## 2006-2010 ACS 5-Year Under Mandatory Methods

<table>
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<th>Percentage of Census Tracts with Acceptable Quality Data</th>
<th>County</th>
<th>Under 20%, Total population of 2.48M in 154 counties.</th>
<th>20-40%, Total population of 12.42M in 228 counties.</th>
<th>40-60%, Total population of 97.59M in 582 counties.</th>
<th>60-80%, Total population of 141.24M in 874 counties.</th>
<th>Over 80%, Total population of 55.01M in 1,305 counties.</th>
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<tbody>
<tr>
<td>Population figures are 2010 Census total population.</td>
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## 2006-2010 ACS 5-Year Under Simulated Voluntary Methods

**Fixed Budget - Reduced Sample Size***

*Voluntary Effect Modeled based on the 2003 ACS Voluntary Test Results*
Alabama
Percentage of Census Tracts with Acceptable Quality Data

Counties
Mandatory Methods

- Under 20%, Total population 0.05M in 3 counties
- 20-40%, Total population 0.50M in 13 counties
- 40-60%, Total population 2.13M in 22 counties
- 60-80%, Total population 1.62M in 21 counties
- Over 80%, Total population 0.48M in 8 counties

Counties
Simulated Voluntary Methods

- Under 20%, Total population 2.55M in 35 counties
- 20-40%, Total population 1.22M in 23 counties
- 40-60%, Total population 0.36M in 6 counties
- 60-80%, Total population 0.05M in 2 counties
- Over 80%, Total population 0.10M in 1 county

Population figures are 2010 Census total population.
Burroughs
Mandatory Methods
- Under 20%, Total population 23K in 6 burroughs.
- 20-40%, None.
- 40-60%, Total population 116K in 5 burroughs.
- 60-80%, Total population 454K in 4 burroughs.
- Over 80%, Total population 117K in 14 burroughs.

Burroughs
Simulated Voluntary Methods
- Under 20%, Total population 45K in 11 burroughs.
- 20-40%, Total population 187K in 2 burroughs.
- 40-60%, Total population 403K in 9 burroughs.
- Over 80%, Total population 75K in 7 burroughs.

Population figures are 2010 Census total population.
Arizona
Percentage of Census Tracts with Acceptable Quality Data

Counties
Mandatory Methods

- Under 20%, None.
- 20-40%, Total population 0.23M in 4 counties.
- 40-60%, Total population 0.66M in 5 counties.
- 60-80%, Total population 1.50M in 6 counties.
- Over 80%, None.

Counties
Simulated Voluntary Methods

- Under 20%, None.
- 20-40%, Total population 0.93M in 5 counties.
- 40-60%, Total population 4.44M in 8 counties.
- 60-80%, None.
- Over 80%, None.

Population figures are 2010 Census total population.
Arkansas
Percentage of Census Tracts with Acceptable Quality Data

Counties
Mandatory Methods
- Under 20%, Total population 0.05M in 3 counties.
- 20-40%, Total population 0.16M in 7 counties.
- 40-60%, Total population 0.95M in 14 counties.
- 60-80%, Total population 0.72M in 22 counties.
- Over 80%, Total population 1.04M in 29 counties.

Counties
Simulated Voluntary Methods
- Under 20%, Total population 0.97M in 26 counties.
- 20-40%, Total population 0.73M in 17 counties.
- 40-60%, Total population 0.90M in 18 counties.
- 60-80%, Total population 0.28M in 10 counties.
- Over 80%, Total population 0.04M in 4 counties.

Population figures are 2010 Census total population.
California
Percentage of Census Tracts with Acceptable Quality Data

Counties
Mandatory Methods
- 0-20%, Total population of 0.02M in 2 counties.
- 20-40%, Total population of 0.08M in 3 counties.
- 40-60%, Total population of 3.26M in 11 counties.
- 60-80%, Total population of 30.26M in 32 counties.
- Over 80%, Total population of 3.63M in 10 counties.

Counties
Simulated Voluntary Methods
- 0-20%, Total population of 1.06M in 13 counties.
- 20-40%, Total population of 21.90M in 20 counties.
- 40-60%, Total population of 14.09M in 23 counties.
- 60-80%, Total population of 0.20M in 2 counties.
- Over 80%, None.

Population figures are 2010 Census total population.
Counties
Mandatory Methods
- Under 20%, Total population 0.13M in 10 counties.
- 20-40%, Total population 0.37M in 5 counties.
- 40-60%, Total population 1.47M in 12 counties.
- 60-80%, Total population 2.28M in 15 counties.
- Over 80%, Total population 0.78M in 22 counties.

