2012-2014 National Surveys on Drug Use and Health: Guide to Substate Tables and Summary of Small Area Estimation Methodology

## Section A: Overview

## A.1. Introduction

This document provides a guide on the development and presentation of model-based small area estimates of the prevalence of substance use and mental disorders in substate regions based on data from the combined 2012-2014 National Surveys on Drug Use and Health (NSDUHs). The estimates along with this document and other related information are available at http://www.samhsa.gov/data/.

An annual survey of the civilian, noninstitutionalized population aged 12 or older, NSDUH is sponsored by the Substance Abuse and Mental Health Services Administration (SAMHSA). It collects information from individuals residing in households, noninstitutionalized group quarters (e.g., shelters, rooming houses, dormitories), and civilians living on military bases. In 2012-2014, NSDUH collected data from 204,048 respondents aged 12 or older and was designed to obtain representative samples from the 50 states and the District of Columbia. The survey is planned and managed by SAMHSA's Center for Behavioral Health Statistics and Quality (CBHSQ). Data collection and analysis were conducted under contract with RTI International. ${ }^{1}$

The 1999 through 2001 National Household Surveys on Drug Abuse (NHSDAs) ${ }^{2}$ and the 2002 through 2013 NSDUHs employed a 50-state design with an independent, multistage area probability sample for each of the 50 states and the District of Columbia. For the 50 -state design, 8 states were designated as large sample states (California, Florida, Illinois, Michigan, New York, Ohio, Pennsylvania, and Texas) with target sample sizes of 3,600 per year. For the remaining 42 states and the District of Columbia, the target sample size was 900 per year. This approach ensured that there was sufficient sample in every state to support small area estimation (SAE) production at the state and substate level, while at the same time maintaining efficiency for national estimates. The design also oversampled youths aged 12 to 17 and young adults aged 18 to 25 so that each state's sample was approximately equally distributed among three major age groups: 12 to 17 years, 18 to 25 years, and 26 years or older.

A coordinated design was developed for the 2014 through 2017 NSDUHs. Similar to the 1999 through 2013 surveys, the coordinated 4 -year design is state-based with an independent, multistage area probability sample within each state and the District of Columbia. This design designates 12 states as large sample states. These 12 states have the following target sample sizes per year: 4,560 interviews in California; 3,300 interviews in Florida, New York, and Texas; 2,400 interviews in Illinois, Michigan, Ohio, and Pennsylvania; and 1,500 interviews in Georgia, New Jersey, North Carolina, and Virginia. Making the sample sizes more proportional to the state population sizes improves the precision of national NSDUH estimates. This change also allows for a more cost-efficient sample allocation to the largest states while slightly increasing

[^0]the sample sizes in smaller states to improve the precision of state and substate estimates (note that the target sample size per year in the small states is 960 interviews with the exception of Hawaii where the target sample size is 967 interviews).

Starting in 2014, the allocation of the NSDUH sample is 25 percent for adolescents aged 12 to 17,25 percent for adults aged 18 to 25 , and 50 percent for adults aged 26 or older. The sample of adults aged 26 or older is further divided into three subgroups: aged 26 to 34 ( 15 percent), aged 35 to 49 ( 20 percent), and aged 50 or older ( 15 percent). For more information on the 2014 through the 2017 NSDUH sample design and for differences between the 2013 and 2014 surveys, refer to the 2014 NSDUH sample design report (CBHSQ, 2015).

This marks the seventh time ${ }^{3}$ that estimates for substate regions (also referred to as planning regions or substate areas) in all 50 states and the District of Columbia have been presented by SAMHSA. Here, substate-level small area estimates are provided for 25 binary $(0,1)$ substance use or mental health measures using combined data from the 2012-2014 NSDUHs for individuals aged 12 or older (or adults 18 or older for the four mental disorders, and individuals aged 12 to 20 for underage alcohol and binge alcohol use). For a list of outcomes for which substate-level estimates are available, refer to Table A1 at the end of this section. These substate estimates are available at http://www.samhsa.gov/data/. The list of products (e.g., tables, maps, substate region definitions) related to the 2012-2014 substate estimates is provided in Section A.2.

