and erroneous enumerations. The CCM estimated that 128.18 million (97.3%) were correct enumerations and 3.49 million (2.7%) were erroneous enumerations. For the 128.18 million correct enumerations, the table provides more detail on where the housing unit was included in the census.

The CCM estimated that 126.51 million housing units (96.1%) were included in the correct block cluster. A block cluster was defined as one or more contiguous census blocks and averaged 30 housing units. These housing units were enumerated either exactly or very close to where they were supposed to be.

The CCM estimated that 1.53 million housing units (1.2%) should have been included within the one ring of surrounding blocks around the block cluster. These housing units were included close to, but slightly further away from their actual location.

In the course of doing field work, the CCM determined that 151,000 housing units (0.1%) were geocoded outside of the block cluster search area (defined as the block cluster and one ring of surrounding blocks around the block cluster). These are geocoding errors. Based on the limited searching outside of the CCM search area, this might be an underestimate of geocoding error.

The table also provides details about the 3.49 million erroneous enumerations in the 2010 Census. Of the total, 1.15 million (0.9%) were erroneous enumerations due to duplication and 2.34 million (1.8%) were erroneous enumerations for other reasons.

The next part of the table summarizes the CCM housing unit estimate. The CCM estimated that the number of housing units was 132.47 million. The CCM housing unit estimate was broken into two groups: correct enumerations and omissions. The correct enumerations were the same 128.18 estimate shown earlier. The percent estimate of 96.8 is different than shown earlier because the denominator was the CCM population estimate instead of the census count.

The CCM estimated that 4.28 million housing units were omitted from the census. Omissions are housing units that *should have been* enumerated in the United States, but were not.

Table 1: Components of Census Coverage for Housing Units at National Level (In Thousands)

Component of Census Coverage	Estimate	SE (EST)	Percent	SE (Percent)
Census Count	131,676	0	100.0	
Correct Enumerations ¹	128,184	147	97.3	0.1
Enumerated in the same block cluster	126,507	259	96.1	0.2
Enumerated in the surrounding blocks ²	1,526	188	1.2	0.1
Geocoded outside the search area ³	151	35	0.1	0.03
Erroneous Enumerations	3,492	147	2.7	0.1
Due to Duplication	1,154	93	0.9	0.07
For Other Reasons ⁴	2,338	115	1.8	0.09
Estimate of Population from the Census Coverage Measurement ⁵	132,467	266	100.0	
Correct Enumerations ¹	128,184	147	96.8	0.2
Omissions ⁶	4,283	230	3.2	0.2
Net Undercount	790	266	0.60*	0.20

1. For the national table, a housing unit is considered a correct enumeration if it was enumerated anywhere in the United States

2. More precisely, one ring of surrounding blocks around the sample block cluster.

3. For the definition of search area (block cluster search area), see accompanying text.

4. Other reasons include nonresidential (that is, group quarters, commercial, uninhabitable, and so on) or nonexistent (such as vacant lots, demolished, burned down and so on)

5. This number is the CCM estimate of housing units that should have been included in the CCM housing unit universe. It does not include group quarters or housing units in the Remote Alaska type of enumeration area.

6. Omissions are housing units that should have been enumerated in the United States, but were not.

An asterisk (*) denotes a percent net undercount that is significantly different than zero.

Note that correct and erroneous enumeration estimates in subsequent tables have been benchmarked to the national estimates in Table 1. This was done to ensure consistency across results.

4.2 Component Estimates by Housing Unit Characteristics

This section shows the estimates of components of census coverage by the following housing unit characteristics:

- Occupancy/Tenure
- Type of Structure
- Race and Hispanic Origin of the Householder
- American Indian Area

Occupancy/Tenure

Table 2 shows the components of census coverage for housing units by occupancy and tenure. Vacant housing units had higher percentages of erroneous enumeration due to other reasons (7.4% versus 1.1%) than occupied housing units. Within occupied housing units, renter-occupied units had higher percentages of erroneous enumerations due to duplication (1.3% versus 0.6%) and erroneous enumeration due to other reasons (1.5% versus 0.8%) than owner-occupied units. In addition, renter-occupied housing units had a larger percentage of omissions than owner-occupied units.

Table 2: Components of Census Coverage for Housing Units by Occupancy and Tenure

Occupancy and Tenure	Census Count (Thousands)	Correct (%)	Erroneous (%)		Population Estimate (Thousands)	Correct (%)	Pct Undercount (%)	Omissions (%)
			Duplication	Other Reasons				
U.S. Total	131,676 (0)	97.3 (0.1)	0.9 (<0.1)	1.8 (<0.1)	132,467 (266)	96.8 (0.2)	0.60* (0.20)	3.2 (0.2)
Occupied	116,699 (0)	98.1 (0.1)	0.8 (<0.1)	1.1 (<0.1)	116,735 (160)	98.1 (0.1)	0.03 (0.14)	1.9 (0.1)
Owner	75,975 (0)	98.6 (<0.1)	0.6 (<0.1)	0.8 (<0.1)	76,128 (91)	98.4 (0.1)	0.20* (0.12)	1.6 (0.1)
Renter	40,725 (0)	97.2 (0.3)	1.3 (0.2)	1.5 (0.2)	40,607 (125)	97.5 (0.2)	-0.29 (0.31)	2.5 (0.2)
Vacant	14,977 (0)	91.2 (0.4)	1.4 (0.1)	7.4 (0.4)	15,732 (174)	86.8 (0.8)	4.80* (1.06)	13.2 (0.8)

Standard errors are shown in parentheses below the estimate.

The 2010 Census count excludes housing units in Remote Alaska.

An asterisk (*) denotes a percent net undercount that is significantly different than zero.

Type of Structure

Table 3 shows the component results for housing unit structure type broken down by occupancy and tenure. The CCM estimated the coverage of housing units based on the type and size of the structure crossed by tenure. For 2010, type of structure was classified into four categories: single structures with one unit (single units) at the basic street address (BSA), small structures with 2 to 9 housing units at the BSA (small multi-units), large structures with 10 or more housing units at the BSA (large multi-units), and trailers. Estimates were generated for these groups by occupancy and tenure. Vacant small multi-units (13.1%) and vacant trailers (16.4%) had higher erroneous enumerations due to other reasons than vacant single units (4.8%) and vacant large multi-units (5.4%).

Table 3: Components of Census Coverage for Housing Units by Structure Type

Structure Type	Census Count (Thousands)	Correct (%)	Erroneous (%)		Population Estimate (Thousands)	Correct (%)	Pct Undercount (%)	Omissions (%)
			Duplication	Other Reasons				
U.S. Total	131,676 (0)	97.3 (0.1)	0.9 (<0.1)	1.8 (<0.1)	132,467 (266)	96.8 (0.2)	0.60* (0.20)	3.2 (0.2)
Single Unit	88,952 (0)	98.7 (<0.1)	0.5 (<0.1)	0.8 (<0.1)	89,850 (126)	97.7 (0.1)	1.00* (0.14)	2.3 (0.1)
Owner	65,597 (0)	99.3 (<0.1)	0.4 (<0.1)	0.4 (<0.1)	65,933 (73)	98.8 (0.1)	0.51* (0.11)	1.2 (0.1)
Renter	15,218 (0)	98.6 (0.1)	0.7 (<0.1)	0.7 (<0.1)	15,312 (27)	98.0 (0.2)	0.61* (0.17)	2.0 (0.2)
Vacant	8,137 (0)	94.3 (0.3)	0.9 (0.1)	4.8 (0.3)	8,605 (72)	89.2 (0.7)	5.44* (0.79)	10.8 (0.7)
Small Multi-Unit (2 to 9)	14,919 (0)	92.7 (0.3)	2.2 (0.2)	5.1 (0.3)	14,653 (113)	94.4 (0.7)	-1.82* (0.79)	5.6 (0.7)
Owner	3,249 (0)	91.0 (0.7)	2.7 (0.4)	6.3 (0.5)	3,069 (28)	96.3 (0.7)	-5.88* (0.96)	3.7 (0.7)
Renter	9,247 (0)	95.5 (0.4)	2.0 (0.3)	2.5 (0.2)	9,159 (42)	96.4 (0.4)	-0.96* (0.47)	3.6 (0.4)
Vacant	2,423 (0)	84.5 (1.1)	2.4 (0.4)	13.1 (1.1)	2,425 (84)	84.4 (2.8)	0.11 (3.50)	15.6 (2.8)
Large Multi-Unit (10+)	19,780 (0)	96.6 (0.6)	1.3 (0.4)	2.2 (0.5)	19,778 (157)	96.6 (0.7)	-0.01 (0.79)	3.4 (0.7)
Owner	2,388 (0)	97.4 (1.1)	0.5 (0.3)	2.1 (1.1)	2,343 (32)	99.3 (0.5)	-1.88 (1.39)	0.7 (0.5)
Renter	14,502 (0)	97.0 (0.7)	1.4 (0.5)	1.6 (0.5)	14,362 (107)	98.0 (0.6)	-0.97 (0.75)	2.0 (0.6)
Vacant	2,890 (0)	93.4 (1.4)	1.1 (0.4)	5.4 (1.4)	3,073 (116)	87.9 (3.2)	5.93* (3.59)	12.1 (3.2)
Trailer and Others	8,026 (0)	92.9 (0.6)	1.9 (0.3)	5.2 (0.4)	8,186 (76)	91.1 (0.7)	1.96* (0.91)	8.9 (0.7)
Owner	4,741 (0)	96.0 (0.5)	1.8 (0.4)	2.2 (0.2)	4,783 (37)	95.1 (0.6)	0.88 (0.77)	4.9 (0.6)
Renter	1,758 (0)	95.0 (1.0)	1.6 (0.4)	3.4 (1.0)	1,774 (19)	94.2 (0.7)	0.91 (1.07)	5.8 (0.7)
Vacant	1,527 (0)	81.0 (1.7)	2.7 (0.6)	16.4 (1.5)	1,629 (56)	75.9 (2.0)	6.25* (3.21)	24.1 (2.0)

Standard errors are shown in parentheses below the estimate.

The 2010 Census count excludes housing units in Remote Alaska.

An asterisk (*) denotes a percent net undercount that is significantly different than zero.

Race and Hispanic Origin of the Householder

Table 4 shows the components of census coverage by race and Hispanic origin of the householder broken down by tenure. Race results are shown for the race of the householder based on being reported alone-or-in-combination with other races. Because of this, a housing unit will fall into several rows if several races were reported by the householder.

Table 4: Components of Census Coverage for Housing Units by Race Alone-Or-In-Combination and Hispanic Origin of Householder

Race Alone-Or-In-Combination and Hispanic Origin of Householder	Census Count (Thousands)	Correct (%)	Erroneous (%)		Population Estimate (Thousands)	Correct (%)	Pct Undercount (%)	Omissions (%)
			Duplication	Other Reasons				
U.S. Occupied Total	116,699 (0)	98.1 (0.1)	0.8 (<0.1)	1.1 (<0.1)	116,735 (160)	98.1 (0.1)	0.03 (0.14)	1.9 (0.1)
White	91,510 (0)	98.3 (0.1)	0.7 (<0.1)	1.0 (<0.1)	91,669 (132)	98.1 (0.1)	0.17 (0.14)	1.9 (0.1)
Owner	64,297 (0)	98.8 (<0.1)	0.5 (<0.1)	0.7 (<0.1)	64,469 (72)	98.5 (0.1)	0.27* (0.11)	1.5 (0.1)
Renter	27,213 (0)	97.2 (0.3)	1.2 (0.2)	1.6 (0.3)	27,201 (109)	97.3 (0.3)	-0.04 (0.40)	2.7 (0.3)
Non-Hispanic White Alone	82,328 (0)	98.3 (0.1)	0.7 (<0.1)	1.0 (<0.1)	82,529 (133)	98.1 (0.1)	0.24 (0.16)	1.9 (0.1)
Owner	59,480 (0)	98.8 (<0.1)	0.5 (<0.1)	0.7 (<0.1)	59,658 (68)	98.5 (0.1)	0.30* (0.11)	1.5 (0.1)
Renter	22,847 (0)	97.2 (0.4)	1.2 (0.2)	1.7 (0.3)	22,870 (110)	97.1 (0.4)	0.10 (0.48)	2.9 (0.4)
Black	14,722 (0)	97.2 (0.3)	1.4 (0.2)	1.4 (0.2)	14,649 (36)	97.7 (0.2)	-0.50* (0.25)	2.3 (0.2)
Owner	6,479 (0)	97.8 (0.3)	1.0 (0.2)	1.2 (0.3)	6,470 (21)	98.0 (0.3)	-0.14 (0.32)	2.0 (0.3)
Renter	8,243 (0)	96.8 (0.4)	1.7 (0.4)	1.6 (0.3)	8,178 (26)	97.5 (0.3)	-0.79* (0.32)	2.5 (0.3)
American Indian and Alaskan Native	1,726 (0)	97.3 (0.4)	1.0 (0.2)	1.6 (0.3)	1,728 (6)	97.2 (0.5)	0.17 (0.33)	2.8 (0.5)
Owner	912 (0)	96.8 (0.5)	1.5 (0.4)	1.7 (0.4)	917 (4)	96.2 (0.7)	0.53 (0.47)	3.8 (0.7)
Renter	814 (0)	98.0 (0.6)	0.5 (0.2)	1.6 (0.6)	812 (3)	98.2 (0.6)	-0.25 (0.39)	1.8 (0.6)
Asian	5,223 (0)	98.7 (0.2)	0.7 (0.2)	0.6 (0.1)	5,198 (14)	99.2 (0.3)	-0.49* (0.27)	0.8 (0.3)
Owner	2,994 (0)	99.2 (0.2)	0.5 (0.1)	0.4 (<0.1)	2,986 (11)	99.4 (0.4)	-0.24 (0.37)	0.6 (0.4)
Renter	2,229 (0)	98.2 (0.4)	1.0 (0.4)	0.9 (0.2)	2,211 (7)	99.0 (0.4)	-0.82* (0.33)	1.0 (0.4)
Native Hawaiian or Pacific Islander	320 (0)	97.4 (0.6)	1.1 (0.4)	1.4 (0.4)	319 (1)	97.8 (0.6)	-0.40 (0.31)	2.2 (0.6)
Owner	149 (0)	98.0 (0.7)	0.5 (0.2)	1.5 (0.6)	149 (1)	98.2 (0.8)	-0.22 (0.40)	1.8 (0.8)
Renter	171 (0)	97.0 (0.9)	1.7 (0.7)	1.3 (0.6)	170 (1)	97.5 (1.0)	-0.56 (0.38)	2.5 (1.0)
Some Other Race	5,595 (0)	97.4 (0.4)	1.1 (0.3)	1.4 (0.2)	5,558 (13)	98.1 (0.3)	-0.67* (0.24)	1.9 (0.3)
Owner	2,272 (0)	97.7 (0.5)	1.0 (0.4)	1.3 (0.3)	2,263 (7)	98.1 (0.4)	-0.37 (0.29)	1.9 (0.4)
Renter	3,324 (0)	97.3 (0.4)	1.2 (0.4)	1.5 (0.2)	3,295 (11)	98.1 (0.3)	-0.88* (0.32)	1.9 (0.3)
Hispanic	13,461 (0)	97.7 (0.2)	1.0 (0.2)	1.3 (0.1)	13,385 (33)	98.2 (0.2)	-0.57* (0.25)	1.8 (0.2)
Owner	6,368 (0)	98.0 (0.3)	0.7 (0.2)	1.3 (0.2)	6,353 (19)	98.2 (0.3)	-0.24 (0.30)	1.8 (0.3)
Renter	7,093 (0)	97.4 (0.4)	1.3 (0.3)	1.3 (0.1)	7,032 (24)	98.3 (0.3)	-0.87* (0.34)	1.7 (0.3)

A housing unit can be included in multiple rows. The 2010 Census count excludes housing units in Remote Alaska. Standard errors are shown in parentheses below the estimate. An asterisk (*) denotes a percent net undercount that is significantly different than zero.

American Indian Area

Table 5 shows the results for American Indian Area¹ broken down by occupancy and tenure. The table shows the components of census coverage by whether the housing unit is on an American Indian Reservation, on an American Indian Area off Reservation, or is in the remainder of the country. Vacant units on American Indian Reservation had higher percentages of erroneous enumerations due to other reasons than vacant units in the balance of the United States (16.9% versus 7.3%).

Table 5: Components of Census Coverage for Housing Units by American Indian Area

American Indian Area	Census Count (Thousands)	Correct (%)	Erroneous (%)		Population Estimate (Thousands)	Correct (%)	Pct Undercount (%)	Omissions (%)
			Duplication	Other Reasons				
U.S. Total	131,676 (0)	97.3 (0.1)	0.9 (<0.1)	1.8 (<0.1)	132,467 (266)	96.8 (0.2)	0.60* (0.20)	3.2 (0.2)
On Reservation	414 (0)	92.7 (0.9)	1.9 (0.6)	5.4 (0.6)	436 (8)	87.9 (1.8)	5.13* (1.64)	12.1 (1.8)
Owner	234 (0)	95.3 (0.7)	1.9 (0.6)	2.8 (0.4)	240 (3)	92.9 (1.3)	2.43* (1.07)	7.1 (1.3)
Renter	99 (0)	95.5 (1.6)	2.4 (1.4)	2.1 (0.6)	102 (2)	92.8 (2.0)	2.84* (1.48)	7.2 (2.0)
Vacant	81 (0)	81.7 (2.7)	1.5 (0.4)	16.9 (2.7)	94 (4)	69.8 (3.8)	14.49* (3.78)	30.2 (3.8)
American Indian Area Off Reservation	1,672 (0)	94.6 (1.1)	2.6 (0.9)	2.8 (0.4)	1,688 (8)	93.7 (1.1)	0.96* (0.45)	6.3 (1.1)
Owner	996 (0)	96.6 (1.1)	2.4 (1.0)	1.0 (0.4)	999 (3)	96.3 (1.1)	0.30 (0.32)	3.7 (1.1)
Renter	458 (0)	95.5 (1.4)	2.4 (0.8)	2.1 (0.8)	458 (2)	95.4 (1.4)	0.04 (0.50)	4.6 (1.4)
Vacant	218 (0)	83.5 (3.1)	4.0 (2.0)	12.5 (1.9)	231 (4)	78.8 (3.2)	5.62* (1.76)	21.2 (3.2)
Balance of U.S.	129,590 (0)	97.4 (0.1)	0.9 (<0.1)	1.8 (<0.1)	130,342 (259)	96.8 (0.2)	0.58* (0.20)	3.2 (0.2)
Owner	74,744 (0)	98.7 (<0.1)	0.5 (<0.1)	0.8 (<0.1)	74,889 (88)	98.5 (<0.1)	0.19* (0.12)	1.5 (<0.1)
Renter	40,168 (0)	97.2 (0.3)	1.3 (0.2)	1.5 (0.2)	40,047 (123)	97.5 (0.2)	-0.30 (0.31)	2.5 (0.2)
Vacant	14,678 (0)	91.4 (0.4)	1.3 (0.1)	7.3 (0.4)	15,406 (170)	87.0 (0.8)	4.73* (1.05)	13.0 (0.8)

Standard errors are shown in parentheses below the estimate.