Counties
Simulated Voluntary Methods
- Under 20%, Total population 1.05M in 28 counties.
- 20-40%, Total population 2.25M in 13 counties.
- 40-60%, Total population 1.66M in 11 counties.
- 60-80%, Total population 0.01M in 1 county.
- Over 80%, Total population 0.66M in 11 counties.
Percentage of Census Tracts with Acceptable Quality Data

**Counties Mandatory Methods**
- Under 20%, None.
- 20-40%, None.
- 40-60%, None.
- 60-80%, Total population 3.29M in 6 counties.
- Over 80%, Total population 0.28M in 2 counties.

**Counties Simulated Voluntary Methods**
- Under 20%, None.
- 20-40%, Total population 2.43M in 5 counties.
- 40-60%, Total population 1.15M in 3 counties.
- 60-80%, None.
- Over 80%, None.

Population figures are 2010 Census total population.
Delaware
Percentage of Census Tracts with Acceptable Quality Data

Counts
Mandatory Methods
- Under 20%, None.
- 20-40%, None.
- 40-60%, Total population 197K in 1 county.
- 60-80%, Total population 700K in 2 counties.
- Over 80%, None.

Counts
Simulated Voluntary Methods
- Under 20%, None.
- 20-40%, None.
- 40-60%, Total population 898K in 3 counties.
- 60-80%, None.
- Over 80%, None.

Population figures are 2010 Census total population.
District of Columbia
Percentage of Census Tracts with Acceptable Quality Data

Countries
Mandatory Methods
- Under 20%, None.
- 20-40%, None.
- 40-60%, Total population 662K in 1 county.
- 60-80%, None.
- Over 80%, None.

Counties
Simulated Voluntary Methods
- Under 20%, None.
- 20-40%, Total population 662K in 1 county.
- 40-60%, None.
- 60-80%, None.
- Over 80%, None.

Population figures are 2010 Census total population.
Florida
Percentage of Census Tracts with Acceptable Quality Data

Counties
Mandatory Methods
- Under 20%, Total population: 0.10M in 6 counties.
- 20-40%, Total population: 1.27M in 10 counties.
- 40-60%, Total population: 5.69M in 22 counties.
- 60-80%, Total population: 11.62M in 26 counties.
- Over 80%, Total population: 0.12M in 3 counties.

Counties
Simulated Voluntary Methods
- Under 20%, Total population: 3.16M in 26 counties.
- 20-40%, Total population: 11.76M in 31 counties.
- 40-60%, Total population: 3.89M in 10 counties.
- 60-80%, None.
- Over 80%, None.

Population figures are 2010 Census total population.
Georgia
Percentage of Census Tracts with Acceptable Quality Data

**Counties**

**Mandatory Methods**
- Over 80%, Total population 1.63M in 23 counties.
- 60-80%, Total population 4.10M in 47 counties.
- 40-60%, Total population 2.58M in 41 counties.
- 20-40%, Total population 0.92M in 27 counties.
- Under 20%, Total population 0.46M in 21 counties.

**Counties**

**Simulated Voluntary Methods**
- Over 80%, Total population 0.04M in 6 counties.
- 60-80%, Total population 0.88M in 5 counties.
- 40-60%, Total population 1.35M in 20 counties.
- 20-40%, Total population 5.18M in 52 counties.
- Under 20%, Total population 2.23M in 76 counties.

Population figures are 2010 Census total population.
Hawaii
Percentage of Census Tracts with Acceptable Quality Data

Counties
Mandatory Methods
- Under 20%, Total population 90 people in 1 county.
- 20-40%, None.
- 40-60%, Total population 155K in 1 county.
- 60-80%, Total population 953K in 1 county.
- Over 80%, Total population 252K in 2 counties.

Counties
Simulated Voluntary Methods
- Under 20%, Total population 90 people in 1 county.
- 20-40%, Total population 155K in 1 county.
- 40-60%, Total population 953K in 1 county.
- 60-80%, Total population 252K in 2 counties.
- Over 80%, None.

Population figures are 2010 Census total population.
**Idaho**

**Percentage of Census Tracts with Acceptable Quality Data**

**Counties Mandatory Methods**

- **Under 20%**, Total population 1K in 1 county.
- **20-40%**, Total population 18K in 1 county.
- **40-60%**, Total population 49K in 2 counties.
- **60-80%**, Total population 569K in 11 counties.
- **Over 80%**, Total population 933K in 29 counties.