Estimates for 384 substate regions were generated using the 2012-2014 NSDUH data. These substate regions were defined by government officials from each of the 50 states and the District of Columbia and were typically based on the substance abuse treatment planning regions specified by the states in their applications for the Substance Abuse Prevention and Treatment Block Grant (SABG) administered by SAMHSA. The SABG program provides financial and technical assistance to the 50 states, the District of Columbia, and other jurisdictions to support substance abuse prevention and treatment programs and to promote public health. States use NSDUH substate estimates for a variety of purposes, including strategic planning and program development, production of epidemiological profiles for briefing state legislatures and informing the public, allocating funds to substate areas based on the need for services, and other uses. More information on defining these regions is available in Section A.3.

Section A. 4 discusses the methodological changes that were introduced in the 2002 NSDUH. An unanticipated result of these changes was that the prevalence rates for 2002 were in general substantially higher than those for 2001. As a result, the 1999-2001 substate estimates are not comparable with the other substate estimates. Section A. 5 discussed related substance use measures and warns users about not drawing conclusions by subtracting small area estimates from two different measures.

Section B provides information on the SAE methodology used to produce substate estimates. Section C includes the population estimates and the combined 2012, 2013, and 2014 NSDUH sample sizes and response rates for each substate region. Users may find the population

[^1]estimates helpful in calculating the prevalence estimate for any combination of substate regions or to determine the number of people using a particular substance in a substate region. For example, the number of individuals aged 12 or older who used marijuana in the past month in Alabama's Region 1 ( 53,712 individuals) can be obtained by multiplying the prevalence rate (4.71 percent) from Table 3 in the "2012-2014 NSDUH Substate Regions: Excel Tables" (see http://www.samhsa.gov/data/) and the population estimate from Table C1 $(1,140,380)$ in this document. Section D lists the references cited in this document, and Section E provides a list of contributors to the production of the 2012-2014 substate estimates.

## A.2. Presentation of Findings

The following products associated with the 2012-2014 substate estimates are available at http://www.samhsa.gov/data/:

- 2012-2014 NSDUH Substate Region Estimates: Excel Tables: These Excel tables for each outcome show the prevalence estimates and confidence intervals (CIs) for individuals aged 12 or older ( 12 to 20 for underage alcohol and 18 or older for the four mental health outcomes).
- 2012-2014 NSDUH National Maps of Prevalence Estimates, by Substate Region: More information about these maps is provided in Section A.3.
- 2012-2014 NSDUH Substate Region Definitions: This document includes maps and tables that show the substate region definitions in terms of census tracts or counties.
- 2012-2014 NSDUH Substate Region Shapefile: This shapefile includes geographic boundaries of the substate regions and associated prevalence rates. It also includes the map group (one to seven) and associated lower and upper bounds of the group for each substate region. It can be used for analysis and data display with Geographic Information System (GIS) software.
- 2012-2014 NSDUH Substate Age Group Tables: Tables of prevalence estimates for youths aged 12 to 17 , young adults aged 18 to 25 , adults aged 26 or older, and adults aged 18 or older are provided for each measure and for substate regions having sufficient precision. These tables are available in Excel and PDF format.
- 2012-2014 NSDUH Substate Region Estimates Categorized into Seven Groups, by Age Group: This table shows the ranges of prevalence estimates for each outcome categorized into seven groups from lowest to highest estimate for age groups 12 to 17,18 to 25,26 or older, and 18 or older. Information from this table can be used by users who wish to develop state or national maps similar to those produced for the 12 or older age group.
- 2012-2014 NSDUH State-Specific Substate Region Tables and Maps: These state-specific tables and maps show substate region estimates for each state separately for individuals aged 12 or older ( 18 or older for the mental health outcomes and 12 to 20 for the two underage alcohol outcomes). Note that the seven groups shown on each state-level map are taken from the national maps.
- Comparison of 2010-2012 and 2012-2014 NSDUH Substate Region Estimates:

These tables show the 2010-2012 and 2012-2014 substate estimates and 95 percent Bayesian CIs, along with an indication of the statistical significance of the difference ( $p$ value).
The methodology used to conduct significance tests is provided after the last table. The 20102012 estimates are compared with the 2012-2014 estimates for the 356 regions that remained the same over these two time periods (see Table A2 at the end of this section for the number of regions that remained the same between 2010-2012 and 2012-2014 for each state).