The 2010 Census count excludes housing units in Remote Alaska.

An asterisk (*) denotes a percent net undercount that is significantly different than zero.

¹ American Indian Areas are lands considered (either wholly or partially) on an American Indian Reservation/trust land, Oklahoma Tribal Statistical Area, Tribal Designated Statistical Area, or Alaska Native Village Statistical Area.

4.3 *Component Estimates for States, Counties, and Places*

States

Table 6 summarizes the components of census coverage for the states and the District of Columbia. The CCM produced estimates of correct and erroneous enumerations based on the direct estimate of the states while benchmarking to national totals. Since direct estimation was used, some of the states had high standard errors for correct and erroneous enumerations.

Counties

Table A1 (in Attachment A) summarizes the components of census coverage for the 128 counties with a total population greater than or equal to 500,000 people. An estimate for the balance of the state - all other counties within the state combined - is provided as well. Some states had no counties with a population greater than 500,000. For these states, just the state estimate is displayed.

Places

Table A2 (in Attachment A) summarizes the components of census coverage for the 33 places with a total population greater than or equal to 500,000 people. Similar to the county table, an estimate for the balance of the state is provided as well. Likewise, for states without a place meeting the population size criterion, just the state estimate is displayed.

Measures of uncertainty for States, Counties, and Places are in Attachment B. Tables B1, B2, and B3 reflect two different measurements of uncertainty depending on the column of interest. The rightmost four columns are an estimate of the root mean squared error. All other columns are an estimate of the standard error since they are direct estimates.

Table 6: Components of Census Coverage for Housing Units by State

STATE	Census Count (Thousands)	Correct (%)	Erroneous (%)		Population Estimate (Thousands)	Correct (%)	Pct Undercount (%)	Omissions (%)
			Duplication	Other Reasons				
U.S. Total	131,676.2	97.3	0.9	1.8	132,466.6	96.8	0.60*	3.2
Alabama	2,171.9	96.8	1.2	2.0	2,198.1	95.6	1.19	4.4
Alaska	278.4	96.0	0.9	3.2	283.5	94.2	1.79	5.8
Arizona	2,844.5	96.9	1.1	1.9	2,886.2	95.5	1.44	4.5
Arkansas	1,316.3	96.1	0.9	2.9	1,329.6	95.2	1.00	4.8
California	13,680.1	98.4	0.5	1.1	13,770.5	97.8	0.66	2.2
Colorado	2,212.9	98.8	0.4	0.7	2,232.2	98.0	0.86	2.0
Connecticut	1,487.9	98.1	1.2	0.7	1,482.2	98.4	-0.38	1.6
Delaware	405.9	98.5	0.5	1.0	410.2	97.4	1.06	2.6
District of Columbia	296.7	98.0	0.5	1.5	296.5	98.1	-0.07	1.9
Florida	8,989.6	97.6	1.0	1.4	9,080.2	96.6	1.00	3.4
Georgia	4,088.8	97.4	1.5	1.1	4,126.2	96.5	0.91	3.5
Hawaii	519.5	95.5	1.9	2.6	519.8	95.4	0.05	4.6
Idaho	667.8	97.4	1.0	1.6	679.8	95.7	1.77	4.3
Illinois	5,296.7	98.1	0.4	1.5	5,309.1	97.9	0.23	2.1
Indiana	2,795.5	98.9	0.3	0.8	2,816.6	98.1	0.75	1.9
Iowa	1,336.4	98.4	0.4	1.2	1,344.6	97.8	0.61	2.2
Kansas	1,233.2	98.7	0.5	0.8	1,240.4	98.1	0.58	1.9
Kentucky	1,927.2	96.4	1.3	2.3	1,939.3	95.8	0.62	4.2
Louisiana	1,965.0	96.2	1.3	2.6	1,981.5	95.4	0.83	4.6
Maine	721.8	91.2	0.4	8.4	723.4	91.0	0.21	9.0
Maryland	2,378.8	98.0	1.0	1.0	2,394.1	97.4	0.64	2.6
Massachusetts	2,808.3	95.4	1.7	2.9	2,803.6	95.6	-0.17	4.4
Michigan	4,532.2	97.3	0.5	2.3	4,575.4	96.3	0.94	3.7
Minnesota	2,347.2	96.3	2.6	1.1	2,368.7	95.4	0.91	4.6
Mississippi	1,274.7	94.4	1.7	3.9	1,281.8	93.9	0.55	6.1
Missouri	2,712.7	97.8	0.4	1.7	2,734.3	97.1	0.79	2.9
Montana	482.8	94.2	1.1	4.6	492.1	92.4	1.89	7.6
Nebraska	796.8	97.8	0.3	1.9	802.2	97.2	0.67	2.8
Nevada	1,173.8	99.4	0.2	0.3	1,187.6	98.3	1.16	1.7
New Hampshire	614.8	95.3	0.7	4.0	618.9	94.6	0.67	5.4
New Jersey	3,553.6	98.5	0.4	1.2	3,537.1	98.9	-0.47	1.1
New Mexico	901.4	94.1	1.3	4.6	913.5	92.9	1.33	7.1
New York	8,108.1	95.9	0.7	3.4	8,016.9	97.0	-1.14	3.0
North Carolina	4,327.5	95.1	2.4	2.4	4,372.9	94.2	1.04	5.8
North Dakota	317.5	98.1	0.5	1.4	321.8	96.8	1.32	3.2
Ohio	5,127.5	98.3	0.4	1.3	5,158.4	97.7	0.60	2.3
Oklahoma	1,664.4	96.2	1.5	2.4	1,672.9	95.7	0.51	4.3
Oregon	1,675.6	98.5	0.1	1.4	1,696.6	97.3	1.24	2.7
Pennsylvania	5,567.3	97.5	1.0	1.5	5,564.3	97.6	-0.05	2.4
Rhode Island	463.4	97.9	0.5	1.7	461.8	98.2	-0.33	1.8
South Carolina	2,137.7	96.8	0.6	2.6	2,162.8	95.7	1.16	4.3
South Dakota	363.4	96.5	0.9	2.6	368.6	95.2	1.41	4.8
Tennessee	2,812.1	97.4	0.8	1.7	2,831.2	96.8	0.67	3.2
Texas	9,977.4	97.8	0.9	1.3	10,040.7	97.2	0.63	2.8
Utah	979.7	96.5	2.1	1.4	992.0	95.3	1.24	4.7
Vermont	322.5	95.1	1.4	3.5	322.9	95.0	0.13	5.0
Virginia	3,364.9	97.6	0.7	1.7	3,390.5	96.8	0.75	3.2
Washington	2,885.7	98.2	0.4	1.4	2,915.1	97.3	1.01	2.7
West Virginia	881.9	93.6	1.9	4.6	890.4	92.7	0.95	7.3
Wisconsin	2,624.4	98.1	0.6	1.3	2,662.0	96.7	1.41	3.3
Wyoming	261.9	96.8	1.2	2.0	265.8	95.3	1.47	4.7

The 2010 Census count excludes housing units in Remote Alaska.

An asterisk (*) denotes a percent net undercount that is significantly different than zero.

4.4 Component Estimates by Census Regions

Table 7 provides the housing unit component estimates for census regions broken down by occupancy and tenure. Renter-occupied units in the Northeast had a higher percentage of erroneous enumerations due to other reasons (3.4% versus 1.1%) than owner-occupied units.

Table 7: Components of Census Coverage for Housing Units by Region

Region	Census Count (Thousands)	Correct (%)	Erroneous (%)		Population Estimate (Thousands)	Correct (%)	Pct Undercount (%)	Omissions (%)
			Duplication	Other Reasons				
U.S. Total	131,676 (0)	97.3 (0.1)	0.9 (<0.1)	1.8 (<0.1)	132,467 (266)	96.8 (0.2)	0.60* (0.20)	3.2 (0.2)
Northeast	23,648 (0)	96.6 (0.4)	0.9 (0.2)	2.6 (0.4)	23,531 (112)	97.0 (0.3)	-0.50 (0.48)	3.0 (0.3)
Owner	13,203 (0)	98.6 (0.2)	0.4 (0.1)	1.1 (0.1)	13,135 (35)	99.1 (0.3)	-0.51* (0.27)	0.9 (0.3)
Renter	8,013 (0)	95.2 (1.0)	1.4 (0.4)	3.4 (0.9)	7,909 (43)	96.5 (0.8)	-1.31* (0.55)	3.5 (0.8)
Vacant	2,432 (0)	90.3 (1.0)	1.7 (0.3)	8.0 (1.0)	2,487 (50)	88.3 (1.9)	2.20 (1.97)	11.7 (1.9)
Midwest	29,484 (0)	97.9 (0.2)	0.6 (0.2)	1.4 (0.2)	29,702 (129)	97.2 (0.3)	0.74* (0.43)	2.8 (0.3)
Owner	18,147 (0)	99.2 (<0.1)	0.4 (<0.1)	0.5 (<0.1)	18,205 (33)	98.8 (0.2)	0.32* (0.18)	1.2 (0.2)
Renter	8,069 (0)	97.5 (0.7)	1.2 (0.6)	1.3 (0.5)	8,071 (51)	97.4 (0.6)	0.03 (0.63)	2.6 (0.6)
Vacant	3,268 (0)	92.1 (0.6)	0.8 (0.3)	7.1 (0.5)	3,425 (56)	87.9 (1.4)	4.61* (1.55)	12.1 (1.4)
South	49,981 (0)	97.0 (0.2)	1.2 (0.1)	1.8 (0.2)	50,399 (179)	96.2 (0.3)	0.83* (0.35)	3.8 (0.3)
Owner	29,100 (0)	98.3 (0.2)	0.9 (0.1)	0.9 (<0.1)	29,196 (60)	97.9 (0.2)	0.33 (0.20)	2.1 (0.2)
Renter	14,510 (0)	97.2 (0.4)	1.6 (0.3)	1.1 (0.2)	14,478 (55)	97.5 (0.3)	-0.22 (0.38)	2.5 (0.3)
Vacant	6,371 (0)	90.9 (0.7)	1.6 (0.2)	7.5 (0.7)	6,725 (108)	86.1 (1.3)	5.27* (1.52)	13.9 (1.3)
West	28,564 (0)	98.0 (0.2)	0.6 (0.1)	1.4 (0.1)	28,835 (109)	97.1 (0.3)	0.94* (0.37)	2.9 (0.3)
Owner	15,525 (0)	98.9 (0.1)	0.4 (<0.1)	0.7 (<0.1)	15,591 (37)	98.4 (0.3)	0.43* (0.24)	1.6 (0.3)
Renter	10,133 (0)	98.4 (0.3)	0.7 (0.2)	0.8 (0.1)	10,149 (30)	98.3 (0.3)	0.16 (0.30)	1.7 (0.3)
Vacant	2,906 (0)	91.7 (1.4)	1.3 (0.3)	7.1 (1.3)	3,094 (55)	86.1 (1.6)	6.08* (1.68)	13.9 (1.6)

Standard errors are shown in parentheses below the estimate.

The 2010 Census count excludes housing units in Remote Alaska.

An asterisk (*) denotes a percent net undercount that is significantly different than zero.

4.5 *Component Estimates by Census Operational Areas*

This section summarizes the coverage results for geographic areas associated with how the census was conducted. For census operational geography, we generated estimates for:

- Type of Enumeration Area (TEA)
- Address Characteristic Type (ACT)
- Bilingual Mailing Areas
- Replacement Mailing Areas

Type of Enumeration Area

Table 8 shows the components of census coverage by TEA broken down by occupancy and tenure. The TEA accounts for how we obtained addresses and conducted the census in an area. We provide estimates by combining six TEAs into three main categories. (The Remote Alaska TEA is out of scope.)

The first was “Mailout/Mailback,” which included the Mailout/Mailback and the Military Mailout/Mailback TEAs. We mailed questionnaires to the housing units and instructed respondents to return the form by mail.

The second category was the “Update/Leave,” which included the Update/Leave and the Urban Update/Leave TEAs. A census worker updated the address list and delivered questionnaires to each address on the updated list. Respondents were to return the form by mail.

The third was the “Update/Enumerate,” which included the Remote Update/Enumerate and the Update/Enumerate TEAs. A census enumerator updated the address list and conducted the enumeration at each housing unit on the updated list.

Table 8 shows that Update/Leave areas had higher percentages of erroneous enumerations due to duplication for total housing units than the other two TEA groups. Estimates of omissions were larger for the Update/Leave areas (6.5%) than for the Mailout/Mailback areas (2.8%).

Table 8: Components of Census Coverage for Housing Units by Type of Enumeration Area

Type of Enumeration Area	Census Count (Thousands)	Correct (%)	Erroneous (%)		Population Estimate (Thousands)	Correct (%)	Pct Undercount (%)	Omissions (%)
			Duplication	Other Reasons				
U.S. Total	131,676 (0)	97.3 (0.1)	0.9 (<0.1)	1.8 (<0.1)	132,467 (266)	96.8 (0.2)	0.60* (0.20)	3.2 (0.2)
Mailout/Mailback	119,927 (0)	97.6 (0.1)	0.8 (<0.1)	1.6 (<0.1)	120,495 (233)	97.2 (0.2)	0.47* (0.19)	2.8 (0.2)
Owner	69,373 (0)	98.8 (<0.1)	0.5 (<0.1)	0.7 (<0.1)	69,520 (84)	98.6 (<0.1)	0.21* (0.12)	1.4 (<0.1)
Renter	38,523 (0)	97.3 (0.3)	1.2 (0.2)	1.5 (0.2)	38,415 (118)	97.6 (0.3)	-0.28 (0.31)	2.4 (0.3)
Vacant	12,031 (0)	91.9 (0.5)	1.0 (0.1)	7.1 (0.5)	12,560 (141)	88.0 (0.9)	4.21* (1.08)	12.0 (0.9)
Update/Leave	10,375 (0)	94.3 (0.4)	2.1 (0.2)	3.6 (0.2)	10,472 (71)	93.5 (0.6)	0.92 (0.67)	6.5 (0.6)
Owner	6,064 (0)	96.5 (0.3)	1.5 (0.2)	2.0 (0.2)	6,054 (26)	96.7 (0.4)	-0.16 (0.44)	3.3 (0.4)
Renter	1,999 (0)	95.4 (0.6)	2.5 (0.5)	2.1 (0.4)	1,983 (17)	96.2 (0.9)	-0.84 (0.86)	3.8 (0.9)
Vacant	2,312 (0)	87.6 (1.0)	3.1 (0.5)	9.3 (0.8)	2,434 (50)	83.2 (1.8)	5.03* (1.95)	16.8 (1.8)
Update/Enumerate	1,374 (0)	94.6 (0.8)	1.0 (0.3)	4.4 (0.7)	1,500 (44)	86.6 (2.6)	8.44* (2.72)	13.4 (2.6)
Owner	538 (0)	97.3 (0.6)	0.6 (0.2)	2.1 (0.6)	554 (7)	94.5 (1.3)	2.84* (1.16)	5.5 (1.3)
Renter	202 (0)	96.6 (1.1)	0.5 (0.2)	2.9 (1.1)	209 (4)	93.2 (2.1)	3.46* (1.97)	6.8 (2.1)
Vacant	634 (0)	91.7 (1.6)	1.4 (0.6)	6.9 (1.3)	737 (35)	78.8 (3.8)	14.05* (4.13)	21.2 (3.8)

Standard errors are shown in parentheses below the estimate.

The 2010 Census count excludes housing units in Remote Alaska.

An asterisk (*) denotes a percent net undercount that is significantly different than zero.

Address Characteristic Type

Table 9 shows the housing unit component estimates for ACT broken down by occupancy and tenure. The ACT classified a collection block to the predominant type of address in the block (city-style, rural route, P.O. Box, etc.) and whether or not the address was carried in the United States Postal Service Delivery Sequence File (DSF). The ACT classification was done prior to the start of 2010 Census operations; consequently, it does not reflect updates from Address Canvassing or later operations. There are 28 values of ACT. The CCM estimation summarized them to eight categories that were generally based on whether the block contained city-style or noncity-style addresses and the extent of DSF coverage. While the ACT was not specifically a census operation, it was the basis for defining the TEA. Renter-occupied units in city-style all DSF blocks had a higher percentage of erroneous enumeration due to other reasons than owner-occupied units (1.1% versus 0.3%).