**Counties Simulated Voluntary Methods**

- **Under 20%**, Total population 94K in 10 counties.
- **20-40%**, Total population 257K in 7 counties.
- **40-60%**, Total population 920K in 8 counties.
- **60-80%**, Total population 139K in 5 counties.
- **Over 80%**, Total population 157K in 14 counties.

Population figures are 2010 Census total population.
Illinois
Percentage of Census Tracts with Acceptable Quality Data

Counties
Mandatory Methods

- Under 20%, None.
- 20-40%, Total population 0.69M in 3 counties.
- 40-60%, Total population 6.41M in 11 counties.
- 60-80%, Total population 3.37M in 23 counties.
- Over 80%, Total population 2.35M in 65 counties.

Counties
Simulated Voluntary Methods

- Under 20%, Total population 1.75M in 10 counties.
- 20-40%, Total population 8.03M in 20 counties.
- 40-60%, Total population 1.92M in 27 counties.
- 60-80%, Total population 0.88M in 31 counties.
- Over 80%, Total population 0.25M in 14 counties.

Population figures are 2010 Census total population.
Indiana
Percentage of Census Tracts with Acceptable Quality Data

Counties
Mandatory Methods
- Under 20%, None.
- 20-40%, None.
- 40-60%, Total population 1.04M in 16 counties.
- 60-80%, Total population 3.56M in 30 counties.
- Over 80%, Total population 1.88M in 46 counties.

Counties
Simulated Voluntary Methods
- Under 20%, Total population 0.27M in 8 counties.
- 20-40%, Total population 3.60M in 33 counties.
- 40-60%, Total population 2.08M in 39 counties.
- 60-80%, Total population 0.45M in 9 counties.
- Over 80%, Total population 0.08M in 3 counties.

Population figures are 2010 Census total population.
Iowa Percentage of Census Tracts with Acceptable Quality Data

Counties
Mandatory Methods
- Under 20%, Total population 0.01M in 1 county.
- 20-40%, Total population 0.02M in 2 counties.
- 40-60%, Total population 0.55M in 7 counties.
- 60-80%, Total population 1.16M in 24 counties.
- Over 80%, Total population 1.31M in 65 counties.

Counties
Simulated Voluntary Methods
- Under 20%, Total population 0.34M in 8 counties.
- 20-40%, Total population 1.25M in 22 counties.
- 40-60%, Total population 0.51M in 20 counties.
- 60-80%, Total population 0.72M in 34 counties.
- Over 80%, Total population 0.22M in 15 counties.

Population figures are 2010 Census total population.
Kansas
Percentage of Census Tracts with Acceptable Quality Data

Counties
Mandatory Methods
- Under 20%, Total population 0.03M in 2 counties.
- 20-40%, Total population 0.22M in 4 counties.
- 40-60%, Total population 0.59M in 11 counties.
- 60-80%, Total population 1.25M in 21 counties.
- Over 80%, Total population 0.79M in 67 counties.

Counties
Simulated Voluntary Methods
- Under 20%, Total population 0.28M in 16 counties.
- 20-40%, Total population 1.40M in 13 counties.
- 40-60%, Total population 0.63M in 28 counties.
- 60-80%, Total population 0.31M in 13 counties.
- Under 80%, Total population 0.24M in 35 counties.

Population figures are 2010 Census total population.
Counties

Mandatory Methods

Under 20%, Total population 0.10M in 8 counties.
20-40%, Total population 0.60M in 27 counties.
40-60%, Total population 1.28M in 33 counties.
60-80%, Total population 1.88M in 32 counties.
Over 80%, Total population 0.48M in 20 counties.

Counties

Simulated Voluntary Methods

Under 20%, Total population 1.01M in 40 counties.
20-40%, Total population 2.52M in 47 counties.
40-60%, Total population 0.71M in 25 counties.
60-80%, Total population 0.07M in 5 counties.
Over 80%, Total population 0.02M in 3 counties.
Louisiana
Percentage of Census Tracts with Acceptable Quality Data

Parishes
Mandatory Methods
- Under 20%, Total population 0.43M in 6 parishes.
- 20-40%, Total population 0.12M in 6 parishes.
- 40-60%, Total population 1.34M in 16 parishes.
- 60-80%, Total population 2.21M in 24 parishes.
- Over 80%, Total population 0.43M in 12 parishes.

Parishes
Simulated Voluntary Methods
- Under 20%, Total population 1.86M in 31 parishes.
- 20-40%, Total population 1.71M in 16 parishes.
- 40-60%, Total population 0.77M in 11 parishes.
- 60-80%, Total population 0.09M in 3 parishes.
- Over 80%, Total population 0.10M in 3 parishes.