- Comparison of 2002-2004 and 2012-2014 NSDUH Substate Region Estimates:

These tables show the 2002-2004 and 2012-2014 substate estimates and 95 percent Bayesian CIs, along with an indication of the statistical significance of the difference ( $p$ value). The methodology used to conduct significance tests is provided after the last table. The 20022004 estimates are compared with the 2012-2014 estimates for the 264 regions and the outcome measures that remained the same over these two time periods (for the list of outcome measures, see Table A1 at the end of this section, and for the number of regions that remained the same between 2002-2004 and 2012-2014 for each state, see Table A2).

Note that other products may be added to the 2012-2014 NSDUH substate homepage at a later date.

## A.3. Formation and Ranking of Substate Regions

The substate regions for each state were developed in a series of communications during the fall of 2015 between SAMHSA staff and state officials responsible for the SABG application. There is extensive variation in the size and use of substate regions across the states. In some states, the substate regions are used more for administrative purposes rather than for planning purposes. The goal of the project was to provide substate-level estimates showing the geographic distribution of substance use prevalence for regions that states would find useful for planning and reporting purposes. The final substate region boundaries were based on the state's recommendations, assuming that the NSDUH sample sizes were large enough to provide estimates with adequate precision. Most states defined regions in terms of counties or groups of counties. A few states defined the regions in terms of census tracts. Several states also requested estimates for aggregate substate regions, along with the estimates for their substate regions. An aggregate substate region is made up of two or more substate regions. These substate region definitions are available in a document titled "2012-2014 NSDUH Substate Region Definitions" (see http://www.samhsa.gov/data/ as listed in Section A.2). Some of the states (specifically, New Hampshire, New York, Texas, and Washington) wanted the maps to be produced only for the aggregate regions. For example, New York has 15 substate regions, and those 15 regions were combined to create 4 aggregate regions that are used in the maps. Hence, for each measure, maps were produced for 362 regions and not for 384 regions.

These 362 substate regions used in the maps were ranked from lowest to highest for each measure and were divided into seven categories (based on estimates rounded to 2 decimals) designed to represent distributions that are somewhat symmetric, like a normal distribution. Colors were assigned to all substate regions such that the third having the lowest prevalence are in blue ( 121 substate regions), the middle third are in white ( 120 substate regions), and the third with the highest prevalence are in red (121 substate regions). The only exceptions were the three
perception-of-risk outcomes shown in Figure 4 (marijuana), Figure 11 (alcohol), and Figure 16 (cigarettes) of the national maps, which have the highest estimates represented in blue and the lowest estimates represented in red to reflect the inverse relationship between substance use and the perception of risk of using that substance. To further distinguish among the substate regions that display relatively higher prevalence, the "highest" third in red has been subdivided into (a) dark red for the 16 substate regions with the highest estimates, (b) medium red for the 33 substate regions with the next highest estimates, and (c) light red for the 72 substate regions in the third highest group. The "lowest" third is categorized in a similar way using three distinct shades of blue. In some cases, a group (or category) could have more or fewer substate regions because two (or more) substate regions have the same estimate (to two decimal places). When such ties occurred at the "boundary" between two groups, all substate regions with the same estimate (to two decimal places) were assigned to the lower group. The upper and lower limits of each of the seven categories shown in the map legend collectively define a continuum and are not necessarily the actual values of a particular substate region. For example, in Figure 9 (national map showing alcohol use in the past month among persons aged 12 or older) (see the "2012-2014 NSDUH National Maps of Prevalence Estimates, by Substate Region" at http://www.samhsa.gov/data/), the values on the boundary in the lowest category (group 1) correspond to Utah County in Utah (21.37 percent) and Catchment Area 7 in Arkansas ( 36.38 percent) and are displayed in the legend. In the next to lowest category, Catchment Area 4 in Arkansas ( 37.39 percent) and Communicare and River Valley in Kentucky ( 43.54 percent) are the regions with the lowest and highest values; however, in the continuum of the legend, the lower limit for group 2, was assigned a value of 36.39 percent because the upper limit of group 1 is 36.38 percent. These national maps are available at http://www.samhsa.gov/data/ as listed in Section A.2.

The 2012-2014 substate estimates and corresponding Bayesian CIs are available in the "2012-2014 NSDUH Substate Region Estimates: Excel Tables" (as mentioned in Section A.2, see http://www.samhsa.gov/data/). These tables also contain a sort order number and a mapgroup indicator ( $=1$ for the nation, $=2$ for census regions, $=3$ for states, $=4$ if a region is part of the 362 mapping regions, and $=5$ for all other substate/aggregate regions not included on the maps).