Table 9: Components of Census Coverage for Housing Units by Address Characteristic Type

Address Characteristic Type	Census Count (Thousands)	Correct (%)	Erroneous (%)		Population Estimate (Thousands)	Correct (%)	Pct Undercount (%)	Omissions (%)
			Duplication	Other Reasons				
U.S. Total	131,676 (0)	97.3 (0.1)	0.9 (<0.1)	1.8 (<0.1)	132,467 (266)	96.8 (0.2)	0.60* (0.20)	3.2 (0.2)
City-style, all DSF	65,615 (0)	98.6 (0.2)	0.5 (0.1)	0.9 (0.1)	65,975 (112)	98.1 (0.2)	0.54* (0.17)	1.9 (0.2)
Owner	39,757 (0)	99.4 (<0.1)	0.3 (<0.1)	0.3 (<0.1)	39,888 (41)	99.1 (0.1)	0.33* (0.10)	0.9 (0.1)
Renter	20,339 (0)	98.2 (0.4)	0.7 (0.3)	1.1 (0.3)	20,321 (65)	98.3 (0.3)	-0.09 (0.32)	1.7 (0.3)
Vacant	5,519 (0)	94.7 (0.7)	0.6 (0.1)	4.7 (0.7)	5,766 (64)	90.7 (1.0)	4.28* (1.07)	9.3 (1.0)
City-style, some DSF	38,934 (0)	96.7 (0.2)	1.0 (0.1)	2.2 (0.1)	39,004 (77)	96.6 (0.2)	0.18 (0.20)	3.4 (0.2)
Owner	19,910 (0)	98.2 (0.2)	0.5 (<0.1)	1.3 (0.1)	19,887 (28)	98.4 (0.1)	-0.12 (0.14)	1.6 (0.1)
Renter	14,615 (0)	96.8 (0.3)	1.6 (0.3)	1.6 (0.2)	14,528 (45)	97.4 (0.4)	-0.60* (0.31)	2.6 (0.4)
Vacant	4,409 (0)	89.7 (0.7)	1.5 (0.3)	8.7 (0.7)	4,590 (52)	86.2 (1.1)	3.93* (1.09)	13.8 (1.1)
City-style, no DSF	769 (0)	97.2 (0.8)	1.4 (0.5)	1.4 (0.4)	786 (4)	95.1 (0.9)	2.20* (0.53)	4.9 (0.9)
Owner	395 (0)	98.2 (0.6)	1.2 (0.5)	0.7 (0.4)	397 (1)	97.7 (0.7)	0.49* (0.29)	2.3 (0.7)
Renter	172 (0)	98.2 (1.2)	0.6 (0.5)	1.3 (0.8)	172 (1)	98.2 (1.4)	-0.04 (0.61)	1.8 (1.4)
Vacant	201 (0)	94.5 (2.2)	2.4 (1.5)	3.1 (1.2)	217 (3)	87.8 (2.2)	7.11* (1.41)	12.2 (2.2)
City-style and noncity-style, all DSF or where city-style ≥ 85%	16,161 (0)	95.9 (0.5)	1.4 (0.2)	2.7 (0.4)	16,351 (53)	94.8 (0.4)	1.16* (0.32)	5.2 (0.4)
Owner	10,423 (0)	97.9 (0.2)	1.1 (0.2)	1.0 (0.1)	10,466 (21)	97.5 (0.3)	0.42* (0.20)	2.5 (0.3)
Renter	3,381 (0)	94.4 (1.9)	2.1 (0.6)	3.4 (1.9)	3,377 (18)	94.5 (1.5)	-0.11 (0.52)	5.5 (1.5)
Vacant	2,358 (0)	89.0 (1.1)	1.6 (0.3)	9.4 (1.1)	2,508 (32)	83.7 (1.3)	5.98* (1.21)	16.3 (1.3)
City-style and noncity-style, no DSF or where city-style ≤ 84.99%	7,075 (0)	93.1 (0.5)	2.5 (0.3)	4.4 (0.3)	7,190 (51)	91.6 (0.7)	1.60* (0.70)	8.4 (0.7)
Owner	4,081 (0)	95.7 (0.5)	2.2 (0.4)	2.1 (0.2)	4,080 (18)	95.7 (0.5)	-0.03 (0.44)	4.3 (0.5)
Renter	1,101 (0)	93.3 (0.9)	3.5 (0.8)	3.2 (0.5)	1,097 (12)	93.7 (1.2)	-0.43 (1.10)	6.3 (1.2)
Vacant	1,892 (0)	87.5 (1.1)	2.5 (0.5)	10.0 (0.9)	2,013 (40)	82.2 (1.9)	6.00* (1.89)	17.8 (1.9)
Assorted noncity-style	475 (0)	86.7 (3.2)	2.2 (1.4)	11.1 (2.5)	482 (7)	85.3 (3.4)	1.59 (1.34)	14.7 (3.4)
Owner	258 (0)	93.6 (1.6)	0.4 (0.3)	6.0 (1.6)	255 (2)	94.8 (1.8)	-1.27 (0.92)	5.2 (1.8)
Renter	63 (0)	79.5 (16.5)	0.8 (0.7)	19.7 (15.8)	62 (1)	79.8 (16.5)	-0.35 (1.47)	20.2 (16.5)
Vacant	154 (0)	78.1 (6.8)	5.7 (4.1)	16.2 (4.0)	165 (5)	72.8 (6.7)	6.74* (2.89)	27.2 (6.7)
Business, Post Office, Rural Route, and Others	451 (0)	96.0 (1.9)	1.1 (0.6)	2.9 (1.5)	453 (3)	95.5 (2.1)	0.57 (0.59)	4.5 (2.1)
Owner	147 (0)	94.5 (2.5)	2.4 (1.4)	3.1 (1.8)	146 (1)	95.1 (2.6)	-0.61 (0.45)	4.9 (2.6)
Renter	211 (0)	99.3 (0.9)	0.7 (0.9)	0.0 (<0.1)	209 (2)	100.0 (1.2)	-0.88 (0.72)	0.0 (1.2)
Vacant	92 (0)	91.0 (6.6)	0.0 (<0.1)	9.0 (6.6)	98 (2)	86.0 (6.5)	5.44* (2.07)	14.0 (6.5)
No Addresses Found	2,197 (0)	97.2 (0.8)	1.5 (0.7)	1.3 (0.3)	2,225 (9)	96.0 (0.8)	1.25* (0.39)	4.0 (0.8)
Owner	1,004 (0)	98.9 (0.3)	0.5 (0.2)	0.6 (0.2)	1,009 (3)	98.3 (0.4)	0.57* (0.27)	1.7 (0.4)
Renter	843 (0)	96.9 (1.7)	2.6 (1.6)	0.5 (0.4)	840 (4)	97.2 (1.8)	-0.31 (0.50)	2.8 (1.8)
Vacant	351 (0)	93.1 (2.1)	1.8 (0.7)	5.2 (1.7)	376 (6)	86.9 (2.2)	6.58* (1.52)	13.1 (2.2)

Standard errors are shown in parentheses below the estimate.
The 2010 Census count excludes housing units in Remote Alaska.
An asterisk (*) denotes a percent net undercount that is significantly different than zero.

Bilingual Mailing Areas

Table 10 shows the components of census coverage of bilingual mailing areas broken down by occupancy and tenure. For the 2010 Census, the Census Bureau mailed a bilingual (English and Spanish) census questionnaire to housing units in select areas that could require Spanish language assistance to complete their census form. For more information on bilingual mailing, see Bentley (2008) or Rothhaas et al. (2011). We estimated coverage for the areas that received the bilingual questionnaire versus the remainder of the country. Vacant housing units in bilingual mailing areas had a higher percentage of erroneous enumeration due to other reasons than owner- and renter-occupied units (6.4% versus 1.4%).

Table 10: Components of Census Coverage for Housing Units by Bilingual Mailing Areas

Bilingual Mailing Area	Census Count (Thousands)	Correct (%)	Erroneous (%)		Population Estimate (Thousands)	Correct (%)	Pct Undercount (%)	Omissions (%)
			Duplication	Other Reasons				
U.S. Total	131,676 (0)	97.3 (0.1)	0.9 (<0.1)	1.8 (<0.1)	132,467 (266)	96.8 (0.2)	0.60* (0.20)	3.2 (0.2)
Bilingual Mailing Area	12,193 (0)	97.0 (0.4)	1.1 (0.3)	1.9 (0.2)	12,092 (63)	97.8 (0.3)	-0.84 (0.52)	2.2 (0.3)
Owner	5,071 (0)	97.9 (0.3)	0.7 (0.2)	1.4 (0.2)	5,032 (17)	98.7 (0.4)	-0.77* (0.35)	1.3 (0.4)
Renter	5,964 (0)	97.1 (0.7)	1.4 (0.6)	1.4 (0.2)	5,889 (29)	98.4 (0.4)	-1.27* (0.50)	1.6 (0.4)
Vacant	1,159 (0)	92.0 (1.3)	1.6 (0.5)	6.4 (1.3)	1,171 (24)	91.0 (1.9)	1.07 (2.03)	9.0 (1.9)
Balance of U.S.	119,483 (0)	97.4 (0.1)	0.9 (<0.1)	1.8 (<0.1)	120,374 (276)	96.7 (0.2)	0.74* (0.23)	3.3 (0.2)
Owner	70,904 (0)	98.7 (<0.1)	0.6 (<0.1)	0.7 (<0.1)	71,096 (88)	98.4 (0.1)	0.27* (0.12)	1.6 (0.1)
Renter	34,761 (0)	97.2 (0.3)	1.2 (0.2)	1.6 (0.3)	34,718 (126)	97.3 (0.3)	-0.12 (0.36)	2.7 (0.3)
Vacant	13,818 (0)	91.1 (0.4)	1.4 (0.1)	7.5 (0.4)	14,560 (167)	86.5 (0.9)	5.10* (1.09)	13.5 (0.9)

Standard errors are shown in parentheses below the estimate.

The 2010 Census count excludes housing units in Remote Alaska.

An asterisk (*) denotes a percent net undercount that is significantly different than zero.

Replacement Mailing Areas

Table 11 shows the components of census coverage by replacement mailing areas broken down by occupancy and tenure. For the 2010 Census, the Census Bureau mailed a replacement mailing package to some housing units in Mailout/Mailback areas of the country that had low mail response in Census 2000. Areas with low response in Census 2000 had a blanket distribution where all housing units received a replacement mailing. For areas with mid-range response in 2000, only nonresponding housing units received a replacement mailing; this is referred to as targeted distribution. The balance of the United States did not receive a replacement questionnaire in the mail. We provided separate estimates for the two types of replacement mailing areas (blanketed and targeted) and the balance of the United States. For more information on the replacement mailing areas and the official counts, see Letourneau (2010).

Table 11: Components of Census Coverage for Housing Units by Replacement Mailing Areas

Replacement Mailing Area	Census Count (Thousands)	Correct (%)	Erroneous (%)		Population Estimate (Thousands)	Correct (%)	Pct Undercount (%)	Omissions (%)
			Duplication	Other Reasons				
U.S. Total	131,676 (0)	97.3 (0.1)	0.9 (<0.1)	1.8 (<0.1)	132,467 (266)	96.8 (0.2)	0.60* (0.20)	3.2 (0.2)
Blanketed Mailing Area	25,332 (0)	95.8 (0.3)	1.1 (0.2)	3.1 (0.3)	25,414 (109)	95.5 (0.3)	0.32 (0.43)	4.5 (0.3)
Owner	10,133 (0)	97.3 (0.3)	0.9 (0.2)	1.8 (0.3)	10,102 (32)	97.6 (0.3)	-0.31 (0.32)	2.4 (0.3)
Renter	10,844 (0)	96.7 (0.5)	1.3 (0.3)	2.1 (0.4)	10,758 (46)	97.5 (0.4)	-0.80* (0.43)	2.5 (0.4)
Vacant	4,354 (0)	90.4 (1.1)	1.0 (0.2)	8.6 (1.1)	4,554 (63)	86.4 (1.2)	4.39* (1.32)	13.6 (1.2)
Targeted Mailing Area	28,753 (0)	96.9 (0.4)	1.2 (0.2)	2.0 (0.3)	28,745 (131)	96.9 (0.3)	-0.03 (0.46)	3.1 (0.3)
Owner	14,940 (0)	98.3 (0.2)	0.8 (0.2)	0.9 (<0.1)	14,925 (41)	98.4 (0.3)	-0.10 (0.27)	1.6 (0.3)
Renter	10,735 (0)	96.5 (0.8)	1.5 (0.4)	1.9 (0.7)	10,655 (50)	97.3 (0.6)	-0.74 (0.47)	2.7 (0.6)
Vacant	3,079 (0)	91.1 (0.9)	1.5 (0.4)	7.4 (0.8)	3,164 (60)	88.6 (1.6)	2.70 (1.85)	11.4 (1.6)
Balance of U.S.	77,592 (0)	98.0 (0.1)	0.7 (<0.1)	1.3 (<0.1)	78,308 (184)	97.1 (0.2)	0.91* (0.23)	2.9 (0.2)
Owner	50,902 (0)	99.0 (<0.1)	0.4 (<0.1)	0.6 (<0.1)	51,101 (61)	98.6 (0.1)	0.39* (0.12)	1.4 (0.1)
Renter	19,146 (0)	97.8 (0.4)	1.1 (0.3)	1.0 (0.2)	19,193 (69)	97.6 (0.4)	0.25 (0.36)	2.4 (0.4)
Vacant	7,544 (0)	91.7 (0.4)	1.6 (0.2)	6.7 (0.4)	8,013 (102)	86.3 (1.1)	5.86* (1.2)	13.7 (1.1)

Standard errors are shown in parentheses below the estimate.

The 2010 Census count excludes housing units in Remote Alaska.

An asterisk (*) denotes a percent net undercount that is significantly different than zero.

4.6 *Census Coverage Results for Census Operational Outcomes*

The section summarizes the components of census coverage for housing units based on the results of the census operations. This includes Mail Return Status and Nonresponse Followup (NRFU). The components of census coverage discussed are correct enumerations and erroneous enumerations. Because operational outcomes are characteristics of the census records that we cannot measure in the P sample, we cannot generate DSEs for census operational outcomes. Therefore, this section does not show estimates of net coverage or omissions.

Mail Return Eligible Cases

Table 12 shows the housing unit component results by mail return status broken down by occupancy and tenure.

The mail return universe included all occupied housing units in mailback TEAs that had addresses that were not checked in as undeliverable as addressed (UAA) and were not pre-identified as having inadequate addresses for mailout. In addition to showing estimates by the date of the mail return, we show the component estimates for housing units in the mail return universe that did not send back a valid return.

For completeness, the table also shows the component structure of the approximately 22.80 million housing units that were not in the mail return universe. These included housing units that were a) in Update/Enumerate and Remote Update/Enumerate TEAs, b) in mailback areas whose addresses were pre-identified as having inadequate address information for mailing, c) determined to be UAA, d) not eligible for NRFU, but were eligible for supplemental NRFU, e) units deleted during the Update/Leave operation that were later determined to be occupied or vacant, or f) vacant units. The housing units not in the mail return universe had an estimated 3.1% erroneous enumerations due to duplication and 6.6% erroneous enumerations due to other reasons. Valid return groups had correct enumeration rates ranging from 98.6% to 99.3%.

Letourneau (2012) has more information on the mailback operation and the official counts.

Table 12: Components of Census Coverage for Housing Units by Mail Return Date and Other Groups

Mail Returns	Census Count (Thousands)	Correct (%)	Erroneous (%)	
			Duplication	Other Reasons
U.S. Total	131,676 (0)	97.3 (0.1)	0.9 (<0.1)	1.8 (<0.1)
Valid Return, 2/25-3/17	3,475 (0)	98.9 (0.2)	0.3 (<0.1)	0.8 (0.1)
Owner	2,809 (0)	99.0 (0.2)	0.2 (<0.1)	0.8 (0.2)
Renter	666 (0)	98.3 (0.5)	0.5 (0.3)	1.2 (0.4)
Valid Return, 3/18-3/24	34,682 (0)	99.3 (<0.1)	0.2 (<0.1)	0.5 (<0.1)
Owner	26,017 (0)	99.5 (<0.1)	0.2 (<0.1)	0.4 (<0.1)
Renter	8,665 (0)	98.8 (0.2)	0.3 (<0.1)	0.9 (0.2)
Valid Return, 3/25-3/31	25,462 (0)	99.2 (<0.1)	0.3 (<0.1)	0.5 (<0.1)
Owner	18,101 (0)	99.4 (<0.1)	0.2 (<0.1)	0.4 (<0.1)
Renter	7,361 (0)	98.8 (0.2)	0.5 (0.1)	0.7 (0.1)
Valid Return, 4/1-4/7	11,277 (0)	99.0 (0.1)	0.3 (<0.1)	0.7 (<0.1)
Owner	7,508 (0)	99.1 (0.1)	0.2 (<0.1)	0.7 (0.1)
Renter	3,770 (0)	98.8 (0.2)	0.5 (0.1)	0.7 (0.2)
Valid Return, 4/8-4/15	5,311 (0)	98.7 (0.2)	0.4 (0.1)	0.9 (0.1)
Owner	3,290 (0)	99.3 (0.2)	0.2 (<0.1)	0.6 (0.1)
Renter	2,021 (0)	97.7 (0.5)	0.9 (0.4)	1.4 (0.3)
Valid Return, 4/16-4/30	4,598 (0)	98.6 (0.2)	0.4 (<0.1)	0.9 (0.2)
Owner	2,711 (0)	98.7 (0.3)	0.3 (0.1)	1.0 (0.2)
Renter	1,887 (0)	98.5 (0.3)	0.6 (0.2)	0.9 (0.2)
Valid Return, 5/1-9/7	1,527 (0)	99.1 (0.3)	0.3 (0.1)	0.6 (0.2)
Owner	891 (0)	99.6 (0.2)	0.2 (0.1)	0.2 (0.1)
Renter	636 (0)	98.3 (0.6)	0.5 (0.3)	1.2 (0.5)
No Valid Return	22,548 (0)	97.6 (0.2)	1.0 (0.2)	1.5 (0.1)
Owner	10,165 (0)	97.8 (0.2)	0.7 (0.1)	1.4 (0.1)
Renter	12,383 (0)	97.4 (0.3)	1.1 (0.3)	1.5 (0.2)
Not in Mail Return Universe	22,797 (0)	90.3 (0.5)	3.1 (0.3)	6.6 (0.4)
Owner	4,485 (0)	90.9 (0.9)	5.2 (0.5)	3.9 (0.7)
Renter	3,335 (0)	85.4 (2.2)	7.8 (1.4)	6.8 (2.0)
Vacant	14,977 (0)	91.2 (0.4)	1.4 (0.1)	7.4 (0.4)

Standard errors are shown in parentheses below the estimate.
The 2010 Census count excludes housing units in Remote Alaska.

Nonresponse Followup Cases

The 2010 NRFU Operation included four field operations:

- NRFU Field Operation
- NRFU Reinterview (RI)
- NRFU Vacant Delete Check (VDC), and
- NRFU Residual

The NRFU field operation primarily involved census enumerators interviewing and verifying the status of housing units in areas that received a mailback 2010 Census questionnaire but did not respond by mail. NRFU RI was a quality control check on the enumerators' work during the NRFU field operation. The NRFU VDC operation verified housing units determined to be vacant or nonexistent during the NRFU field operation. Additionally, NRFU VDC included a first-time enumeration of housing units.

The NRFU Residual operation came about because monitoring of the NRFU field operation detected a potentially large number of occupied housing units lacking information about the number of people living in the housing unit. The NRFU Residual operation was the last attempt to complete a full interview for this type of unit. Its workload also included housing units from the NRFU field operation for which a questionnaire was completed, but no data were captured for the case in the data capture system. Jackson et al. (2012) assesses the 2010 NRFU operation and provides official workload totals and more detailed information about the operation. Differences in counts between the census assessment and the CCM occur because we evaluated only the housing units included in the final census while the NRFU assessment covers housing units deleted during census processing in addition to housing units included in the final census.

Tables 13 through 16 show the components of census coverage for each of the four NRFU operations. The component structure of all housing units is itemized in each table, albeit in different rows. For example, consider an occupied housing unit that was contacted as part of the NRFU field operation and NRFU RI, but was not contacted as part of NRFU VDC or NRFU Residual. As a result, the component structure of that housing unit is itemized in

- one of the five completion month categories in Table 13 (April, May, June, July and August, or Unknown Month)
- one of the four completion month categories in Table 14 (April and May, June, July and August, or Unknown Month)
- the "Not in NRFU VDC, but in another NRFU operation" category of Table 15
- the "Not in NRFU Residual, but in another NRFU operation" category of Table 16

In addition, consider an occupied housing unit that was not contacted in any NRFU operation. This housing unit is included in the "Not in any NRFU Universe" category for all four tables.

NRFU Field Operation

For housing units that were part of the NRFU field operation, Table 13 shows the components of census coverage. As a contrast, the table also shows the components for housing units that were in another operation besides the NRFU field operation and those not in any NRFU universe.

Owner-occupied NRFU housing units responding in June had a higher percentage of erroneous enumeration due to other reasons than owner-occupied NRFU housing units responding in May (3.7% versus 1.5%).