Population figures are 2010 Census total population.
Maine
Percentage of Census Tracts with Acceptable Quality Data

Counties
Mandatory Methods
- Under 20%, None.
- 20-40%, None.
- 40-60%, None.
- 60-80%, Total population 621K in 4 counties.
- Over 80%, Total population 707K in 12 counties.

Counties
Simulated Voluntary Methods
- Under 20%, None.
- 20-40%, Total population 587K in 3 counties.
- 40-60%, Total population 264K in 5 counties.
- 60-80%, Total population 406K in 6 counties.
- Over 80%, Total population 72K in 2 counties.

Population figures are 2010 Census total population.
Maryland
Percentage of Census Tracts with Acceptable Quality Data

Counties
Mandatory Methods
- Under 20%, None.
- 20-40%, Total population 0.08M in 2 counties.
- 40-60%, Total population 3.74M in 10 counties.
- 60-80%, Total population 1.78M in 10 counties.
- Over 80%, Total population 0.18M in 2 counties.

Counties
Simulated Voluntary Methods
- Under 20%, Total population 3.30M in 11 counties.
- 20-40%, Total population 1.76M in 6 counties.
- 40-60%, Total population 0.72M in 7 counties.
- Over 80%, None.

Population figures are 2010 Census total population.
Massachusetts
Percentage of Census Tracts with Acceptable Quality Data

Counties
Mandatory Methods
- Under 20%, None.
- 20-40%, Total population 0.23M in 2 counties.
- 40-60%, None.
- 60-80%, Total population 4.73M in 9 counties.
- Over 80%, Total population 1.57M in 2 counties.

Counties
Simulated Voluntary Methods
- Under 20%, Total population 0.23M in 2 counties.
- 20-40%, Total population 2.52M in 5 counties.
- 40-60%, Total population 3.73M in 6 counties.
- 60-80%, Total population 0.07M in 1 county.
- Over 80%, None.

Population figures are 2010 Census total population.
Michigan
Percentage of Census Tracts with Acceptable Quality Data

Counties
Mandatory Methods
- Under 20%, None.
- 20-40%, Total population 2.00M in 2 counties.
- 40-60%, Total population 3.53M in 12 counties.
- 60-80%, Total population 1.91M in 13 counties.
- Over 80%, Total population 2.44M in 56 counties.

Counties
Simulated Voluntary Methods
- Under 20%, Total population 3.23M in 4 counties.
- 20-40%, Total population 3.97M in 17 counties.
- 40-60%, Total population 1.19M in 17 counties.
- 60-80%, Total population 0.74M in 18 counties.
- Over 80%, Total population 0.76M in 27 counties.

Population figures are 2010 Census total population.
Minnesota
Percentage of Census Tracts with Acceptable Quality Data

Counties
Mandatory Methods
- Under 20%, Total population 0.004M in 1 county.
- 20-40%, None.
- 40-60%, Total population 0.422M in 2 counties.
- 60-80%, Total population 2.828M in 12 counties.
- Over 80%, Total population 2.050M in 72 counties.

Counties
Simulated Voluntary Methods
- Under 20%, Total population 0.33M in 2 counties.
- 20-40%, Total population 2.20M in 5 counties.
- 40-60%, Total population 1.03M in 13 counties.
- 60-80%, Total population 0.64M in 17 counties.
- Over 80%, Total population 1.10M in 50 counties.

Population figures are 2010 Census total population.
Counties
Mandatory Methods
- Under 20%, Total population 0.02M in 3 counties.
- 20-40%, Total population 0.36M in 13 counties.
- 40-60%, Total population 1.11M in 17 counties.
- 60-80%, Total population 0.98M in 28 counties.
- Over 80%, Total population 0.50M in 21 counties.

Counties
Simulated Voluntary Methods
- Under 20%, Total population 1.78M in 38 counties.
- 20-40%, Total population 0.84M in 27 counties.
- 40-60%, Total population 0.28M in 12 counties.
- 60-80%, Total population 0.05M in 3 counties.
- Over 80%, Total population 0.02M in 2 counties.

Population figures are 2010 Census total population.
Missouri
Percentage of Census Tracts with Acceptable Quality Data

Counties
Mandatory Methods
Under 20%, None.
20-40%, None.
40-60%, Total population 1.15M in 8 counties.
60-80%, Total population 2.52M in 31 counties.
Over 80%, Total population 2.32M in 76 counties.

Counties
Simulated Voluntary Methods
Under 20%, Total population 1.16M in 9 counties.
20-40%, Total population 1.28M in 21 counties.
40-60%, Total population 2.00M in 25 counties.
60-80%, Total population 0.98M in 27 counties.
Over 80%, Total population 0.56M in 33 counties.