In addition to the substate region estimates, comparable estimates are provided for the 50 states and the District of Columbia and also for the four census regions. Design-based estimates and corresponding CIs for the nation are also included. Because these estimates are based on 3 consecutive years of data, they are not directly comparable with the annually published state, census region, or national estimates that are based on only 2 consecutive years of NSDUH data. The U.S. Census Bureau defines the census regions as follows:

Northeast Region - Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, and Vermont.

Midwest Region - Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, and Wisconsin.

South Region - Alabama, Arkansas, Delaware, District of Columbia, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia, and West Virginia.

West Region - Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, and Wyoming.

## A.4. Comparability with Past Estimates

For the 2002 NSDUH, a number of methodological changes were introduced, including a \$30 incentive for participating in the survey, additional training for interviewers to encourage adherence to survey protocols, a change in the survey name, and a shift to the 2000 decennial census (from the 1990 census) as a basis for population counts used in sample selection, weighting, and estimation. Additional information on these methodological changes is available in a report by the Office of Applied Studies (OAS, 2005). ${ }^{4}$ An unanticipated result of these changes was that the prevalence rates for 2002 were in general substantially higher than the 2001 prevalence rates. The jump in the prevalence rates between 2001 and 2002 was more than the usual year-to-year change. Because of the changes in the survey that took place in 2002, substate estimates for 1999-2001 are not comparable with the other substate estimates. It is not possible to separate the effect of the methodological changes from the true trends in substance use.

However, estimates from 2002-2004, 2004-2006, 2006-2008, 2008-2010, 2010-2012, and 2012-2014 are comparable for outcome measures that were defined in a similar manner and for substate regions defined consistently across these time periods. Table A1 at the end of this section lists the outcome measures for which substate estimates were produced using 2012-2014 NSDUH data and shows the outcome measures that remained comparable over time (indicated with an "X" in the table) since 2002-2004.

It is useful to note that the 2002-2004 to 2008-2010 substate estimates were produced using predictors from the 2000 census; also, the survey weights used population projections from the 2000 census. The 2010-2012 and 2012-2014 estimates, on the other hand, were produced using 2010 census data. Hence, when reviewing changes between 2002-2004 and 2012-2014, it is important to note that they may be confounded with changes due to differences in the source of the predictors and the population projections (referred to as "census effects"). The impact of such census effects on national and state estimates is discussed in Section B.4.3 in Appendix B of the 2011 NSDUH national findings report (CBHSQ, 2012) and the "2011-2012 NSDUH: Impact of Using 2010 Census Data on 2010-2011 Small Area Estimates" at http://www.samhsa.gov/data/.

During regular data collection and processing checks for the 2011 NSDUH, data errors were identified. These errors were falsified cases submitted by field interviewers that affected the data for Pennsylvania (2006 to 2010) and Maryland (2008 and 2009). Cases with erroneous data were removed from the data files, and the remaining cases were reweighted to provide representative estimates (for more details on this data error, refer to Section A. 7 of the "20112012 NSDUH Guide to State Tables and Summary of Small Area Estimation Methodology" at

[^2]http://www.samhsa.gov/data/). The 2008-2010 and the 2010-2012 substate estimates exclude data based on falsified cases.

## A.5. Related Substance Use Measures

Small area estimates are produced for a number of related drug measures, such as marijuana use and illicit drug use. It might appear that one could draw conclusions by subtracting one from the other (e.g., subtracting the percentage who used illicit drugs other than marijuana in the past month from the percentage who used illicit drugs in the past month to find the percentage who only used marijuana in the past month). Because related measures have been estimated with different models (i.e., separate models by age group and outcome), subtracting one measure from another related measure at the substate region, state, or census region level can give misleading results, perhaps even a "negative" estimate, and should be avoided. However, these comparisons can be made at the national level because these estimates are design-based estimates. For example, at the national level, subtracting cigarette use estimates from tobacco use estimates will give the estimate of individuals who did not use cigarettes, but used other forms of tobacco.