Table 13: Components of Census Coverage for Housing Units by Nonresponse Followup Field Operation

Nonresponse Followup Field Operation	Census Count (Thousands)	Correct (%)	Erroneous (%)	
			Duplication	Other Reasons
U.S. Total	131,676 (0)	97.3 (0.1)	0.9 (<0.1)	1.8 (<0.1)
April	905 (0)	95.8 (0.7)	1.4 (0.6)	2.8 (0.6)
May	33,211 (0)	95.4 (0.2)	1.1 (0.1)	3.5 (0.2)
Owner	11,002 (0)	97.5 (0.2)	1.0 (0.1)	1.5 (0.1)
Renter	11,554 (0)	96.6 (0.4)	1.4 (0.3)	2.0 (0.3)
Vacant	10,654 (0)	92.1 (0.4)	0.8 (0.1)	7.1 (0.4)
June	8,551 (0)	93.0 (1.0)	1.8 (0.4)	5.3 (0.9)
Owner	2,666 (0)	95.0 (1.0)	1.3 (0.3)	3.7 (1.0)
Renter	3,576 (0)	93.9 (1.9)	2.3 (0.7)	3.8 (1.8)
Vacant	2,310 (0)	89.2 (1.2)	1.5 (0.4)	9.3 (1.2)
July and August	112 (0)	90.9 (3.0)	1.7 (1.3)	7.3 (2.8)
Unknown Month	74 (0)	96.7 (3.3)	0.5 (0.6)	2.7 (3.2)
Not in NRFU Field Operation, but in another NRFU operation	2,312 (0)	84.7 (1.9)	9.8 (1.4)	5.5 (1.0)
Not in any NRFU Universe	86,512 (0)	98.9 (<0.1)	0.5 (<0.1)	0.7 (<0.1)

Standard errors are shown in parentheses below the estimate.
The 2010 Census count excludes housing units in Remote Alaska.

NRFU Reinterview

For housing units that were part of the NRFU RI operation, Table 14 provides the housing unit component breakdown of coverage results. As a contrast, the table also shows the components for housing units in another field operation besides NRFU RI and those not in any NRFU universe.

Table 14: Components of Census Coverage for Housing Units by Nonresponse Followup Reinterview

Nonresponse Followup Reinterview	Census Count (Thousands)	Correct (%)	Erroneous (%)	
			Duplication	Other Reasons
U.S. Total	131,676 (0)	97.3 (0.1)	0.9 (<0.1)	1.8 (<0.1)
April and May	667 (0)	98.1 (0.5)	0.9 (0.3)	1.0 (0.3)
Owner	308 (0)	98.4 (0.8)	1.2 (0.7)	0.3 (0.3)
Renter	301 (0)	97.9 (0.7)	0.7 (0.3)	1.4 (0.6)
Vacant	58 (0)	97.9 (1.7)	0.2 (0.2)	1.9 (1.7)
June	916 (0)	96.4 (0.6)	0.4 (0.2)	3.1 (0.6)
Owner	360 (0)	97.5 (0.9)	0.2 (0.2)	2.2 (0.8)
Renter	425 (0)	96.8 (0.8)	0.4 (0.2)	2.7 (0.7)
Vacant	131 (0)	92.0 (2.9)	1.0 (1.0)	7.0 (2.3)
July and August	232 (0)	95.8 (1.5)	0.9 (0.5)	3.3 (1.3)
Unknown Month	12 (0)	94.4 (6.1)	0.0 (<0.1)	5.6 (6.1)
Not in NRFU RI, but in another NRFU operation	43,337 (0)	94.3 (0.3)	1.7 (0.2)	4.0 (0.2)
Not in any NRFU Universe	86,512 (0)	98.9 (<0.1)	0.5 (<0.1)	0.7 (<0.1)

Standard errors are shown in parentheses below the estimate.
The 2010 Census count excludes housing units in Remote Alaska.

NRFU Vacant Delete Check

Table 15 shows the housing unit components of census coverage for NRFU VDC. Owner- and renter-occupied VDC housing units had higher percentages of erroneous enumerations due to duplication (8.8% and 8.3%, respectively) than vacant VDC housing units (2.5%). Vacant VDC units, however, had higher percentages of erroneous enumerations for other reasons (10.7%) than both owner- and renter-occupied VDC units (5.8% and 5.9%, respectively).

Table 15: Components of Census Coverage for Housing Units by Nonresponse Followup Vacant Delete Check

Nonresponse Followup Vacant Delete Check	Census Count (Thousands)	Correct (%)	Erroneous (%)	
			Duplication	Other Reasons
U.S. Total	131,676 (0)	97.3 (0.1)	0.9 (<0.1)	1.8 (<0.1)
In NRFU VDC	6,716 (0)	86.4 (0.9)	4.5 (0.5)	9.1 (0.7)
Owner	1,099 (0)	85.4 (1.7)	8.8 (1.3)	5.8 (0.9)
Renter	1,132 (0)	85.8 (2.2)	8.3 (1.9)	5.9 (1.1)
Vacant	4,485 (0)	86.8 (0.9)	2.5 (0.3)	10.7 (0.8)
Not in NRFU VDC, but in another NRFU operation	38,448 (0)	95.8 (0.3)	1.2 (0.1)	3.0 (0.2)
Owner	13,721 (0)	97.3 (0.2)	1.0 (0.1)	1.7 (0.2)
Renter	14,922 (0)	96.2 (0.6)	1.6 (0.3)	2.3 (0.5)
Vacant	9,805 (0)	93.2 (0.4)	0.9 (0.1)	6.0 (0.4)
Not in any NRFU Universe	86,512 (0)	98.9 (<0.1)	0.5 (<0.1)	0.7 (<0.1)

Standard errors are shown in parentheses below the estimate.
The 2010 Census count excludes housing units in Remote Alaska.

NRFU Residual

Table 16 shows the housing unit components of census coverage for NRFU Residual. As a contrast, the table also shows the components for housing units in another field operation besides the NRFU Residual, and those not in any NRFU universe.

Table 16: Components of Census Coverage for Housing Units by Nonresponse Followup Residual

Nonresponse Followup Residual	Census Count (Thousands)	Correct (%)	Erroneous (%)	
			Duplication	Other Reasons
U.S. Total	131,676 (0)	97.3 (0.1)	0.9 (<0.1)	1.8 (<0.1)
In NRFU Residual	671 (0)	94.6 (0.8)	1.4 (0.4)	4.0 (0.8)
Owner	231 (0)	93.4 (1.8)	2.1 (1.0)	4.5 (1.4)
Renter	214 (0)	94.1 (1.6)	2.1 (0.8)	3.8 (1.5)
Vacant	225 (0)	96.3 (1.2)	0.0 (<0.1)	3.7 (1.2)
Not in NRFU Residual, but in another NRFU operation	44,494 (0)	94.4 (0.3)	1.7 (0.2)	3.9 (0.2)
Owner	14,590 (0)	96.4 (0.3)	1.6 (0.1)	2.0 (0.2)
Renter	15,839 (0)	95.5 (0.6)	2.0 (0.3)	2.5 (0.5)
Vacant	14,065 (0)	91.1 (0.4)	1.4 (0.2)	7.5 (0.4)
Not in any NRFU Universe	86,512 (0)	98.9 (<0.1)	0.5 (<0.1)	0.7 (<0.1)

Standard errors are shown in parentheses below the estimate.
The 2010 Census count excludes housing units in Remote Alaska.

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Attachment A: Housing Unit Component Results of Counties and Places ≥ 500,000 People

Table A1: Components of Census Coverage for Housing Units by Counties

COUNTY	Census Count (Thousands)	Correct (%)	Erroneous (%)		Population Estimate (Thousands)	Correct (%)	Pct Undercount (%)	Omissions (%)
			Duplication	Other				
U.S. Total	131,676.2	97.3	0.9	1.8	132,466.6	96.8	0.60*	3.2
Alabama (01)	2,171.9	96.8	1.2	2.0	2,198.1	95.6	1.19	4.4
Jefferson County (073)	300.6	96.9	0.1	3.0	302.1	96.4	0.52	3.6
Balance of Alabama	1,871.3	96.8	1.4	1.8	1,895.9	95.5	1.30	4.5
Alaska (02)	278.4	96.0	0.9	3.2	283.5	94.2	1.79	5.8
Arizona (04)	2,844.5	96.9	1.1	1.9	2,886.2	95.5	1.44	4.5
Maricopa County (013)	1,639.3	98.6	1.0	0.4	1,653.5	97.7	0.86	2.3
Pima County (019)	440.9	98.0	0.4	1.6	444.7	97.2	0.85	2.8
Balance of Arizona	764.3	92.8	1.8	5.4	788.0	90.0	3.01	10.0
Arkansas (05)	1,316.3	96.1	0.9	2.9	1,329.6	95.2	1.00	4.8
California (06)	13,680.1	98.4	0.5	1.1	13,770.5	97.8	0.66	2.2
Alameda County (001)	582.5	99.5	0.1	0.4	584.9	99.1	0.39	0.9
Contra Costa County (013)	400.3	99.1	0.2	0.7	402.8	98.4	0.64	1.6
Fresno County (019)	315.5	96.0	0.2	3.8	317.4	95.4	0.60	4.6
Kern County (029)	284.4	98.3	0.0	1.7	287.9	97.1	1.22	2.9
Los Angeles County (037)	3,445.1	99.0	0.3	0.7	3,448.1	98.9	0.09	1.1
Orange County (059)	1,048.9	99.3	0.5	0.2	1,054.6	98.8	0.54	1.2
Riverside County (065)	800.7	94.8	0.6	4.5	810.8	93.6	1.25	6.4
Sacramento County (067)	555.9	100.0	0.0	0.0	559.0	99.5	0.55	0.5
San Bernardino County (071)	699.6	99.2	0.2	0.7	709.8	97.7	1.43	2.3
San Diego County (073)	1,164.8	98.6	0.3	1.1	1,169.6	98.2	0.41	1.8
San Francisco County (075)	376.9	98.8	0.1	1.1	378.4	98.4	0.39	1.6
San Joaquin County (077)	233.8	98.9	0.0	1.1	235.3	98.2	0.65	1.8
San Mateo County (081)	271.0	99.5	0.3	0.2	272.4	99.0	0.49	1.0
Santa Clara County (085)	631.9	97.6	0.4	2.0	635.0	97.2	0.49	2.8
Stanislaus County (099)	179.5	99.8	0.0	0.2	180.9	99.0	0.75	1.0
Ventura County (111)	281.7	99.0	0.2	0.8	283.4	98.4	0.61	1.6
Balance of California	2,407.5	97.5	1.4	1.1	2,440.1	96.2	1.34	3.8
Colorado (08)	2,212.9	98.8	0.4	0.7	2,232.2	98.0	0.86	2.0
Arapahoe County (005)	238.3	100.0	0.0	0.0	239.1	99.7	0.35	0.3
Denver County (031)	285.8	99.7	0.3	0.0	286.6	99.5	0.27	0.5
El Paso County (041)	252.9	99.5	0.2	0.3	254.3	98.9	0.55	1.1
Jefferson County (059)	230.0	100.0	0.0	0.0	231.0	99.5	0.45	0.5
Balance of Colorado	1,206.0	98.1	0.7	1.2	1,221.2	96.8	1.24	3.2
Connecticut (09)	1,487.9	98.1	1.2	0.7	1,482.2	98.4	-0.38	1.6
Fairfield County (001)	361.2	98.3	1.4	0.3	359.2	98.9	-0.55	1.1
Hartford County (003)	374.2	98.8	0.5	0.7	372.2	99.3	-0.55	0.7
New Haven County (009)	362.0	98.8	0.4	0.8	360.1	99.3	-0.54	0.7
Balance of Connecticut	390.4	96.4	2.6	1.0	390.7	96.3	0.06	3.7
Delaware (10)	405.9	98.5	0.5	1.0	410.2	97.4	1.06	2.6
New Castle County (003)	217.5	99.0	0.2	0.9	218.9	98.3	0.62	1.7
Balance of Delaware	188.4	97.9	0.9	1.2	191.4	96.4	1.56	3.6
District of Columbia (11)	296.7	98.0	0.5	1.5	296.5	98.1	-0.07	1.9

The 2010 Census count excludes housing units in Remote Alaska.

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Table A1 Continued: Components of Census Coverage for Housing Units by Counties

COUNTY	Census Count (Thousands)	Correct (%)	Erroneous (%)		Population Estimate (Thousands)	Correct (%)	Pct Undercount (%)	Omissions (%)
			Duplication	Other				
Florida (12)	8,989.6	97.6	1.0	1.4	9,080.2	96.6	1.00	3.4
Brevard County (009)	269.9	99.8	0.1	0.0	272.3	99.0	0.88	1.0
Broward County (011)	810.4	93.6	0.5	5.9	815.9	92.9	0.67	7.1
Duval County (031)	388.5	97.0	2.7	0.3	390.5	96.5	0.51	3.5
Hillsborough County (057)	536.1	95.2	3.7	1.0	538.3	94.8	0.40	5.2
Lee County (071)	371.1	100.0	0.0	0.0	376.6	98.5	1.45	1.5
Miami-Dade County (086)	989.4	98.7	0.3	1.0	987.3	99.0	-0.21	1.0
Orange County (095)	487.8	93.2	6.5	0.3	489.0	93.0	0.23	7.0
Palm Beach County (099)	664.6	99.7	0.1	0.2	669.6	98.9	0.75	1.1
Pinellas County (103)	503.6	95.6	0.0	4.4	507.9	94.8	0.84	5.2
Polk County (105)	281.2	98.3	0.0	1.6	285.3	96.9	1.42	3.1
Balance of Florida	3,686.9	98.6	0.5	0.9	3,747.7	97.0	1.62	3.0
Georgia (13)	4,088.8	97.4	1.5	1.1	4,126.2	96.5	0.91	3.5
Cobb County (067)	286.5	99.4	0.5	0.1	288.8	98.6	0.80	1.4
DeKalb County (089)	305.0	94.9	5.1	0.0	308.1	93.9	1.01	6.1
Fulton County (121)	437.1	99.0	0.3	0.7	440.1	98.3	0.67	1.7
Gwinnett County (135)	291.5	99.4	0.0	0.6	293.7	98.7	0.72	1.3
Balance of Georgia	2,768.7	97.0	1.5	1.4	2,795.6	96.1	0.96	3.9
Hawaii (15)	519.5	95.5	1.9	2.6	519.8	95.4	0.05	4.6
Honolulu County (003)	336.9	95.8	1.9	2.3	336.4	95.9	-0.15	4.1
Balance of Hawaii	182.6	94.9	1.9	3.2	183.4	94.5	0.42	5.5
Idaho (16)	667.8	97.4	1.0	1.6	679.8	95.7	1.77	4.3
Illinois (17)	5,296.7	98.1	0.4	1.5	5,309.1	97.9	0.23	2.1
Cook County (031)	2,180.4	97.6	0.4	2.0	2,170.8	98.1	-0.44	1.9
DuPage County (043)	356.2	99.0	0.4	0.6	357.6	98.6	0.40	1.4
Kane County (089)	182.0	99.0	0.0	1.0	181.7	99.2	-0.18	0.8
Lake County (097)	260.3	96.6	3.2	0.2	261.3	96.2	0.38	3.8
Will County (197)	237.5	100.0	0.0	0.0	238.7	99.5	0.50	0.5
Balance of Illinois	2,080.3	98.4	0.1	1.5	2,099.0	97.6	0.89	2.4
Indiana (18)	2,795.5	98.9	0.3	0.8	2,816.6	98.1	0.75	1.9
Marion County (097)	417.9	99.5	0.0	0.5	419.7	99.1	0.43	0.9
Balance of Indiana	2,377.7	98.8	0.3	0.9	2,397.0	98.0	0.80	2.0
Iowa (19)	1,336.4	98.4	0.4	1.2	1,344.6	97.8	0.61	2.2
Kansas (20)	1,233.2	98.7	0.5	0.8	1,240.4	98.1	0.58	1.9
Johnson County (091)	226.6	100.0	0.0	0.0	227.5	99.6	0.42	0.4
Balance of Kansas	1,006.6	98.4	0.6	1.0	1,012.8	97.8	0.61	2.2
Kentucky (21)	1,927.2	96.4	1.3	2.3	1,939.3	95.8	0.62	4.2
Jefferson County (111)	337.6	100.0	0.0	0.0	338.7	99.7	0.32	0.3
Balance of Kentucky	1,589.5	95.7	1.6	2.8	1,600.6	95.0	0.69	5.0
Louisiana (22)	1,965.0	96.2	1.3	2.6	1,981.5	95.4	0.83	4.6
Maine (23)	721.8	91.2	0.4	8.4	723.4	91.0	0.21	9.0

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Table A1 Continued: Components of Census Coverage for Housing Units by Counties

COUNTY	Census Count (Thous ands)	Correct (%)	Erroneous (%)		Population Estimate (Thous ands)	Correct (%)	Pct Undercount (%)	Omissions (%)
			Duplication	Other				
Maryland (24)	2,378.8	98.0	1.0	1.0	2,394.1	97.4	0.64	2.6
Anne Arundel County (003)	212.6	98.0	0.8	1.2	213.7	97.5	0.52	2.5
Baltimore County (005)	335.6	99.6	0.3	0.1	337.0	99.2	0.40	0.8
Montgomery County (031)	375.9	98.9	0.9	0.2	376.7	98.7	0.22	1.3
Prince George's County (033)	328.2	98.7	0.0	1.3	329.2	98.4	0.31	1.6
Baltimore City (510)	296.7	93.8	3.9	2.3	297.4	93.6	0.23	6.4
Balance of Maryland	829.9	98.2	0.6	1.2	840.1	97.0	1.22	3.0
Massachusetts (25)	2,808.3	95.4	1.7	2.9	2,803.6	95.6	-0.17	4.4
Bristol County (005)	230.5	96.8	0.3	2.9	229.7	97.1	-0.36	2.9
Essex County (009)	306.8	89.5	0.9	9.6	304.9	90.0	-0.62	10.0
Middlesex County (017)	612.0	96.0	1.3	2.7	609.4	96.4	-0.42	3.6
Norfolk County (021)	270.4	99.2	0.0	0.8	270.2	99.3	-0.06	0.7
Suffolk County (025)	315.5	88.4	9.1	2.5	309.0	90.2	-2.12	9.8
Worcester County (027)	326.8	97.5	0.6	1.8	325.6	97.9	-0.37	2.1
Balance of Massachusetts	746.3	97.6	0.9	1.5	754.8	96.5	1.13	3.5
Michigan (26)	4,532.2	97.3	0.5	2.3	4,575.4	96.3	0.94	3.7
Kent County (081)	246.9	100.0	0.0	0.0	248.1	99.5	0.48	0.5
Macomb County (099)	356.6	99.3	0.0	0.7	359.3	98.6	0.74	1.4
Oakland County (125)	527.3	98.3	0.6	1.1	530.9	97.7	0.68	2.3
Wayne County (163)	821.7	97.0	0.7	2.4	827.4	96.3	0.69	3.7
Balance of Michigan	2,579.8	96.6	0.5	2.9	2,609.7	95.5	1.15	4.5
Minnesota (27)	2,347.2	96.3	2.6	1.1	2,368.7	95.4	0.91	4.6
Hennepin County (053)	509.5	99.7	0.3	0.0	510.9	99.4	0.28	0.6
Ramsey County (123)	217.2	100.0	0.0	0.0	217.6	99.8	0.19	0.2
Balance of Minnesota	1,620.5	94.7	3.7	1.5	1,640.2	93.6	1.20	6.4
Mississippi (28)	1,274.7	94.4	1.7	3.9	1,281.8	93.9	0.55	6.1
Missouri (29)	2,712.7	97.8	0.4	1.7	2,734.3	97.1	0.79	2.9
Jackson County (095)	312.1	98.5	0.5	1.0	313.3	98.2	0.38	1.8
St. Louis County (189)	438.0	100.0	0.0	0.0	439.8	99.6	0.41	0.4
Balance of Missouri	1,962.6	97.2	0.5	2.2	1,981.2	96.3	0.94	3.7
Montana (30)	482.8	94.2	1.1	4.6	492.1	92.4	1.89	7.6
Nebraska (31)	796.8	97.8	0.3	1.9	802.2	97.2	0.67	2.8
Douglas County (055)	219.6	99.7	0.0	0.3	220.6	99.2	0.44	0.8
Balance of Nebraska	577.2	97.1	0.4	2.5	581.6	96.4	0.76	3.6
Nevada (32)	1,173.8	99.4	0.2	0.3	1,187.6	98.3	1.16	1.7
Clark County (003)	840.3	99.8	0.2	0.0	848.2	98.9	0.93	1.1
Balance of Nevada	333.5	98.4	0.4	1.2	339.4	96.7	1.74	3.3
New Hampshire (33)	614.8	95.3	0.7	4.0	618.9	94.6	0.67	5.4