Population figures are 2010 Census total population.
Montana
Percentage of Census Tracts with Acceptable Quality Data

Counties
Mandatory Methods
- Under 20%, Total population 22K in 8 counties.
- 20-40%, Total population 34K in 3 counties.
- 40-60%, Total population 157K in 6 counties.
- 60-80%, Total population 606K in 13 counties.
- Over 80%, Total population 169K in 26 counties.

Counties
Simulated Voluntary Methods
- Under 20%, Total population 68K in 17 counties.
- 20-40%, Total population 628K in 15 counties.
- 40-60%, Total population 185K in 6 counties.
- 60-80%, Total population 51K in 5 counties.
- Over 80%, Total population 58K in 13 counties.

Population figures are 2010 Census total population.
Nebraska
Percentage of Census Tracts with Acceptable Quality Data

Counties
Mandatory Methods
- Under 20%, Total population 8K in 12 counties.
- 20-40%, Total population 8K in 1 county.
- 40-60%, Total population 717K in 7 counties.
- 60-80%, Total population 433K in 7 counties.
- Over 80%, Total population-562K in 66 counties.

Counties
Simulated Voluntary Methods
- Under 20%, Total population 183K in 19 counties.
- 20-40%, Total population 506K in 7 counties.
- 40-60%, Total population 207K in 16 counties.
- 60-80%, Total population 203K in 14 counties.
- Over 80%, Total population-225K in 37 counties.

Population figures are 2010 Census total population.
Nevada
Percentage of Census Tracts with Acceptable Quality Data

Counties
Mandatory Methods
- Under 20%, Total population ≤0.02M in 5 counties.
- 20-40%, Total population >0.02M ≤0.16M in 4 counties.
- 40-60%, Total population >0.16M ≤2.04M in 4 counties.
- 60-80%, Total population >2.04M ≤0.48M in 2 counties.
- Over 80%, Total population >0.48M in 2 counties.

Counties
Simulated Voluntary Methods
- Under 20%, Total population ≤0.20M in 10 counties.
- 20-40%, Total population >0.20M ≤2.49M in 5 counties.
- 40-60%, None.
- 60-80%, None.
- Over 80%, Total population >2.49M in 2 counties.

Population figures are 2010 Census total population.
New Hampshire
Percentage of Census Tracts with Acceptable Quality Data

Coos  Grafton  Carroll  Merrimack  Cheshire  Hillsborough  Sullivan  Belknap  Rockingham  Strafford

Counties
Mandatory Methods
- Under 20%, None.
- 20-40%, Total population 403K in 3 counties.
- 40-60%, Total population 547K in 2 counties.
- 60-80%, None.
- Over 80%, Total population 122K in 2 counties.

Counties
Simulated Voluntary Methods
- Under 20%, Total population 403K in 3 counties.
- 20-40%, Total population 547K in 2 counties.
- 40-60%, Total population 244K in 3 counties.
- 60-80%, Total population 122K in 2 counties.
- Over 80%, None.

Population figures are 2010 Census total population.
New Jersey
Percentage of Census Tracts with Acceptable Quality Data

Counties
Mandatory Methods
- Under 20%, None.
- 20-40%, Total population 0.97M in 1 county.
- 40-60%, Total population 3.93M in 10 counties.
- 60-80%, Total population 4.53M in 8 counties.
- Over 80%, Total population 0.24M in 2 counties.

Counties
Simulated Voluntary Methods
- Under 20%, Total population 2.16M in 7 counties.
- 20-40%, Total population 6.52M in 13 counties.
- 40-60%, Total population 0.11M in 1 county.
- 60-80%, None.
- Over 80%, None.

Population figures are 2010 Census total population.
New Mexico
Percentage of Census Tracts with Acceptable Quality Data

**Counties**

**Mandatory Methods**
- Under 20%, Total population 0.13M in 2 counties.
- 20-40%, Total population 0.07M in 1 county.
- 40-60%, Total population 0.43M in 7 counties.
- 60-80%, Total population 1.16M in 9 counties.
- Over 80%, Total population 0.27M in 14 counties.

**Counties**

**Simulated Voluntary Methods**
- Under 20%, Total population 0.52M in 12 counties.
- 20-40%, Total population 1.08M in 7 counties.
- 40-60%, Total population 0.39M in 6 counties.
- 60-80%, Total population 0.05M in 2 counties.
- Over 80%, Total population 0.02M in 6 counties.