## Table A1. Outcomes, by Survey Year, for Which Substate Small Area Estimates Are Available

| Measure | $\begin{aligned} & \hline 2002- \\ & 2004 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline 2004- \\ & 2006 \end{aligned}$ | $\begin{aligned} & 2006- \\ & 2008 \end{aligned}$ | $\begin{aligned} & \hline 2008- \\ & 2010 \\ & \hline \end{aligned}$ | $\begin{gathered} \hline 2010- \\ 2012 \end{gathered}$ | $\begin{gathered} \hline 2012- \\ 2014 \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Illicit Drug Use in the Past Month | X | X | X | X | X | X |
| Marijuana Use in the Past Year | X | X | X | X | X | X |
| Marijuana Use in the Past Month | X | X | X | X | X | X |
| Perceptions of Great Risk from Smoking Marijuana Once a Month | X | X | X | X | X | X |
| First Use of Marijuana ${ }^{1}$ | X | X | X | X | X | X |
| Illicit Drug Use Other Than Marijuana in the Past Month | X | X | X | X | X | X |
| Cocaine Use in the Past Year | X | X | X | X | X | X |
| Nonmedical Use of Pain Relievers in the Past Year | X | X | X | X | X | X |
| Alcohol Use in the Past Month | X | X | X | X | X | X |
| Underage Past Month Use of Alcohol (among Individuals Aged 12 to 20) | X | X | X | X | X | X |
| Binge Alcohol Use in the Past Month | X | X | X | X | X | X |
| Underage Past Month Binge Alcohol Use (among Individuals Aged 12 to 20) | X | X | X | X | X | X |
| Perceptions of Great Risk from Having Five or More Drinks of an Alcoholic Beverage Once or Twice a Week | X | X | X | X | X | X |
| Tobacco Product Use in the Past Month | X | X | X | X | X | X |
| Cigarette Use in the Past Month | X | X | X | X | X | X |
| Perceptions of Great Risk from Smoking One or More Packs of Cigarettes per Day | X | X | X | X | X | X |
| Alcohol Dependence or Abuse in the Past Year ${ }^{2}$ | X | X | X | X | X | X |
| Alcohol Dependence in the Past Year ${ }^{2}$ | X | X | X | X | X | X |
| Illicit Drug Dependence or Abuse in the Past Year ${ }^{2}$ | X | X | X | X | X | X |
| Illicit Drug Dependence in the Past Year ${ }^{2}$ | X | X | X | X | X | X |
| Dependence or Abuse of Illicit Drugs or Alcohol in the Past Year ${ }^{2}$ | X | X | X | X | X | X |
| Needing But Not Receiving Treatment for Illicit Drug Use in the Past Year | X | X | X | X | X | X |
| Needing But Not Receiving Treatment for Alcohol Use in the Past Year | X | X | X | X | X | X |
| Serious Psychological Distress (SPD) in the Past Year ${ }^{3}$ | X | X | -- | -- | -- | -- |
| Had at Least One Major Depressive Episode (MDE) in the Past Year ${ }^{4}$ | -- | X | X | X | X | X |
| Serious Mental Illness (SMI) in the Past Year ${ }^{5}$ | -- | -- | -- | X | X | X |
| Any Mental Illness (AMI) in the Past Year ${ }^{5}$ | -- | -- | -- | X | X | X |
| Had Serious Thoughts of Suicide in the Past Year | -- | -- | -- | X | X | X |