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Table A1 Continued: Components of Census Coverage for Housing Units by Counties

COUNTY	Census Count (Thousands)	Correct (%)	Erroneous (%)		Population Estimate (Thousands)	Correct (%)	Pct Undercount (%)	Omissions (%)
			Duplication	Other				
New Jersey (34)	3,553.6	98.5	0.4	1.2	3,537.1	98.9	-0.47	1.1
Bergen County (003)	352.4	98.6	0.4	1.0	349.9	99.3	-0.72	0.7
Camden County (007)	204.9	99.0	0.1	0.9	205.1	99.0	0.06	1.0
Essex County (013)	313.0	97.5	0.3	2.2	307.0	99.4	-1.96	0.6
Hudson County (017)	270.3	96.6	0.4	3.1	261.7	99.7	-3.29*	0.3
Middlesex County (023)	294.8	97.9	0.0	2.1	294.1	98.1	-0.24	1.9
Monmouth County (025)	258.4	99.1	0.0	0.9	258.6	99.0	0.09	1.0
Ocean County (029)	278.1	99.2	0.8	0.0	279.2	98.8	0.40	1.2
Passaic County (031)	176.0	98.1	0.4	1.4	172.8	99.9	-1.83	0.1
Union County (039)	199.5	97.9	0.6	1.5	197.0	99.1	-1.28	0.9
Balance of New Jersey	1,206.2	99.0	0.4	0.6	1,211.8	98.5	0.46	1.5
New Mexico (35)	901.4	94.1	1.3	4.6	913.5	92.9	1.33	7.1
Bernalillo County (001)	284.2	96.8	0.7	2.5	285.4	96.4	0.40	3.6
Balance of New Mexico	617.2	92.9	1.6	5.5	628.1	91.3	1.75	8.7
New York (36)	8,108.1	95.9	0.7	3.4	8,016.9	97.0	-1.14	3.0
Bronx County (005)	511.9	96.3	0.4	3.2	496.5	99.3	-3.10*	0.7
Erie County (029)	420.0	98.1	0.9	1.0	416.9	98.8	-0.73	1.2
Kings County (047)	1,000.3	90.1	0.9	9.0	971.4	92.8	-2.97*	7.2
Monroe County (055)	320.6	98.6	1.4	0.0	319.6	98.8	-0.30	1.2
Nassau County (059)	468.3	96.2	0.3	3.5	467.1	96.5	-0.27	3.5
New York County (061)	847.1	96.9	0.1	3.0	834.5	98.3	-1.51	1.7
Queens County (081)	835.1	95.5	0.7	3.9	813.2	98.0	-2.70*	2.0
Suffolk County (103)	570.0	96.5	0.9	2.7	575.0	95.6	0.87	4.4
Westchester County (119)	370.8	96.4	0.2	3.3	365.8	97.8	-1.37	2.2
Balance of New York	2,764.0	96.8	0.9	2.3	2,756.9	97.0	-0.26	3.0
North Carolina (37)	4,327.5	95.1	2.4	2.4	4,372.9	94.2	1.04	5.8
Mecklenburg County (119)	398.5	95.2	3.6	1.2	399.6	94.9	0.28	5.1
Wake County (183)	371.8	100.0	0.0	0.0	374.0	99.4	0.58	0.6
Balance of North Carolina	3,557.2	94.6	2.5	2.8	3,599.3	93.5	1.17	6.5
North Dakota (38)	317.5	98.1	0.5	1.4	321.8	96.8	1.32	3.2
Ohio (39)	5,127.5	98.3	0.4	1.3	5,158.4	97.7	0.60	2.3
Cuyahoga County (035)	621.8	97.5	0.7	1.8	623.2	97.3	0.23	2.7
Franklin County (049)	527.2	99.6	0.4	0.1	529.9	99.1	0.51	0.9
Hamilton County (061)	377.4	95.4	0.4	4.3	378.2	95.2	0.23	4.8
Montgomery County (113)	254.8	99.6	0.0	0.4	256.3	99.0	0.60	1.0
Summit County (153)	245.1	100.0	0.0	0.0	246.3	99.5	0.50	0.5
Balance of Ohio	3,101.3	98.3	0.4	1.3	3,124.4	97.6	0.74	2.4
Oklahoma (40)	1,664.4	96.2	1.5	2.4	1,672.9	95.7	0.51	4.3
Oklahoma County (109)	319.8	98.7	0.1	1.3	321.0	98.3	0.37	1.7
Tulsa County (143)	268.4	99.5	0.5	0.0	269.4	99.2	0.37	0.8
Balance of Oklahoma	1,076.1	94.6	2.1	3.3	1,082.4	94.0	0.58	6.0
Oregon (41)	1,675.6	98.5	0.1	1.4	1,696.6	97.3	1.24	2.7
Multnomah County (051)	324.8	99.5	0.0	0.5	326.5	99.0	0.51	1.0
Washington County (067)	212.5	96.0	0.6	3.5	213.6	95.4	0.56	4.6
Balance of Oregon	1,138.3	98.7	0.1	1.2	1,156.5	97.2	1.58	2.8

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Table A1 Continued: Components of Census Coverage for Housing Units by Counties

COUNTY	Census Count (Thousands)	Correct (%)	Erroneous (%)		Population Estimate (Thousands)	Correct (%)	Pct Undercount (%)	Omissions (%)
			Duplication	Other				
Pennsylvania (42)	5,567.3	97.5	1.0	1.5	5,564.3	97.6	-0.05	2.4
Allegheny County (003)	589.2	97.0	0.6	2.4	588.2	97.2	-0.17	2.8
Bucks County (017)	246.0	98.5	1.5	0.0	246.8	98.1	0.35	1.9
Delaware County (045)	222.9	98.6	0.0	1.4	223.1	98.5	0.09	1.5
Lancaster County (071)	203.0	98.4	0.0	1.6	203.1	98.3	0.09	1.7
Montgomery County (091)	325.7	93.8	5.3	0.9	326.1	93.6	0.12	6.4
Philadelphia County (101)	670.2	97.9	0.0	2.1	666.9	98.4	-0.49	1.6
Balance of Pennsylvania	3,310.4	97.7	0.9	1.3	3,309.9	97.7	-0.01	2.3
Rhode Island (44)	463.4	97.9	0.5	1.7	461.8	98.2	-0.33	1.8
Providence County (007)	264.8	97.3	0.8	1.8	262.4	98.2	-0.92	1.8
Balance of Rhode Island	198.6	98.6	0.0	1.4	199.4	98.1	0.44	1.9
South Carolina (45)	2,137.7	96.8	0.6	2.6	2,162.8	95.7	1.16	4.3
South Dakota (46)	363.4	96.5	0.9	2.6	368.6	95.2	1.41	4.8
Tennessee (47)	2,812.1	97.4	0.8	1.7	2,831.2	96.8	0.67	3.2
Davidson County (037)	284.0	99.9	0.0	0.1	285.0	99.5	0.36	0.5
Shelby County (157)	398.3	98.8	0.6	0.6	399.3	98.6	0.25	1.4
Balance of Tennessee	2,129.9	96.9	1.0	2.1	2,146.9	96.1	0.79	3.9
Texas (48)	9,977.4	97.8	0.9	1.3	10,040.7	97.2	0.63	2.8
Bexar County (029)	662.9	98.3	0.1	1.7	664.2	98.1	0.20	1.9
Collin County (085)	301.0	99.8	0.1	0.1	303.0	99.1	0.68	0.9
Dallas County (113)	943.3	98.9	0.9	0.2	944.7	98.7	0.15	1.3
Denton County (121)	256.1	97.9	0.1	2.0	257.8	97.3	0.64	2.7
El Paso County (141)	270.3	97.5	0.3	2.2	270.5	97.4	0.08	2.6
Fort Bend County (157)	197.0	99.5	0.0	0.5	198.6	98.7	0.80	1.3
Harris County (201)	1,598.7	97.5	2.1	0.4	1,602.8	97.2	0.26	2.8
Hidalgo County (215)	428.3	97.8	0.5	1.6	251.3	96.7	1.22	3.3
Tarrant County (439)	714.8	98.3	1.4	0.3	718.2	97.8	0.47	2.2
Travis County (453)	441.2	97.1	0.5	2.3	441.4	97.1	0.05	2.9
Balance of Texas	4,343.8	97.3	0.8	1.9	4,388.1	96.4	1.01	3.6
Utah (49)	979.7	96.5	2.1	1.4	992.0	95.3	1.24	4.7
Salt Lake County (035)	364.0	94.2	5.3	0.5	366.0	93.7	0.54	6.3
Utah County (049)	148.4	97.1	0.5	2.3	149.4	96.4	0.73	3.6
Balance of Utah	467.3	98.0	0.1	1.9	476.6	96.1	1.95	3.9
Vermont (50)	322.5	95.1	1.4	3.5	322.9	95.0	0.13	5.0
Virginia (51)	3,364.9	97.6	0.7	1.7	3,390.5	96.8	0.75	3.2
Fairfax County (059)	408.0	100.0	0.0	0.0	409.3	99.7	0.31	0.3
Balance of Virginia	2,956.9	97.3	0.8	2.0	2,981.2	96.5	0.81	3.5
Washington (53)	2,885.7	98.2	0.4	1.4	2,915.1	97.3	1.01	2.7
King County (033)	851.3	99.1	0.1	0.8	855.2	98.6	0.46	1.4
Pierce County (053)	325.4	98.9	0.6	0.5	328.3	98.0	0.88	2.0
Snohomish County (061)	286.7	97.4	1.4	1.2	288.8	96.7	0.73	3.3
Balance of Washington	1,422.4	97.8	0.2	2.0	1,442.8	96.4	1.41	3.6
West Virginia (54)	881.9	93.6	1.9	4.6	890.4	92.7	0.95	7.3
Wisconsin (55)	2,624.4	98.1	0.6	1.3	2,662.0	96.7	1.41	3.3
Milwaukee County (079)	418.1	100.0	0.0	0.0	418.1	100.0	0.01	0.0
Balance of Wisconsin	2,206.3	97.7	0.7	1.5	2,243.9	96.1	1.67	3.9
Wyoming (56)	261.9	96.8	1.2	2.0	265.8	95.3	1.47	4.7

The 2010 Census count excludes housing units in Remote Alaska.

An asterisk (*) denotes a percent net undercount that is significantly different than zero.

Table A2: Components of Census Coverage for Housing Units by Places

PLACE	Census Count (Thous ands)	Correct (%)	Erroneous (%)		Population Estimate (Thous ands)	Correct (%)	Pct Undercount (%)	Omissions (%)
			Duplication	Other				
U.S. Total	131,676.2	97.3	0.9	1.8	132,466.6	96.8	0.60*	3.2
Alabama (01)	2,171.9	96.8	1.2	2.0	2,198.1	95.6	1.19	4.4
Alaska (02)	278.4	96.0	0.9	3.2	283.5	94.2	1.79	5.8
Arizona (04)	2,844.5	96.9	1.1	1.9	2,886.2	95.5	1.44	4.5
Phoenix city (55000)	590.1	99.5	0.2	0.4	593.1	99.0	0.49	1.0
Tucson city (77000)	229.8	98.3	0.0	1.7	231.1	97.8	0.56	2.2
Balance of Arizona	2,024.6	96.0	1.5	2.4	2,062.1	94.3	1.82	5.7
Arkansas (05)	1,316.3	96.1	0.9	2.9	1,329.6	95.2	1.00	4.8
California (06)	13,680.1	98.4	0.5	1.1	13,770.5	97.8	0.66	2.2
Los Angeles (44000)	1,414.0	98.8	0.4	0.7	1,412.4	99.0	-0.11	1.0
San Diego city (66000)	516.0	98.3	0.3	1.4	517.2	98.1	0.23	1.9
San Francisco city (67000)	376.9	98.8	0.1	1.1	378.4	98.4	0.39	1.6
San Jose city (68000)	314.0	96.7	0.0	3.3	315.4	96.2	0.44	3.8
Balance of California	11,059.1	98.4	0.5	1.1	11,147.0	97.6	0.79	2.4
Colorado (08)	2,212.9	98.8	0.4	0.7	2,232.2	98.0	0.86	2.0
Denver city (20000)	285.8	99.7	0.3	0.0	286.6	99.5	0.27	0.5
Balance of Colorado	1,927.1	98.7	0.5	0.8	1,945.6	97.8	0.95	2.2
Connecticut (09)	1,487.9	98.1	1.2	0.7	1,482.2	98.4	-0.38	1.6
Delaware (10)	405.9	98.5	0.5	1.0	410.2	97.4	1.06	2.6
District of Columbia (11)	296.7	98.0	0.5	1.5	296.5	98.1	-0.07	1.9
Florida (12)	8,989.6	97.6	1.0	1.4	9,080.2	96.6	1.00	3.4
Jacksonville (35000)	366.3	96.8	2.9	0.3	368.1	96.3	0.49	3.7
Balance of Florida	8,623.3	97.6	0.9	1.5	8,712.1	96.6	1.02	3.4
Georgia (13)	4,088.8	97.4	1.5	1.1	4,126.2	96.5	0.91	3.5
Hawaii (15)	519.5	95.5	1.9	2.6	519.8	95.4	0.05	4.6
Idaho (16)	667.8	97.4	1.0	1.6	679.8	95.7	1.77	4.3
Illinois (17)	5,296.7	98.1	0.4	1.5	5,309.1	97.9	0.23	2.1
Chicago city (14000)	1,194.3	96.5	0.4	3.0	1,183.0	97.5	-0.96	2.5
Balance of Illinois	4,102.4	98.6	0.4	1.0	4,126.1	98.0	0.58	2.0
Indiana (18)	2,795.5	98.9	0.3	0.8	2,816.6	98.1	0.75	1.9
Indianapolis city (36003)	379.9	99.5	0.0	0.5	381.5	99.0	0.43	1.0
Balance of Indiana	2,415.7	98.8	0.3	0.9	2,435.1	98.0	0.80	2.0
Iowa (19)	1,336.4	98.4	0.4	1.2	1,344.6	97.8	0.61	2.2
Kansas (20)	1,233.2	98.7	0.5	0.8	1,240.4	98.1	0.58	1.9
Kentucky (21)	1,927.2	96.4	1.3	2.3	1,939.3	95.8	0.62	4.2
Louisville/Jefferson County (48006)	270.9	100.0	0.0	0.0	271.8	99.7	0.30	0.3
Balance of Kentucky	1,656.2	95.8	1.5	2.7	1,667.5	95.2	0.68	4.8
Louisiana (22)	1,965.0	96.2	1.3	2.6	1,981.5	95.4	0.83	4.6

The 2010 Census count excludes housing units in Remote Alaska.

An asterisk (*) denotes a percent net undercount that is significantly different than zero.

Table A2 Continued: Components of Census Coverage for Housing Units by Places

PLACE	Census Count (Thousands)	Correct (%)	Erroneous (%)		Population Estimate (Thousands)	Correct (%)	Pct Undercount (%)	Omissions (%)
			Duplication	Other				
Maine (23)	721.8	91.2	0.4	8.4	723.4	91.0	0.21	9.0
Maryland (24)	2,378.8	98.0	1.0	1.0	2,394.1	97.4	0.64	2.6
Baltimore (04000)	296.7	93.8	3.9	2.3	297.4	93.6	0.23	6.4
Balance of Maryland	2,082.1	98.6	0.5	0.9	2,096.7	97.9	0.70	2.1
Massachusetts (25)	2,808.3	95.4	1.7	2.9	2,803.6	95.6	-0.17	4.4
Boston city (07000)	272.5	87.4	10.2	2.5	266.8	89.2	-2.11	10.8
Balance of Massachusetts	2,535.8	96.3	0.8	2.9	2,536.7	96.2	0.04	3.8
Michigan (26)	4,532.2	97.3	0.5	2.3	4,575.4	96.3	0.94	3.7
Detroit city (22000)	349.2	95.0	1.2	3.8	351.5	94.4	0.67	5.6
Balance of Michigan	4,183.1	97.5	0.4	2.2	4,223.8	96.5	0.97	3.5
Minnesota (27)	2,347.2	96.3	2.6	1.1	2,368.7	95.4	0.91	4.6
Mississippi (28)	1,274.7	94.4	1.7	3.9	1,281.8	93.9	0.55	6.1
Missouri (29)	2,712.7	97.8	0.4	1.7	2,734.3	97.1	0.79	2.9
Montana (30)	482.8	94.2	1.1	4.6	492.1	92.4	1.89	7.6
Nebraska (31)	796.8	97.8	0.3	1.9	802.2	97.2	0.67	2.8
Nevada (32)	1,173.8	99.4	0.2	0.3	1,187.6	98.3	1.16	1.7
Las Vegas city (40000)	243.7	99.7	0.3	0.0	245.2	99.1	0.60	0.9
Balance of Nevada	930.1	99.4	0.2	0.4	942.4	98.1	1.31	1.9
New Hampshire (33)	614.8	95.3	0.7	4.0	618.9	94.6	0.67	5.4
New Jersey (34)	3,553.6	98.5	0.4	1.2	3,537.1	98.9	-0.47	1.1
New Mexico (35)	901.4	94.1	1.3	4.6	913.5	92.9	1.33	7.1
Albuquerque (02000)	239.2	96.7	0.6	2.7	240.1	96.4	0.38	3.6
Balance of New Mexico	662.2	93.2	1.5	5.3	673.5	91.6	1.67	8.4
New York (36)	8,108.1	95.9	0.7	3.4	8,016.9	97.0	-1.14	3.0
New York (51000)	3,371.1	94.5	0.5	5.0	3,288.9	96.9	-2.50*	3.1
Balance of New York	4,737.0	96.8	0.8	2.3	4,728.0	97.0	-0.19	3.0
North Carolina (37)	4,327.5	95.1	2.4	2.4	4,372.9	94.2	1.04	5.8
Charlotte city (12000)	319.9	94.0	4.5	1.5	320.6	93.8	0.22	6.2
Balance of North Carolina	4,007.6	95.2	2.3	2.5	4,052.3	94.2	1.10	5.8
North Dakota (38)	317.5	98.1	0.5	1.4	321.8	96.8	1.32	3.2
Ohio (39)	5,127.5	98.3	0.4	1.3	5,158.4	97.7	0.60	2.3
Columbus (18000)	371.0	99.4	0.5	0.0	372.7	99.0	0.47	1.0
Balance of Ohio	4,756.5	98.2	0.4	1.4	4,785.7	97.6	0.61	2.4
Oklahoma (40)	1,664.4	96.2	1.5	2.4	1,672.9	95.7	0.51	4.3
Oklahoma City (55000)	256.9	98.8	0.0	1.2	258.1	98.4	0.44	1.6
Balance of Oklahoma	1,407.4	95.7	1.7	2.6	1,414.8	95.2	0.52	4.8

The 2010 Census count excludes housing units in Remote Alaska.