Population figures are 2010 Census total population.
New York
Percentage of Census Tracts with Acceptable Quality Data

Counties Mandatory Methods
- Under 20%, None.
- 20-40%, Total population 0.05M in 2 counties.
- 40-60%, Total population 13.10M in 15 counties.
- 60-80%, Total population 3.03M in 21 counties.
- Over 80%, Total population 3.20M in 24 counties.

Counties Simulated Voluntary Methods
- Under 20%, Total population 8.97M in 11 counties.
- 20-40%, Total population 6.79M in 20 counties.
- 40-60%, Total population 0.96M in 15 counties.
- 60-80%, Total population 2.44M in 12 counties.
- Over 80%, Total population 0.21M in 4 counties.

Population figures are 2010 Census total population.
North Carolina
Percentage of Census Tracts with Acceptable Quality Data

Counties
Mandatory Methods
- Under 20%, Total population 0.68M in 7 counties.
- 20-40%, Total population 0.79M in 12 counties.
- 40-60%, Total population 4.22M in 32 counties.
- 60-80%, Total population 2.69M in 31 counties.
- Over 80%, Total population 1.36M in 18 counties.

Counties
Simulated Voluntary Methods
- Under 20%, Total population 3.88M in 48 counties.
- 20-40%, Total population 4.28M in 36 counties.
- 40-60%, Total population 1.16M in 12 counties.
- 60-80%, Total population 0.16M in 3 counties.
- Over 80%, Total population 0.06M in 1 county.

Population figures are 2010 Census total population.
North Dakota
Percentage of Census Tracts with Acceptable Quality Data

Counties
Mandatory Methods
- Under 20%, Total population 7K in 3 counties.
- 20-40%, Total population 6K in 1 county.
- 40-60%, Total population 7K in 2 counties.
- 60-80%, Total population 149K in 10 counties.
- Over 80%, Total population 503K in 37 counties.

Counties
Simulated Voluntary Methods
- Under 20%, Total population 57K in 12 counties.
- 20-40%, Total population 201K in 5 counties.
- 40-60%, Total population 184K in 6 counties.
- 60-80%, Total population 136K in 8 counties.
- Over 80%, Total population 94K in 22 counties.

Population figures are 2010 Census total population.
Ohio
Percentage of Census Tracts with Acceptable Quality Data

Counties
Mandatory Methods

- Under 20%, None.
- 20-40%, Total population 0.08M in 2 counties.
- 40-60%, Total population 5.95M in 19 counties.
- 60-80%, Total population 3.18M in 25 counties.
- Over 80%, Total population 2.33M in 42 counties.

Counties
Simulated Voluntary Methods

- Under 20%, Total population 2.54M in 5 counties.
- 20-40%, Total population 6.42M in 38 counties.
- 40-60%, Total population 1.78M in 26 counties.
- 60-80%, Total population 0.61M in 13 counties.
- Over 80%, Total population 0.19M in 6 counties.

Population figures are 2010 Census total population.
Texas
Osage
Ellis
Beaver
Kay
Cimarron
Caddo
Le Flore
McCurtain
Grant
Grady
Major
Atoka
Kiowa
Creek
Bryan
Pittsburg
Harper
Custer
Blaine
Dewey
Alfalfa
Garfield
Lincoln
Carter
Garvin
Logan
Woodward
Greer
Coal
Pushmataha
Adair
Tulsa
Payne
Love
Hughes
Mayes
Mayes
Roger Mills
Rogers
Comanche
Jackson
Latimer
Beckham
Canadian
Cotton
Stephens
Kingfisher
Choctaw
Jefferson
Delaware
Muskogee
Haskell
Pontotoc
Cherokee
McIntosh
Nowata
Pawnee
Johnston
Sequoyah
Oklahoma
Ottawa
Okmulgee
Okfuskee
Harmon
Wagoner
Murray
McClain
Seminole
Pottawatomie
Cleveland
Marshall
Washington
Oklahoma
Percentage of Census Tracts with Acceptable Quality Data

Counties
Mandatory Methods

Under 20%, None.
20-40%, Total population 0.18M in 4 counties.
40-60%, Total population 1.82M in 11 counties.
60-80%, Total population 0.95M in 28 counties.
Over 80%, Total population 0.80M in 34 counties.

Counties
Simulated Voluntary Methods

Under 20%, Total population 1.07M in 13 counties.
20-40%, Total population 1.34M in 17 counties.
40-60%, Total population 0.79M in 22 counties.
60-80%, Total population 0.40M in 16 counties.
Over 80%, Total population 0.15M in 9 counties.