An asterisk (*) denotes a percent net undercount that is significantly different than zero.

Table A2 Continued: Components of Census Coverage for Housing Units by Places

PLACE	Census Count (Thousands)	Correct (%)	Erroneous (%)		Population Estimate (Thousands)	Correct (%)	Pct Undercount (%)	Omissions (%)
			Duplication	Other				
Oregon (41)	1,675.6	98.5	0.1	1.4	1,696.6	97.3	1.24	2.7
Portland (59000)	265.4	100.0	0.0	0.0	266.8	99.5	0.49	0.5
Balance of Oregon	1,410.1	98.2	0.1	1.6	1,429.9	96.9	1.38	3.1
Pennsylvania (42)	5,567.3	97.5	1.0	1.5	5,564.3	97.6	-0.05	2.4
Philadelphia (60000)	670.2	97.9	0.0	2.1	666.9	98.4	-0.49	1.6
Balance of Pennsylvania	4,897.1	97.5	1.1	1.4	4,897.3	97.5	0.00	2.5
Rhode Island (44)	463.4	97.9	0.5	1.7	461.8	98.2	-0.33	1.8
South Carolina (45)	2,137.7	96.8	0.6	2.6	2,162.8	95.7	1.16	4.3
South Dakota (46)	363.4	96.5	0.9	2.6	368.6	95.2	1.41	4.8
Tennessee (47)	2,812.1	97.4	0.8	1.7	2,831.2	96.8	0.67	3.2
Memphis city (48000)	291.9	98.4	0.8	0.9	292.5	98.2	0.20	1.8
Nashville-Davidson metropolitan (52006)	272.6	100.0	0.0	0.0	273.6	99.6	0.35	0.4
Balance of Tennessee	2,247.6	97.0	1.0	2.0	2,265.1	96.3	0.77	3.7
Texas (48)	9,977.4	97.8	0.9	1.3	10,040.7	97.2	0.63	2.8
Austin city (05000)	354.2	97.1	0.7	2.1	353.7	97.3	-0.16	2.7
Dallas city (19000)	516.6	97.9	1.8	0.4	517.3	97.8	0.13	2.2
El Paso city (24000)	227.6	99.2	0.0	0.8	226.5	99.7	-0.49	0.3
Fort Worth (27000)	291.1	96.1	3.5	0.4	292.6	95.6	0.52	4.4
Houston (35000)	892.6	98.5	0.7	0.8	892.8	98.5	0.01	1.5
San Antonio (65000)	524.2	99.1	0.1	0.8	524.4	99.1	0.03	0.9
Balance of Texas	7,171.0	97.6	0.9	1.5	7,233.5	96.8	0.86	3.2
Utah (49)	979.7	96.5	2.1	1.4	992.0	95.3	1.24	4.7
Vermont (50)	322.5	95.1	1.4	3.5	322.9	95.0	0.13	5.0
Virginia (51)	3,364.9	97.6	0.7	1.7	3,390.5	96.8	0.75	3.2
Washington (53)	2,885.7	98.2	0.4	1.4	2,915.1	97.3	1.01	2.7
Seattle (63000)	308.5	97.8	0.4	1.8	309.6	97.4	0.35	2.6
Balance of Washington	2,577.2	98.3	0.4	1.3	2,605.5	97.2	1.09	2.8
West Virginia (54)	881.9	93.6	1.9	4.6	890.4	92.7	0.95	7.3
Wisconsin (55)	2,624.4	98.1	0.6	1.3	2,662.0	96.7	1.41	3.3
Milwaukee city (53000)	255.6	100.0	0.0	0.0	254.9	100.0	-0.24	0.0
Balance of Wisconsin	2,368.8	97.9	0.7	1.4	2,407.0	96.3	1.59	3.7
Wyoming (56)	261.9	96.8	1.2	2.0	265.8	95.3	1.47	4.7

The 2010 Census count excludes housing units in Remote Alaska.

An asterisk (*) denotes a percent net undercount that is significantly different than zero.

Attachment B: Measures of Uncertainty Tables for States, Counties, and Places

Table B1: Measures of Uncertainty for States

STATE	Census Count (Thousands)	Correct (%)	Erroneous (%)		Population Estimate (Thousands)	Correct (%)	Pct Undercount (%)	Omissions (%)
			Duplication	Other Reasons				
U.S. Total	(0)	(0.1)	(<0.1)	(<0.1)	(265.7)	(0.2)	(0.20)	(0.2)
Alabama	(0)	(0.7)	(0.4)	(0.5)	(37.6)	(1.8)	(1.69)	(1.8)
Alaska	(0)	(0.8)	(0.4)	(0.7)	(8.1)	(2.8)	(2.80)	(2.8)
Arizona	(0)	(0.7)	(0.4)	(0.4)	(46.9)	(1.7)	(1.60)	(1.7)
Arkansas	(0)	(1.2)	(0.3)	(1.2)	(25.5)	(2.2)	(1.90)	(2.2)
California	(0)	(0.2)	(0.1)	(0.2)	(151.9)	(1.1)	(1.10)	(1.1)
Colorado	(0)	(0.3)	(0.2)	(0.2)	(37.5)	(1.7)	(1.67)	(1.7)
Connecticut	(0)	(0.6)	(0.5)	(0.2)	(27.6)	(1.9)	(1.87)	(1.9)
Delaware	(0)	(0.6)	(0.3)	(0.4)	(10.5)	(2.6)	(2.54)	(2.6)
District of Columbia	(0)	(0.7)	(0.2)	(0.6)	(8.2)	(2.8)	(2.77)	(2.8)
Florida	(0)	(0.7)	(0.5)	(0.6)	(113.4)	(1.4)	(1.24)	(1.4)
Georgia	(0)	(0.7)	(0.6)	(0.3)	(60.7)	(1.6)	(1.46)	(1.6)
Hawaii	(0)	(0.7)	(0.4)	(0.6)	(13.0)	(2.5)	(2.49)	(2.5)
Idaho	(0)	(0.9)	(0.4)	(0.6)	(15.3)	(2.3)	(2.21)	(2.3)
Illinois	(0)	(0.3)	(0.2)	(0.2)	(73.7)	(1.4)	(1.38)	(1.4)
Indiana	(0)	(0.2)	(0.1)	(0.2)	(45.2)	(1.6)	(1.59)	(1.6)
Iowa	(0)	(0.5)	(0.2)	(0.4)	(25.8)	(1.9)	(1.91)	(1.9)
Kansas	(0)	(0.4)	(0.2)	(0.3)	(24.2)	(2.0)	(1.94)	(2.0)
Kentucky	(0)	(0.7)	(0.5)	(0.4)	(34.0)	(1.8)	(1.74)	(1.8)
Louisiana	(0)	(0.7)	(0.3)	(0.5)	(34.4)	(1.8)	(1.72)	(1.8)
Maine	(0)	(6.7)	(0.2)	(6.8)	(17.7)	(7.1)	(2.45)	(7.1)
Maryland	(0)	(0.4)	(0.4)	(0.3)	(39.7)	(1.7)	(1.65)	(1.7)
Massachusetts	(0)	(1.4)	(1.1)	(1.0)	(45.3)	(2.1)	(1.62)	(2.1)
Michigan	(0)	(1.1)	(0.1)	(1.0)	(65.6)	(1.8)	(1.42)	(1.8)
Minnesota	(0)	(1.7)	(1.5)	(0.3)	(40.2)	(2.3)	(1.68)	(2.3)
Mississippi	(0)	(1.3)	(0.8)	(1.3)	(25.1)	(2.3)	(1.95)	(2.3)
Missouri	(0)	(0.4)	(0.1)	(0.4)	(45.6)	(1.7)	(1.66)	(1.7)
Montana	(0)	(1.5)	(0.4)	(1.3)	(12.1)	(2.7)	(2.42)	(2.7)
Nebraska	(0)	(0.6)	(0.3)	(0.6)	(17.4)	(2.2)	(2.15)	(2.2)
Nevada	(0)	(0.2)	(0.1)	(0.2)	(23.5)	(2.0)	(1.96)	(2.0)
New Hampshire	(0)	(3.1)	(0.3)	(3.1)	(14.6)	(3.8)	(2.34)	(3.8)
New Jersey	(0)	(0.3)	(0.1)	(0.2)	(55.2)	(1.6)	(1.57)	(1.6)
New Mexico	(0)	(1.0)	(0.3)	(0.8)	(19.7)	(2.2)	(2.13)	(2.2)
New York	(0)	(0.3)	(0.1)	(0.3)	(106.1)	(1.3)	(1.34)	(1.3)
North Carolina	(0)	(0.9)	(0.7)	(0.6)	(64.0)	(1.6)	(1.45)	(1.6)
North Dakota	(0)	(0.5)	(0.3)	(0.5)	(8.9)	(2.7)	(2.72)	(2.7)
Ohio	(0)	(0.3)	(0.1)	(0.3)	(71.9)	(1.4)	(1.38)	(1.4)
Oklahoma	(0)	(0.7)	(0.4)	(0.4)	(30.4)	(1.9)	(1.81)	(1.9)
Oregon	(0)	(0.5)	(<0.1)	(0.5)	(30.4)	(1.8)	(1.77)	(1.8)
Pennsylvania	(0)	(0.4)	(0.3)	(0.2)	(77.9)	(1.4)	(1.40)	(1.4)
Rhode Island	(0)	(0.5)	(0.3)	(0.5)	(11.4)	(2.5)	(2.49)	(2.5)
South Carolina	(0)	(1.2)	(0.3)	(1.2)	(37.2)	(2.0)	(1.70)	(2.0)
South Dakota	(0)	(1.3)	(0.3)	(1.2)	(9.8)	(2.8)	(2.62)	(2.8)
Tennessee	(0)	(0.4)	(0.3)	(0.4)	(45.0)	(1.6)	(1.58)	(1.6)
Texas	(0)	(0.3)	(0.2)	(0.2)	(118.3)	(1.2)	(1.17)	(1.2)
Utah	(0)	(2.0)	(2.0)	(0.4)	(20.2)	(2.7)	(2.01)	(2.7)
Vermont	(0)	(1.7)	(0.5)	(1.6)	(9.2)	(3.2)	(2.84)	(3.2)
Virginia	(0)	(0.6)	(0.2)	(0.4)	(51.4)	(1.6)	(1.51)	(1.6)
Washington	(0)	(0.4)	(0.1)	(0.3)	(46.0)	(1.6)	(1.56)	(1.6)
West Virginia	(0)	(1.7)	(1.0)	(1.0)	(19.6)	(2.7)	(2.18)	(2.7)
Wisconsin	(0)	(0.4)	(0.3)	(0.3)	(44.6)	(1.7)	(1.65)	(1.7)
Wyoming	(0)	(0.8)	(0.7)	(0.7)	(7.6)	(2.8)	(2.82)	(2.8)

The rightmost four columns are an estimate of the root mean squared error. All other columns are an estimate of the standard error.

Table B2: Measures of Uncertainty for Counties

COUNTY	Census Count (Thous ands)	Correct (%)	Erroneous (%)		Population Estimate (Thous ands)	Correct (%)	Pct Undercount (%)	Omissions (%)
			Duplication	Other				
U.S. Total	(0)	(0.1)	(<0.1)	(<0.1)	(265.7)	(0.2)	(0.20)	(0.2)
Alabama (01)	(0)	(0.7)	(0.4)	(0.5)	(37.6)	(1.8)	(1.69)	(1.8)
Jefferson County (073)	(0)	(2.2)	(<0.1)	(2.1)	(4.5)	(2.6)	(1.49)	(2.6)
Balance of Alabama	(0)	(0.8)	(0.5)	(0.5)	(35.8)	(2.0)	(1.86)	(2.0)
Alaska (02)	(0)	(0.8)	(0.4)	(0.7)	(8.1)	(2.8)	(2.80)	(2.8)
Arizona (04)	(0)	(0.7)	(0.4)	(0.4)	(46.9)	(1.7)	(1.60)	(1.7)
Maricopa County (013)	(0)	(0.6)	(0.5)	(0.2)	(17.4)	(1.2)	(1.04)	(1.2)
Pima County (019)	(0)	(1.3)	(0.6)	(0.9)	(6.1)	(1.9)	(1.36)	(1.9)
Balance of Arizona	(0)	(2.2)	(1.0)	(1.4)	(21.4)	(3.2)	(2.64)	(3.2)
Arkansas (05)	(0)	(1.2)	(0.3)	(1.2)	(25.5)	(2.2)	(1.90)	(2.2)
California (06)	(0)	(0.2)	(0.1)	(0.2)	(151.9)	(1.1)	(1.10)	(1.1)
Alameda County (001)	(0)	(0.2)	(<0.1)	(0.2)	(7.6)	(1.3)	(1.29)	(1.3)
Contra Costa County (013)	(0)	(0.6)	(0.2)	(0.5)	(5.6)	(1.5)	(1.38)	(1.5)
Fresno County (019)	(0)	(2.6)	(0.2)	(2.4)	(4.6)	(3.0)	(1.45)	(3.0)
Kern County (029)	(0)	(1.2)	(<0.1)	(1.2)	(4.5)	(1.9)	(1.53)	(1.9)
Los Angeles County (037)	(0)	(0.2)	(0.1)	(0.2)	(30.7)	(0.9)	(0.89)	(0.9)
Orange County (059)	(0)	(0.5)	(0.5)	(0.2)	(11.9)	(1.2)	(1.12)	(1.2)
Riverside County (065)	(0)	(4.2)	(0.4)	(4.2)	(10.7)	(4.3)	(1.30)	(4.3)
Sacramento County (067)	(0)	(0.2)	(0.2)	(0.2)	(7.2)	(1.3)	(1.27)	(1.3)
San Bernardino County (071)	(0)	(0.5)	(0.2)	(0.4)	(9.1)	(1.3)	(1.26)	(1.3)
San Diego County (073)	(0)	(0.5)	(0.2)	(0.6)	(12.8)	(1.2)	(1.09)	(1.2)
San Francisco County (075)	(0)	(0.4)	(0.1)	(0.4)	(5.5)	(1.5)	(1.44)	(1.5)
San Joaquin County (077)	(0)	(0.8)	(<0.1)	(0.8)	(3.7)	(1.7)	(1.54)	(1.7)
San Mateo County (081)	(0)	(0.4)	(0.3)	(0.3)	(4.1)	(1.6)	(1.50)	(1.6)
Santa Clara County (085)	(0)	(2.1)	(0.5)	(2.0)	(8.0)	(2.4)	(1.26)	(2.4)
Stanislaus County (099)	(0)	(0.3)	(<0.1)	(0.3)	(3.0)	(1.7)	(1.64)	(1.7)
Ventura County (111)	(0)	(0.8)	(0.2)	(0.6)	(4.3)	(1.7)	(1.49)	(1.7)
Balance of California	(0)	(0.6)	(0.5)	(0.3)	(42.0)	(1.8)	(1.70)	(1.8)
Colorado (08)	(0)	(0.3)	(0.2)	(0.2)	(37.5)	(1.7)	(1.67)	(1.7)
Arapahoe County (005)	(0)	(0.3)	(0.3)	(0.3)	(3.7)	(1.6)	(1.55)	(1.6)
Denver County (031)	(0)	(0.3)	(0.3)	(<0.1)	(4.3)	(1.5)	(1.50)	(1.5)
El Paso County (041)	(0)	(0.6)	(0.3)	(0.4)	(3.9)	(1.6)	(1.52)	(1.6)
Jefferson County (059)	(0)	(0.1)	(<0.1)	(0.1)	(3.6)	(1.6)	(1.55)	(1.6)
Balance of Colorado	(0)	(0.5)	(0.3)	(0.4)	(26.6)	(2.2)	(2.15)	(2.2)
Connecticut (09)	(0)	(0.6)	(0.5)	(0.2)	(27.6)	(1.9)	(1.87)	(1.9)
Fairfield County (001)	(0)	(0.9)	(0.8)	(0.3)	(5.2)	(1.7)	(1.46)	(1.7)
Hartford County (003)	(0)	(0.6)	(0.5)	(0.5)	(5.3)	(1.5)	(1.44)	(1.5)
New Haven County (009)	(0)	(0.7)	(0.4)	(0.5)	(5.2)	(1.6)	(1.46)	(1.6)
Balance of Connecticut	(0)	(1.9)	(1.7)	(0.6)	(12.6)	(3.7)	(3.23)	(3.7)
Delaware (10)	(0)	(0.6)	(0.3)	(0.4)	(10.5)	(2.6)	(2.54)	(2.6)
New Castle County (003)	(0)	(0.5)	(0.2)	(0.4)	(3.5)	(1.6)	(1.59)	(1.6)
Balance of Delaware	(0)	(1.1)	(0.6)	(0.6)	(8.1)	(4.2)	(4.17)	(4.2)
District of Columbia (11)	(0)	(0.7)	(0.2)	(0.6)	(8.2)	(2.8)	(2.77)	(2.8)

The rightmost four columns are an estimate of the root mean squared error. All other columns are an estimate of the standard error.

Table B2 Continued: Measures of Uncertainty for Counties

COUNTY	Census Count (Thousands)	Correct (%)	Erroneous (%)		Population Estimate (Thousands)	Correct (%)	Pct Undercount (%)	Omissions (%)
			Duplication	Other				
Florida (12)	(0)	(0.7)	(0.5)	(0.6)	(113.4)	(1.4)	(1.24)	(1.4)
Brevard County (009)	(0)	(0.1)	(0.1)	(<0.1)	(4.2)	(1.5)	(1.53)	(1.5)
Broward County (011)	(0)	(5.3)	(0.5)	(5.2)	(10.6)	(5.4)	(1.29)	(5.4)
Duval County (031)	(0)	(2.9)	(2.9)	(0.3)	(5.5)	(3.2)	(1.41)	(3.2)
Hillsborough County (057)	(0)	(3.6)	(3.6)	(0.5)	(7.2)	(3.8)	(1.32)	(3.8)
Lee County (071)	(0)	(2.0)	(2.0)	(2.0)	(5.8)	(2.5)	(1.51)	(2.5)
Miami-Dade County (086)	(0)	(0.6)	(0.3)	(0.4)	(12.5)	(1.4)	(1.27)	(1.4)
Orange County (095)	(0)	(6.4)	(6.5)	(0.3)	(6.7)	(6.5)	(1.36)	(6.5)
Palm Beach County (099)	(0)	(0.4)	(0.1)	(0.3)	(8.9)	(1.4)	(1.32)	(1.4)
Pinellas County (103)	(0)	(4.2)	(<0.1)	(4.2)	(7.2)	(4.4)	(1.40)	(4.4)
Polk County (105)	(0)	(0.9)	(<0.1)	(0.9)	(4.5)	(1.7)	(1.54)	(1.7)
Balance of Florida	(0)	(0.4)	(0.2)	(0.4)	(57.3)	(1.5)	(1.50)	(1.5)
Georgia (13)	(0)	(0.7)	(0.6)	(0.3)	(60.7)	(1.6)	(1.46)	(1.6)
Cobb County (067)	(0)	(1.1)	(1.2)	(0.2)	(4.3)	(1.8)	(1.48)	(1.8)
DeKalb County (089)	(0)	(5.4)	(5.4)	(<0.1)	(4.8)	(5.5)	(1.53)	(5.5)
Fulton County (121)	(0)	(0.7)	(0.3)	(0.6)	(6.4)	(1.6)	(1.44)	(1.6)
Gwinnett County (135)	(0)	(0.9)	(<0.1)	(0.9)	(4.4)	(1.7)	(1.47)	(1.7)
Balance of Georgia	(0)	(0.8)	(0.6)	(0.4)	(46.3)	(1.8)	(1.64)	(1.8)
Hawaii (15)	(0)	(0.7)	(0.4)	(0.6)	(13.0)	(2.5)	(2.49)	(2.5)
Honolulu County (003)	(0)	(1.0)	(0.6)	(0.9)	(5.1)	(1.8)	(1.52)	(1.8)
Balance of Hawaii	(0)	(0.9)	(0.4)	(0.9)	(8.2)	(4.3)	(4.45)	(4.3)
Idaho (16)	(0)	(0.9)	(0.4)	(0.6)	(15.3)	(2.3)	(2.21)	(2.3)
Illinois (17)	(0)	(0.3)	(0.2)	(0.2)	(73.7)	(1.4)	(1.38)	(1.4)
Cook County (031)	(0)	(0.4)	(0.1)	(0.4)	(22.8)	(1.1)	(1.05)	(1.1)
DuPage County (043)	(0)	(1.0)	(0.4)	(0.6)	(5.1)	(1.7)	(1.41)	(1.7)
Kane County (089)	(0)	(0.7)	(<0.1)	(0.7)	(3.1)	(1.8)	(1.69)	(1.8)
Lake County (097)	(0)	(3.3)	(3.4)	(0.2)	(4.0)	(3.6)	(1.51)	(3.6)
Will County (197)	(0)	(0.4)	(0.4)	(0.4)	(3.7)	(1.6)	(1.53)	(1.6)
Balance of Illinois	(0)	(0.3)	(<0.1)	(0.3)	(38.3)	(1.8)	(1.81)	(1.8)
Indiana (18)	(0)	(0.2)	(0.1)	(0.2)	(45.2)	(1.6)	(1.59)	(1.6)
Marion County (097)	(0)	(0.3)	(<0.1)	(0.3)	(5.9)	(1.4)	(1.40)	(1.4)
Balance of Indiana	(0)	(0.3)	(0.1)	(0.2)	(41.4)	(1.7)	(1.71)	(1.7)
Iowa (19)	(0)	(0.5)	(0.2)	(0.4)	(25.8)	(1.9)	(1.91)	(1.9)
Kansas (20)	(0)	(0.4)	(0.2)	(0.3)	(24.2)	(2.0)	(1.94)	(2.0)
Johnson County (091)	(0)	(0.2)	(0.2)	(0.2)	(3.6)	(1.6)	(1.57)	(1.6)
Balance of Kansas	(0)	(0.5)	(0.2)	(0.4)	(23.6)	(2.3)	(2.31)	(2.3)
Kentucky (21)	(0)	(0.7)	(0.5)	(0.4)	(34.0)	(1.8)	(1.74)	(1.8)
Jefferson County (111)	(0)	(0.3)	(0.3)	(0.3)	(4.9)	(1.5)	(1.44)	(1.5)
Balance of Kentucky	(0)	(0.9)	(0.7)	(0.5)	(31.9)	(2.1)	(1.98)	(2.1)
Louisiana (22)	(0)	(0.7)	(0.3)	(0.5)	(34.4)	(1.8)	(1.72)	(1.8)
Maine (23)	(0)	(6.7)	(0.2)	(6.8)	(17.7)	(7.1)	(2.45)	(7.1)

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Table B2 Continued: Measures of Uncertainty for Counties

COUNTY	Census Count (Thousands)	Correct (%)	Erroneous (%)		Population Estimate (Thousands)	Correct (%)	Pct Undercount (%)	Omissions (%)
			Duplication	Other				
Maryland (24)	(0)	(0.4)	(0.4)	(0.3)	(39.7)	(1.7)	(1.65)	(1.7)
Anne Arundel County (003)	(0)	(1.5)	(0.9)	(1.0)	(3.4)	(2.2)	(1.60)	(2.2)
Baltimore County (005)	(0)	(0.4)	(0.4)	(0.2)	(4.9)	(1.5)	(1.44)	(1.5)
Montgomery County (031)	(0)	(0.7)	(0.7)	(0.2)	(5.3)	(1.6)	(1.41)	(1.6)
Prince George's County (033)	(0)	(1.4)	(<0.1)	(1.4)	(4.8)	(2.0)	(1.47)	(2.0)
Baltimore City (510)	(0)	(2.6)	(3.0)	(1.5)	(4.9)	(3.0)	(1.64)	(3.0)
Balance of Maryland	(0)	(0.8)	(0.6)	(0.5)	(20.7)	(2.5)	(2.43)	(2.5)
Massachusetts (25)	(0)	(1.4)	(1.1)	(1.0)	(45.3)	(2.1)	(1.62)	(2.1)
Bristol County (005)	(0)	(1.3)	(0.3)	(1.3)	(3.7)	(2.0)	(1.60)	(2.0)
Essex County (009)	(0)	(8.8)	(0.7)	(8.8)	(4.6)	(9.0)	(1.52)	(9.0)
Middlesex County (017)	(0)	(2.0)	(1.4)	(2.0)	(7.8)	(2.3)	(1.28)	(2.3)
Norfolk County (021)	(0)	(0.9)	(<0.1)	(0.9)	(4.1)	(1.7)	(1.52)	(1.7)
Suffolk County (025)	(0)	(8.0)	(8.7)	(1.6)	(5.0)	(8.3)	(1.65)	(8.3)
Worcester County (027)	(0)	(1.2)	(0.5)	(1.0)	(4.8)	(1.9)	(1.48)	(1.9)
Balance of Massachusetts	(0)	(1.0)	(0.5)	(0.8)	(19.7)	(2.7)	(2.58)	(2.7)
Michigan (26)	(0)	(1.1)	(0.1)	(1.0)	(65.6)	(1.8)	(1.42)	(1.8)
Kent County (081)	(0)	(3.9)	(3.9)	(3.9)	(3.9)	(4.2)	(1.55)	(4.2)
Macomb County (099)	(0)	(0.7)	(<0.1)	(0.7)	(5.1)	(1.6)	(1.40)	(1.6)
Oakland County (125)	(0)	(1.4)	(0.4)	(1.0)	(6.9)	(1.9)	(1.29)	(1.9)
Wayne County (163)	(0)	(0.9)	(0.4)	(0.8)	(10.0)	(1.4)	(1.20)	(1.4)
Balance of Michigan	(0)	(1.8)	(0.2)	(1.7)	(44.9)	(2.4)	(1.70)	(2.4)
Minnesota (27)	(0)	(1.7)	(1.5)	(0.3)	(40.2)	(2.3)	(1.68)	(2.3)
Hennepin County (053)	(0)	(0.3)	(0.3)	(<0.1)	(6.9)	(1.4)	(1.35)	(1.4)
Ramsey County (123)	(0)	(3.5)	(3.5)	(3.5)	(3.5)	(3.8)	(1.62)	(3.8)
Balance of Minnesota	(0)	(2.4)	(2.2)	(0.4)	(32.8)	(3.0)	(1.97)	(3.0)
Mississippi (28)	(0)	(1.3)	(0.8)	(1.3)	(25.1)	(2.3)	(1.95)	(2.3)
Missouri (29)	(0)	(0.4)	(0.1)	(0.4)	(45.6)	(1.7)	(1.66)	(1.7)
Jackson County (095)	(0)	(1.0)	(0.5)	(0.6)	(4.7)	(1.8)	(1.48)	(1.8)
St. Louis County (189)	(0)	(0.2)	(0.2)	(0.2)	(6.0)	(1.4)	(1.35)	(1.4)
Balance of Missouri	(0)	(0.5)	(0.2)	(0.5)	(38.2)	(1.9)	(1.91)	(1.9)
Montana (30)	(0)	(1.5)	(0.4)	(1.3)	(12.1)	(2.7)	(2.42)	(2.7)
Nebraska (31)	(0)	(0.6)	(0.3)	(0.6)	(17.4)	(2.2)	(2.15)	(2.2)
Douglas County (055)	(0)	(0.4)	(<0.1)	(0.4)	(3.5)	(1.6)	(1.60)	(1.6)
Balance of Nebraska	(0)	(0.8)	(0.4)	(0.8)	(16.4)	(2.8)	(2.80)	(2.8)
Nevada (32)	(0)	(0.2)	(0.1)	(0.2)	(23.5)	(2.0)	(1.96)	(2.0)
Clark County (003)	(0)	(0.1)	(0.1)	(<0.1)	(10.7)	(1.2)	(1.25)	(1.2)
Balance of Nevada	(0)	(0.7)	(0.4)	(0.7)	(11.5)	(3.3)	(3.32)	(3.3)
New Hampshire (33)	(0)	(3.1)	(0.3)	(3.1)	(14.6)	(3.8)	(2.34)	(3.8)

The rightmost four columns are an estimate of the root mean squared error. All other columns are an estimate of the standard error.

Table B2 Continued: Measures of Uncertainty for Counties

COUNTY	Census Count (Thous ands)	Correct (%)	Erroneous (%)		Population Estimate (Thous ands)	Correct (%)	Pct Undercount (%)	Omissions (%)
			Duplication	Other				
New Jersey (34)	(0)	(0.3)	(0.1)	(0.2)	(55.2)	(1.6)	(1.57)	(1.6)
Bergen County (003)	(0)	(0.8)	(0.5)	(0.5)	(5.1)	(1.6)	(1.46)	(1.6)
Camden County (007)	(0)	(1.0)	(<0.1)	(0.9)	(3.3)	(1.9)	(1.63)	(1.9)
Essex County (013)	(0)	(1.0)	(0.2)	(1.0)	(5.1)	(1.9)	(1.68)	(1.9)
Hudson County (017)	(0)	(1.9)	(0.4)	(1.7)	(4.9)	(2.7)	(1.92)	(2.7)
Middlesex County (023)	(0)	(1.5)	(<0.1)	(1.5)	(4.4)	(2.1)	(1.51)	(2.1)
Monmouth County (025)	(0)	(1.0)	(<0.1)	(1.0)	(4.1)	(1.9)	(1.57)	(1.9)
Ocean County (029)	(0)	(0.9)	(0.9)	(<0.1)	(4.5)	(1.9)	(1.62)	(1.9)
Passaic County (031)	(0)	(1.4)	(0.5)	(0.9)	(3.1)	(2.3)	(1.83)	(2.3)
Union County (039)	(0)	(1.9)	(0.7)	(1.9)	(3.3)	(2.6)	(1.70)	(2.6)
Balance of New Jersey	(0)	(0.4)	(0.2)	(0.3)	(26.7)	(2.2)	(2.19)	(2.2)
New Mexico (35)	(0)	(1.0)	(0.3)	(0.8)	(19.7)	(2.2)	(2.13)	(2.2)
Bernalillo County (001)	(0)	(1.7)	(0.5)	(1.2)	(4.3)	(2.2)	(1.49)	(2.2)
Balance of New Mexico	(0)	(1.3)	(0.5)	(1.2)	(17.8)	(2.9)	(2.79)	(2.9)
New York (36)	(0)	(0.3)	(0.1)	(0.3)	(106.1)	(1.3)	(1.34)	(1.3)
Bronx County (005)	(0)	(1.1)	(0.4)	(1.1)	(7.8)	(1.9)	(1.62)	(1.9)
Erie County (029)	(0)	(1.0)	(0.9)	(0.7)	(5.9)	(1.7)	(1.44)	(1.7)
Kings County (047)	(0)	(1.9)	(0.5)	(1.8)	(13.9)	(2.4)	(1.47)	(2.4)
Monroe County (055)	(0)	(1.1)	(1.1)	(<0.1)	(4.7)	(1.8)	(1.48)	(1.8)
Nassau County (059)	(0)	(1.6)	(0.4)	(1.6)	(6.3)	(2.0)	(1.35)	(2.0)
New York County (061)	(0)	(1.5)	(<0.1)	(1.5)	(11.6)	(2.0)	(1.41)	(2.0)
Queens County (081)	(0)	(1.6)	(0.4)	(1.5)	(11.1)	(2.1)	(1.40)	(2.1)
Suffolk County (103)	(0)	(0.9)	(0.4)	(0.8)	(8.0)	(1.6)	(1.38)	(1.6)
Westchester County (119)	(0)	(1.1)	(0.2)	(1.2)	(5.5)	(1.9)	(1.51)	(1.9)
Balance of New York	(0)	(0.5)	(0.2)	(0.4)	(47.7)	(1.7)	(1.74)	(1.7)
North Carolina (37)	(0)	(0.9)	(0.7)	(0.6)	(64.0)	(1.6)	(1.45)	(1.6)
Mecklenburg County (119)	(0)	(2.9)	(2.8)	(1.3)	(5.6)	(3.2)	(1.39)	(3.2)
Wake County (183)	(0)	(1.3)	(1.3)	(1.3)	(5.3)	(1.9)	(1.40)	(1.9)
Balance of North Carolina	(0)	(1.0)	(0.7)	(0.7)	(55.4)	(1.8)	(1.52)	(1.8)
North Dakota (38)	(0)	(0.5)	(0.3)	(0.5)	(8.9)	(2.7)	(2.72)	(2.7)
Ohio (39)	(0)	(0.3)	(0.1)	(0.3)	(71.9)	(1.4)	(1.38)	(1.4)
Cuyahoga County (035)	(0)	(1.5)	(0.6)	(1.4)	(8.1)	(2.0)	(1.30)	(2.0)
Franklin County (049)	(0)	(0.3)	(0.3)	(0.1)	(7.0)	(1.3)	(1.31)	(1.3)
Hamilton County (061)	(0)	(2.8)	(0.4)	(2.5)	(5.5)	(3.1)	(1.45)	(3.1)
Montgomery County (113)	(0)	(0.5)	(<0.1)	(0.5)	(3.9)	(1.6)	(1.53)	(1.6)
Summit County (153)	(0)	(0.7)	(0.7)	(0.7)	(3.8)	(1.7)	(1.54)	(1.7)
Balance of Ohio	(0)	(0.4)	(0.2)	(0.3)	(49.4)	(1.6)	(1.57)	(1.6)
Oklahoma (40)	(0)	(0.7)	(0.4)	(0.4)	(30.4)	(1.9)	(1.81)	(1.9)
Oklahoma County (109)	(0)	(0.6)	(<0.1)	(0.6)	(4.7)	(1.6)	(1.46)	(1.6)
Tulsa County (143)	(0)	(0.5)	(0.5)	(<0.1)	(4.1)	(1.6)	(1.52)	(1.6)
Balance of Oklahoma	(0)	(1.1)	(0.7)	(0.7)	(24.8)	(2.4)	(2.28)	(2.4)
Oregon (41)	(0)	(0.5)	(<0.1)	(0.5)	(30.4)	(1.8)	(1.77)	(1.8)
Multnomah County (051)	(0)	(0.5)	(<0.1)	(0.5)	(4.7)	(1.5)	(1.44)	(1.5)
Washington County (067)	(0)	(2.4)	(0.6)	(2.3)	(3.4)	(2.8)	(1.58)	(2.8)
Balance of Oregon	(0)	(0.5)	(<0.1)	(0.5)	(25.6)	(2.2)	(2.18)	(2.2)

The rightmost four columns are an estimate of the root mean squared error. All other columns are an estimate of the standard error.