Population figures are 2010 Census total population.
Oregon
Percentage of Census Tracts with Acceptable Quality Data

Counties
Mandatory Methods

Under 20%, None.
20-40%, None.
40-60%, Total population 0.50M in 6 counties.
60-80%, Total population 1.01M in 8 counties.
Over 80%, Total population 2.32M in 22 counties.

Counties
Simulated Voluntary Methods

Under 20%, Total population 0.07M in 2 counties.
20-40%, Total population 0.61M in 7 counties.
40-60%, Total population 2.35M in 13 counties.
60-80%, Total population 0.74M in 7 counties.
Over 80%, Total population 0.06M in 7 counties.

Population figures are 2010 Census total population.
Pennsylvania
Percentage of Census Tracts with Acceptable Quality Data

Counties
Mandatory Methods
- Under 20%, None.
- 20-40%, None.
- 40-60%, Total population 5.65M in 8 counties.
- 60-80%, Total population 3.61M in 17 counties.
- Over 80%, Total population 3.44M in 42 counties.

Counties
Simulated Voluntary Methods
- Under 20%, Total population 2.77M in 4 counties.
- 20-40%, Total population 5.55M in 17 counties.
- 40-60%, Total population 2.91M in 16 counties.
- 60-80%, Total population 0.89M in 14 counties.
- Over 80%, Total population 0.59M in 16 counties.

Population figures are 2010 Census total population.
Rhode Island
Percentage of Census Tracts with Acceptable Quality Data

Population figures are 2010 Census total population.

Counties Mandatory Methods
- Under 20%, None.
- 20-40%, None.
- 40-60%, Total population 210K in 2 counties.
- 60-80%, Total population 168K in 1 county.
- Over 80%, None.

Counties Simulated Voluntary Methods
- Under 20%, None.
- 20-40%, None.
- 40-60%, Total population 210K in 2 counties.
- 60-80%, Total population 168K in 1 county.
- Over 80%, None.
South Carolina
Percentage of Census Tracts with Acceptable Quality Data

Counties
Mandatory Methods
- Under 20%, Total population 0.02M in 1 county.
- 20-40%, Total population 1.00M in 9 counties.
- 40-60%, Total population 2.24M in 18 counties.
- 60-80%, Total population 1.17M in 13 counties.
- Over 80%, Total population 0.20M in 5 counties.

Counties
Simulated Voluntary Methods
- Under 20%, Total population 2.80M in 23 counties.
- 20-40%, Total population 1.69M in 20 counties.
- 40-60%, Total population 0.10M in 2 counties.
- 60-80%, Total population 0.04M in 1 county.
- Over 80%, None.

Population figures are 2010 Census total population.
South Dakota
Percentage of Census Tracts with Acceptable Quality Data

Counties
Mandatory Methods
- Under 20%, Total population 12K in 6 counties.
- 20-40%, None.
- 40-60%, Total population 201K in 5 counties.
- 60-80%, Total population 178K in 26 counties.
- Over 80%, Total population 178K in 26 counties.

Counties
Simulated Voluntary Methods
- Under 20%, Total population 62K in 15 counties.
- 20-40%, Total population 340K in 6 counties.
- 40-60%, Total population 176K in 15 counties.
- 60-80%, Total population 57K in 4 counties.
- Over 80%, Total population 178K in 26 counties.

Population figures are 2010 Census total population.
Tennessee
Percentage of Census Tracts with Acceptable Quality Data

Counties
Mandatory Methods

- **Under 20%**: Total population 0.01M in 2 counties.
- **20-40%**: Total population 0.35M in 10 counties.
- **40-60%**: Total population 3.19M in 30 counties.
- **60-80%**: Total population 1.96M in 30 counties.
- **Over 80%**: Total population 0.83M in 23 counties.

Population figures are 2010 Census total population.

Counties
Simulated Voluntary Methods

- **Under 20%**: Total population 2.41M in 26 counties.
- **20-40%**: Total population 3.14M in 42 counties.
- **40-60%**: Total population 0.63M in 18 counties.
- **60-80%**: Total population 0.11M in 6 counties.
- **Over 80%**: Total population 0.06M in 3 counties.
Simulated Voluntary Methods

Counties

- Over 80%, Total population 3.50M in 101 counties.
- 60-80%, Total population 18.56M in 83 counties.
- 40-60%, Total population 2.71M in 38 counties.
- 20-40%, Total population 0.30M in 15 counties.
- Under 20%, Total population 0.08M in 17 counties.