Table B2 Continued: Measures of Uncertainty for Counties

COUNTY	Census Count (Thousands)	Correct (%)	Erroneous (%)		Population Estimate (Thousands)	Correct (%)	Pct Undercount (%)	Omissions (%)
			Duplication	Other				
Pennsylvania (42)	(0)	(0.4)	(0.3)	(0.2)	(77.9)	(1.4)	(1.40)	(1.4)
Allegheny County (003)	(0)	(1.0)	(0.6)	(1.0)	(7.7)	(1.6)	(1.31)	(1.6)
Bucks County (017)	(0)	(2.2)	(2.2)	(<0.1)	(3.8)	(2.6)	(1.54)	(2.6)
Delaware County (045)	(0)	(2.0)	(<0.1)	(2.0)	(3.5)	(2.6)	(1.58)	(2.6)
Lancaster County (071)	(0)	(1.4)	(<0.1)	(1.4)	(3.3)	(2.1)	(1.63)	(2.1)
Montgomery County (091)	(0)	(4.5)	(4.6)	(0.8)	(4.8)	(4.7)	(1.46)	(4.7)
Philadelphia County (101)	(0)	(1.1)	(<0.1)	(1.1)	(8.8)	(1.7)	(1.33)	(1.7)
Balance of Pennsylvania	(0)	(0.4)	(0.3)	(0.2)	(53.6)	(1.6)	(1.62)	(1.6)
Rhode Island (44)	(0)	(0.5)	(0.3)	(0.5)	(11.4)	(2.5)	(2.49)	(2.5)
Providence County (007)	(0)	(0.8)	(0.5)	(0.7)	(4.2)	(1.7)	(1.60)	(1.7)
Balance of Rhode Island	(0)	(0.7)	(<0.1)	(0.7)	(8.1)	(4.0)	(4.04)	(4.0)
South Carolina (45)	(0)	(1.2)	(0.3)	(1.2)	(37.2)	(2.0)	(1.70)	(2.0)
South Dakota (46)	(0)	(1.3)	(0.3)	(1.2)	(9.8)	(2.8)	(2.62)	(2.8)
Tennessee (47)	(0)	(0.4)	(0.3)	(0.4)	(45.0)	(1.6)	(1.58)	(1.6)
Davidson County (037)	(0)	(0.6)	(0.6)	(0.6)	(4.3)	(1.6)	(1.50)	(1.6)
Shelby County (157)	(0)	(0.9)	(0.6)	(0.6)	(5.6)	(1.6)	(1.41)	(1.6)
Balance of Tennessee	(0)	(0.6)	(0.3)	(0.5)	(38.3)	(1.8)	(1.77)	(1.8)
Texas (48)	(0)	(0.3)	(0.2)	(0.2)	(118.3)	(1.2)	(1.17)	(1.2)
Bexar County (029)	(0)	(1.0)	(<0.1)	(1.0)	(8.4)	(1.6)	(1.26)	(1.6)
Collin County (085)	(0)	(1.3)	(1.3)	(1.3)	(4.5)	(1.9)	(1.47)	(1.9)
Dallas County (113)	(0)	(1.1)	(1.1)	(0.2)	(11.0)	(1.6)	(1.16)	(1.6)
Denton County (121)	(0)	(2.6)	(<0.1)	(2.6)	(4.0)	(3.0)	(1.52)	(3.0)
El Paso County (141)	(0)	(1.8)	(0.3)	(1.6)	(4.2)	(2.4)	(1.57)	(2.4)
Fort Bend County (157)	(0)	(0.6)	(<0.1)	(0.6)	(3.3)	(1.7)	(1.63)	(1.7)
Harris County (201)	(0)	(1.6)	(1.6)	(0.3)	(16.9)	(1.9)	(1.05)	(1.9)
Hidalgo County (215)	(0)	(2.5)	(0.8)	(2.3)	(4.5)	(3.0)	(1.76)	(3.0)
Tarrant County (439)	(0)	(1.3)	(1.3)	(0.2)	(8.7)	(1.8)	(1.21)	(1.8)
Travis County (453)	(0)	(1.3)	(0.4)	(1.4)	(6.2)	(1.9)	(1.40)	(1.9)
Balance of Texas	(0)	(0.4)	(0.2)	(0.3)	(62.3)	(1.4)	(1.41)	(1.4)
Utah (49)	(0)	(2.0)	(2.0)	(0.4)	(20.2)	(2.7)	(2.01)	(2.7)
Salt Lake County (035)	(0)	(5.3)	(5.4)	(0.6)	(5.2)	(5.4)	(1.41)	(5.4)
Utah County (049)	(0)	(1.2)	(0.6)	(1.1)	(2.6)	(2.0)	(1.71)	(2.0)
Balance of Utah	(0)	(0.6)	(0.1)	(0.5)	(14.3)	(2.9)	(2.93)	(2.9)
Vermont (50)	(0)	(1.7)	(0.5)	(1.6)	(9.2)	(3.2)	(2.84)	(3.2)
Virginia (51)	(0)	(0.6)	(0.2)	(0.4)	(51.4)	(1.6)	(1.51)	(1.6)
Fairfax County (059)	(0)	(0.7)	(0.7)	(0.7)	(5.7)	(1.5)	(1.38)	(1.5)
Balance of Virginia	(0)	(0.6)	(0.3)	(0.4)	(47.4)	(1.7)	(1.58)	(1.7)
Washington (53)	(0)	(0.4)	(0.1)	(0.3)	(46.0)	(1.6)	(1.56)	(1.6)
King County (033)	(0)	(0.6)	(0.2)	(0.7)	(10.1)	(1.3)	(1.17)	(1.3)
Pierce County (053)	(0)	(0.5)	(0.3)	(0.4)	(4.8)	(1.5)	(1.45)	(1.5)
Snohomish County (061)	(0)	(1.4)	(0.8)	(0.8)	(4.3)	(2.0)	(1.49)	(2.0)
Balance of Washington	(0)	(0.6)	(0.1)	(0.6)	(29.6)	(2.1)	(2.02)	(2.1)
West Virginia (54)	(0)	(1.7)	(1.0)	(1.0)	(19.6)	(2.7)	(2.18)	(2.7)
Wisconsin (55)	(0)	(0.4)	(0.3)	(0.3)	(44.6)	(1.7)	(1.65)	(1.7)
Milwaukee County (079)	(0)	(0.4)	(0.4)	(0.4)	(5.9)	(1.5)	(1.42)	(1.5)
Balance of Wisconsin	(0)	(0.5)	(0.3)	(0.3)	(40.9)	(1.8)	(1.79)	(1.8)
Wyoming (56)	(0)	(0.8)	(0.7)	(0.7)	(7.6)	(2.8)	(2.82)	(2.8)

The rightmost four columns are an estimate of the root mean squared error. All other columns are an estimate of the standard error.

Table B3: Measures of Uncertainty for Places

PLACE	Census Count (Thous ands)	Correct (%)	Erroneous (%)		Population Estimate (Thous ands)	Correct (%)	Pct Undercount (%)	Omissions (%)
			Duplication	Other				
U.S. Total	(0)	(0.1)	(<0.1)	(<0.1)	(265.7)	(0.2)	(0.20)	(0.2)
Alabama (01)	(0)	(0.7)	(0.4)	(0.5)	(37.6)	(1.8)	(1.69)	(1.8)
Alaska (02)	(0)	(0.8)	(0.4)	(0.7)	(8.1)	(2.8)	(2.80)	(2.8)
Arizona (04)	(0)	(0.7)	(0.4)	(0.4)	(46.9)	(1.7)	(1.60)	(1.7)
Phoenix city (55000)	(0)	(0.4)	(0.2)	(0.3)	(7.7)	(1.3)	(1.29)	(1.3)
Tucson city (77000)	(0)	(0.8)	(<0.1)	(0.8)	(3.7)	(1.7)	(1.57)	(1.7)
Balance of Arizona	(0)	(1.0)	(0.6)	(0.6)	(38.6)	(2.0)	(1.84)	(2.0)
Arkansas (05)	(0)	(1.2)	(0.3)	(1.2)	(25.5)	(2.2)	(1.90)	(2.2)
California (06)	(0)	(0.2)	(0.1)	(0.2)	(151.9)	(1.1)	(1.10)	(1.1)
Los Angeles (44000)	(0)	(0.4)	(0.2)	(0.3)	(15.2)	(1.1)	(1.08)	(1.1)
San Diego city (66000)	(0)	(1.0)	(0.3)	(1.1)	(6.8)	(1.6)	(1.31)	(1.6)
San Francisco city (67000)	(0)	(0.4)	(0.1)	(0.4)	(5.5)	(1.5)	(1.44)	(1.5)
San Jose city (68000)	(0)	(3.9)	(<0.1)	(3.9)	(4.6)	(4.1)	(1.47)	(4.1)
Balance of California	(0)	(0.3)	(0.1)	(0.3)	(115.1)	(1.0)	(1.02)	(1.0)
Colorado (08)	(0)	(0.3)	(0.2)	(0.2)	(37.5)	(1.7)	(1.67)	(1.7)
Denver city (20000)	(0)	(0.3)	(0.3)	(<0.1)	(4.3)	(1.5)	(1.50)	(1.5)
Balance of Colorado	(0)	(0.4)	(0.2)	(0.3)	(35.9)	(1.8)	(1.83)	(1.8)
Connecticut (09)	(0)	(0.6)	(0.5)	(0.2)	(27.6)	(1.9)	(1.87)	(1.9)
Delaware (10)	(0)	(0.6)	(0.3)	(0.4)	(10.5)	(2.6)	(2.54)	(2.6)
District of Columbia (11)	(0)	(0.7)	(0.2)	(0.6)	(8.2)	(2.8)	(2.77)	(2.8)
Florida (12)	(0)	(0.7)	(0.5)	(0.6)	(113.4)	(1.4)	(1.24)	(1.4)
Jacksonville (35000)	(0)	(3.1)	(3.1)	(0.3)	(5.3)	(3.3)	(1.43)	(3.3)
Balance of Florida	(0)	(0.7)	(0.5)	(0.6)	(101.0)	(1.3)	(1.15)	(1.3)
Georgia (13)	(0)	(0.7)	(0.6)	(0.3)	(60.7)	(1.6)	(1.46)	(1.6)
Hawaii (15)	(0)	(0.7)	(0.4)	(0.6)	(13.0)	(2.5)	(2.49)	(2.5)
Idaho (16)	(0)	(0.9)	(0.4)	(0.6)	(15.3)	(2.3)	(2.21)	(2.3)
Illinois (17)	(0)	(0.3)	(0.2)	(0.2)	(73.7)	(1.4)	(1.38)	(1.4)
Chicago city (14000)	(0)	(0.6)	(0.2)	(0.6)	(15.2)	(1.4)	(1.29)	(1.4)
Balance of Illinois	(0)	(0.3)	(0.2)	(0.2)	(59.0)	(1.4)	(1.42)	(1.4)
Indiana (18)	(0)	(0.2)	(0.1)	(0.2)	(45.2)	(1.6)	(1.59)	(1.6)
Indianapolis city (36003)	(0)	(0.3)	(<0.1)	(0.3)	(5.5)	(1.5)	(1.43)	(1.5)
Balance of Indiana	(0)	(0.3)	(0.1)	(0.2)	(41.8)	(1.7)	(1.70)	(1.7)
Iowa (19)	(0)	(0.5)	(0.2)	(0.4)	(25.8)	(1.9)	(1.91)	(1.9)
Kansas (20)	(0)	(0.4)	(0.2)	(0.3)	(24.2)	(2.0)	(1.94)	(2.0)
Kentucky (21)	(0)	(0.7)	(0.5)	(0.4)	(34.0)	(1.8)	(1.74)	(1.8)
Louisville/Jefferson County (48006)	(0)	(0.5)	(0.5)	(0.5)	(4.1)	(1.6)	(1.52)	(1.6)
Balance of Kentucky	(0)	(0.8)	(0.6)	(0.5)	(32.7)	(2.0)	(1.95)	(2.0)
Louisiana (22)	(0)	(0.7)	(0.3)	(0.5)	(34.4)	(1.8)	(1.72)	(1.8)

The rightmost four columns are an estimate of the root mean squared error. All other columns are an estimate of the standard error.

Table B3 Continued: Measures of Uncertainty for Places

PLACE	Census Count (Thousands)	Correct (%)	Erroneous (%)		Population Estimate (Thousands)	Correct (%)	Pct Undercount (%)	Omissions (%)
			Duplication	Other				
Maine (23)	(0)	(6.7)	(0.2)	(6.8)	(17.7)	(7.1)	(2.45)	(7.1)
Maryland (24)	(0)	(0.4)	(0.4)	(0.3)	(39.7)	(1.7)	(1.65)	(1.7)
Baltimore (04000)	(0)	(2.6)	(3.0)	(1.5)	(4.9)	(3.0)	(1.64)	(3.0)
Balance of Maryland	(0)	(0.4)	(0.3)	(0.3)	(37.5)	(1.8)	(1.78)	(1.8)
Massachusetts (25)	(0)	(1.4)	(1.1)	(1.0)	(45.3)	(2.1)	(1.62)	(2.1)
Boston city (07000)	(0)	(9.1)	(10.0)	(1.8)	(4.4)	(9.5)	(1.70)	(9.5)
Balance of Massachusetts	(0)	(1.1)	(0.4)	(1.1)	(43.1)	(2.0)	(1.70)	(2.0)
Michigan (26)	(0)	(1.1)	(0.1)	(1.0)	(65.6)	(1.8)	(1.42)	(1.8)
Detroit city (22000)	(0)	(1.8)	(1.0)	(1.6)	(5.3)	(2.3)	(1.51)	(2.3)
Balance of Michigan	(0)	(1.2)	(0.1)	(1.1)	(60.5)	(1.8)	(1.42)	(1.8)
Minnesota (27)	(0)	(1.7)	(1.5)	(0.3)	(40.2)	(2.3)	(1.68)	(2.3)
Mississippi (28)	(0)	(1.3)	(0.8)	(1.3)	(25.1)	(2.3)	(1.95)	(2.3)
Missouri (29)	(0)	(0.4)	(0.1)	(0.4)	(45.6)	(1.7)	(1.66)	(1.7)
Montana (30)	(0)	(1.5)	(0.4)	(1.3)	(12.1)	(2.7)	(2.42)	(2.7)
Nebraska (31)	(0)	(0.6)	(0.3)	(0.6)	(17.4)	(2.2)	(2.15)	(2.2)
Nevada (32)	(0)	(0.2)	(0.1)	(0.2)	(23.5)	(2.0)	(1.96)	(2.0)
Las Vegas city (40000)	(0)	(0.4)	(0.4)	(<0.1)	(3.9)	(1.6)	(1.58)	(1.6)
Balance of Nevada	(0)	(0.3)	(0.2)	(0.2)	(22.5)	(2.4)	(2.35)	(2.4)
New Hampshire (33)	(0)	(3.1)	(0.3)	(3.1)	(14.6)	(3.8)	(2.34)	(3.8)
New Jersey (34)	(0)	(0.3)	(0.1)	(0.2)	(55.2)	(1.6)	(1.57)	(1.6)
New Mexico (35)	(0)	(1.0)	(0.3)	(0.8)	(19.7)	(2.2)	(2.13)	(2.2)
Albuquerque (02000)	(0)	(2.0)	(0.6)	(1.4)	(3.7)	(2.5)	(1.55)	(2.5)
Balance of New Mexico	(0)	(1.2)	(0.4)	(1.1)	(18.7)	(2.8)	(2.72)	(2.8)
New York (36)	(0)	(0.3)	(0.1)	(0.3)	(106.1)	(1.3)	(1.34)	(1.3)
New York (51000)	(0)	(0.7)	(0.2)	(0.7)	(36.0)	(1.3)	(1.12)	(1.3)
Balance of New York	(0)	(0.3)	(0.2)	(0.3)	(67.2)	(1.4)	(1.42)	(1.4)
North Carolina (37)	(0)	(0.9)	(0.7)	(0.6)	(64.0)	(1.6)	(1.45)	(1.6)
Charlotte city (12000)	(0)	(3.6)	(3.4)	(1.6)	(4.7)	(3.8)	(1.47)	(3.8)
Balance of North Carolina	(0)	(0.9)	(0.6)	(0.6)	(59.6)	(1.7)	(1.45)	(1.7)
North Dakota (38)	(0)	(0.5)	(0.3)	(0.5)	(8.9)	(2.7)	(2.72)	(2.7)
Ohio (39)	(0)	(0.3)	(0.1)	(0.3)	(71.9)	(1.4)	(1.38)	(1.4)
Columbus (18000)	(0)	(0.4)	(0.4)	(<0.1)	(5.3)	(1.5)	(1.42)	(1.5)
Balance of Ohio	(0)	(0.3)	(0.1)	(0.3)	(65.7)	(1.4)	(1.36)	(1.4)
Oklahoma (40)	(0)	(0.7)	(0.4)	(0.4)	(30.4)	(1.9)	(1.81)	(1.9)
Oklahoma City (55000)	(0)	(0.9)	(0.2)	(0.8)	(4.0)	(1.8)	(1.53)	(1.8)
Balance of Oklahoma	(0)	(0.8)	(0.5)	(0.5)	(29.4)	(2.1)	(2.07)	(2.1)

The rightmost four columns are an estimate of the root mean squared error. All other columns are an estimate of the standard error.

Table B3 Continued: Measures of Uncertainty for Places

PLACE	Census Count (Thousands)	Correct (%)	Erroneous (%)		Population Estimate (Thousands)	Correct (%)	Pct Undercount (%)	Omissions (%)
			Duplication	Other				
Oregon (41)	(0)	(0.5)	(<0.1)	(0.5)	(30.4)	(1.8)	(1.77)	(1.8)
Portland (59000)	(0)	(0.4)	(0.4)	(0.4)	(4.0)	(1.6)	(1.50)	(1.6)
Balance of Oregon	(0)	(0.5)	(0.1)	(0.5)	(29.3)	(2.1)	(2.02)	(2.1)
Pennsylvania (42)	(0)	(0.4)	(0.3)	(0.2)	(77.9)	(1.4)	(1.40)	(1.4)
Philadelphia (60000)	(0)	(1.1)	(<0.1)	(1.1)	(8.8)	(1.7)	(1.33)	(1.7)
Balance of Pennsylvania	(0)	(0.4)	(0.4)	(0.2)	(68.6)	(1.4)	(1.40)	(1.4)
Rhode Island (44)	(0)	(0.5)	(0.3)	(0.5)	(11.4)	(2.5)	(2.49)	(2.5)
South Carolina (45)	(0)	(1.2)	(0.3)	(1.2)	(37.2)	(2.0)	(1.70)	(2.0)
South Dakota (46)	(0)	(1.3)	(0.3)	(1.2)	(9.8)	(2.8)	(2.62)	(2.8)
Tennessee (47)	(0)	(0.4)	(0.3)	(0.4)	(45.0)	(1.6)	(1.58)	(1.6)
Memphis city (48000)	(0)	(1.2)	(0.8)	(0.8)	(4.5)	(1.9)	(1.52)	(1.9)
Nashville-Davidson metropolitan (52006)	(0)	(0.3)	(0.3)	(0.3)	(4.2)	(1.5)	(1.52)	(1.5)
Balance of Tennessee	(0)	(0.5)	(0.3)	(0.5)	(39.7)	(1.8)	(1.74)	(1.8)
Texas (48)	(0)	(0.3)	(0.2)	(0.2)	(118.3)	(1.2)	(1.17)	(1.2)
Austin city (05000)	(0)	(1.5)	(0.6)	(1.5)	(5.3)	(2.1)	(1.49)	(2.1)
Dallas city (19000)	(0)	(2.0)	(2.0)	(0.3)	(6.9)	(2.4)	(1.34)	(2.4)
El Paso city (24000)	(0)	(0.6)	(<0.1)	(0.6)	(3.7)	(1.7)	(1.62)	(1.7)
Fort Worth (27000)	(0)	(3.2)	(3.3)	(0.2)	(4.4)	(3.5)	(1.49)	(3.5)
Houston (35000)	(0)	(0.9)	(0.8)	(0.5)	(10.9)	(1.5)	(1.22)	(1.5)
San Antonio (65000)	(0)	(0.4)	(<0.1)	(0.4)	(7.0)	(1.4)	(1.34)	(1.4)
Balance of Texas	(0)	(0.4)	(0.3)	(0.2)	(85.6)	(1.2)	(1.17)	(1.2)
Utah (49)	(0)	(2.0)	(2.0)	(0.4)	(20.2)	(2.7)	(2.01)	(2.7)
Vermont (50)	(0)	(1.7)	(0.5)	(1.6)	(9.2)	(3.2)	(2.84)	(3.2)
Virginia (51)	(0)	(0.6)	(0.2)	(0.4)	(51.4)	(1.6)	(1.51)	(1.6)
Washington (53)	(0)	(0.4)	(0.1)	(0.3)	(46.0)	(1.6)	(1.56)	(1.6)
Seattle (63000)	(0)	(1.8)	(0.4)	(1.9)	(4.6)	(2.3)	(1.48)	(2.3)
Balance of Washington	(0)	(0.4)	(0.1)	(0.4)	(43.5)	(1.7)	(1.65)	(1.7)
West Virginia (54)	(0)	(1.7)	(1.0)	(1.0)	(19.6)	(2.7)	(2.18)	(2.7)
Wisconsin (55)	(0)	(0.4)	(0.3)	(0.3)	(44.6)	(1.7)	(1.65)	(1.7)
Milwaukee city (53000)	(0)	(0.6)	(0.6)	(0.6)	(4.1)	(1.7)	(1.60)	(1.7)
Balance of Wisconsin	(0)	(0.4)	(0.3)	(0.3)	(42.8)	(1.8)	(1.75)	(1.8)
Wyoming (56)	(0)	(0.8)	(0.7)	(0.7)	(7.6)	(2.8)	(2.82)	(2.8)

The rightmost four columns are an estimate of the root mean squared error. All other columns are an estimate of the standard error.