Population figures are 2010 Census total population.
Utah
Percentage of Census Tracts with Acceptable Quality Data

<table>
<thead>
<tr>
<th>Counties</th>
<th>Mandatory Methods</th>
<th>Simulated Voluntary Methods</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Under 20%, Total population 0.04M in 3 counties.</td>
<td>Under 20%, Total population 0.053M in 12 counties.</td>
</tr>
<tr>
<td></td>
<td>20-40%, Total population 0.55M in 2 counties.</td>
<td>20-40%, Total population 1.845M in 8 counties.</td>
</tr>
<tr>
<td></td>
<td>40-60%, Total population 0.67M in 9 counties.</td>
<td>40-60%, Total population 0.179M in 3 counties.</td>
</tr>
<tr>
<td></td>
<td>60-80%, Total population 1.43M in 8 counties.</td>
<td>60-80%, Total population 0.091M in 5 counties.</td>
</tr>
<tr>
<td></td>
<td>Over 80%, Total population 0.08M in 7 counties.</td>
<td>Over 80%, Total population 0.002M in 1 county.</td>
</tr>
</tbody>
</table>

Population figures are 2010 Census total population.
Vermont
Percentage of Census Tracts with Acceptable Quality Data

Population figures are 2010 Census total population.
Percentage of Census Tracts with Acceptable Quality Data

**Mandatory Methods**
- Under 20%, Total population 0.26M in 14 counties.
- 20-40%, Total population 0.64M in 18 counties.
- 40-60%, Total population 3.54M in 36 counties.
- 60-80%, Total population 2.93M in 43 counties.
- Over 80%, Total population 0.63M in 23 counties.

**Simulated Voluntary Methods**
- Under 20%, Total population 2.84M in 64 counties.
- 20-40%, Total population 3.79M in 40 counties.
- 40-60%, Total population 0.99M in 17 counties.
- 60-80%, Total population 0.34M in 8 counties.
- Over 80%, Total population 0.05M in 5 counties

Population figures are 2010 Census total population.
Washington
Percentage of Census Tracts with Acceptable Quality Data

Counties
Mandatory Methods
- Under 20%, None.
- 20-40%, Total population 0.01M in 1 county.
- 40-60%, Total population 0.55M in 5 counties.
- 60-80%, Total population 2.45M in 12 counties.
- Over 80%, Total population 3.71M in 21 counties.

Counties
Simulated Voluntary Methods
- Under 20%, Total population 0.04M in 4 counties.
- 20-40%, Total population 0.75M in 6 counties.
- 40-60%, Total population 3.69M in 18 counties.
- 60-80%, Total population 2.22M in 8 counties.
- Over 80%, Total population 0.02M in 3 counties.

Population figures are 2010 Census total population.
West Virginia
Percentage of Census Tracts with Acceptable Quality Data

Counties
Mandatory Methods
- Under 20%, None.
- 20-40%, Total population 0.14M in 7 counties.
- 40-60%, Total population 0.63M in 15 counties.
- 60-80%, Total population 0.72M in 21 counties.
- Over 80%, Total population 0.35M in 12 counties.

Counties
Simulated Voluntary Methods
- Under 20%, Total population 0.32M in 14 counties.
- 20-40%, Total population 1.11M in 24 counties.
- 40-60%, Total population 0.16M in 7 counties.
- 60-80%, Total population 0.19M in 7 counties.
- Over 80%, Total population 0.06M in 3 counties.

Population figures are 2010 Census total population.
Wisconsin
Percentage of Census Tracts with Acceptable Quality Data

**Counties**

**Mandatory Methods**
- Under 20%, None.
- 20-40%, None.
- 40-60%, Total population 1.38M in 4 counties.
- 60-80%, Total population 1.96M in 13 counties.
- Over 80%, Total population 2.35M in 55 counties.

**Simulated Voluntary Methods**
- Under 20%, Total population 1.11M in 4 counties.
- 20-40%, None.
- 40-60%, Total population 1.42M in 8 counties.
- 60-80%, Total population 0.75M in 13 counties.
- Over 80%, Total population 0.95M in 34 counties.

Population figures are 2010 Census total population.
Wyoming

Percentage of Census Tracts with Acceptable Quality Data

Counties
Mandatory Methods

- Under 20%, None.
- 20-40%, Total population 74K in 3 counties.
- 40-60%, Total population 272K in 9 counties.
- 60-80%, Total population 18K in 1 county.
- Over 80%, Total population 200K in 10 counties.

Counties
Simulated Voluntary Methods

- Under 20%, Total population 205K in 11 counties.
- 20-40%, Total population 287K in 7 counties.
- 40-60%, Total population 50K in 4 counties.
- 60-80%, None.
- Over 80%, Total population 21K in 1 county.

Population figures are 2010 Census total population.