$\mathrm{X}=$ available; $--=$ not available.
NOTE: The measures included in the 1999-2001 substate small area estimation (SAE) report are not included here. Because of the changes in the survey that took place in 2002, the 1999-2001 estimates are not comparable with the 2002-2004 or subsequent year estimates. Estimates using the combined 2002-2004, 2004-2006, and 2006-2008 data can be found at http://www.samhsa.gov/data/. Estimates using the combined 2008-2010, 2010-2012, and 2012-2014 data can also be found at http://www.samhsa.gov/data/.
${ }^{1}$ The marijuana incidence definition used here employs a simpler form of the at-risk population based on the model-based methodology. This model-based average annual incidence rate for first use of marijuana is defined as follows: Average annual marijuana initiation rate $(\%)=100 *\left\{\left[X_{1} \div\left(0.5 * X_{1}+\right.\right.\right.$ $\left.\left.\left.X_{2}\right)\right] \div 2\right\}$, where $X_{1}$ is the number of marijuana initiates in the past 24 months and $X_{2}$ is the number of individuals who never used marijuana (with the atrisk population defined as $0.5 * X_{1}+X_{2}$ ). Both $X_{1}$ and $X_{2}$ are based on binary measures that correspond to questions with a "yes" or "no" response option. For details on calculating the average annual rate of first use of marijuana from NSDUH data, see Section A. 8 in Appendix A of the 2009-2010 state estimates report (Hughes, Muhuri, Sathe, \& Spagnola, 2012).
${ }^{2}$ Dependence or abuse is based on definitions found in the 4th edition of the Diagnostic and Statistical Manual of Mental Disorders (DSM-IV). For more details on these measures, see Section B.4.2 in Appendix B of the 2012 NSDUH national findings report (Center for Behavioral Health Statistics and Quality [CBHSQ], 2013b).
${ }^{3}$ Because of questionnaire changes, SPD estimates in 2002-2004 are not comparable with the 2004-2006 SPD estimates. For details, see Section B. 7 of the report on Substate Estimates from the 2004-2006 National Surveys on Drug Use and Health (Office of Applied Studies [OAS], 2008). Additional questionnaire changes were made in 2008 that affected past year SPD trends. However, revised past year SPD measures were created for 2005 through 2007 that are comparable with the 2008 through 2014 past year SPD measure. Substate small area estimates for 2006-2008, 2008-2010, 2010-2012, and 2012-2014 were not created for this measure
${ }^{4}$ Questions used to determine MDE were added in 2004. The 2004-2006 MDE estimates are not comparable with the 2006-2008 and subsequent year estimates. For details on MDE, see Sections B.4.2 and B.4.4 in Appendix B of the 2012 NSDUH mental health findings report (CBHSQ, 2013a).
${ }^{5}$ The mental illness measures are based on a predictive model and are not direct measures of diagnostic status (i.e., a small subsample of the respondents received a clinical follow-up, and these responses along with questionnaire data were used to create predictive models for all of the respondents). For details about these measures and the predictive models, see Section B.4.3 in Appendix B of the 2012 NSDUH mental health findings report (CBHSQ, 2013a).
Source: SAMHSA, Center for Behavioral Health Statistics and Quality, National Surveys on Drug Use and Health, 2002-2014.

Table A2. NSDUH Substate Region Counts and Overlap, by State and Estimation Period

| State | 2002-2004 |  | 2010-2012 |  | 2012-2014 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number of <br> Substate <br> Regions ${ }^{1}$ | Number <br> of Map <br> Regions ${ }^{2}$ | Number of Substate Regions ${ }^{1}$ | Number <br> of Map <br> Regions ${ }^{2}$ | Number of Substate Regions ${ }^{1}$ | Number <br> of Map <br> Regions ${ }^{2}$ | Number of Substate Regions Overlapping with 2002$2004{ }^{3}$ | Number of Substate Regions Overlapping with 2010$2012{ }^{3}$ |
| Total U.S. | 357 | 340 | 384 | 363 | 384 | 362 | 264 | 356 |
| Alabama | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Alaska | 4 | 4 | 4 | 4 | 4 | 4 | 1 | 4 |
| Arizona | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Arkansas | 7 | 7 | 8 | 8 | 8 | 8 | 3 | 8 |
| California | 15 | 15 | 27 | 27 | 26 | 26 | 3 | 25 |
| Colorado | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Connecticut | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Delaware | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| District of Columbia | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Florida | 14 | 14 | 18 | 18 | 18 | 18 | 8 | 16 |
| Georgia | 5 | 5 | 6 | 6 | 6 | 6 | 0 | 6 |
| Hawaii | 3 | 3 | 4 | 4 | 4 | 4 | 2 | 4 |
| Idaho | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 5 |
| Illinois | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Indiana | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Iowa | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| Kansas | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| Kentucky | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| Louisiana | 7 | 7 | 6 | 6 | 6 | 6 | 5 | 6 |
| Maine | 7 | 7 | 8 | 8 | 8 | 8 | 3 | 8 |
| Maryland | 7 | 7 | 9 | 9 | 9 | 9 | 4 | 9 |
| Massachusetts | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| Michigan | 16 | 16 | 15 | 15 | 10 | 10 | 3 | 3 |
| Minnesota | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| Mississippi | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| Missouri | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| Montana | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Nebraska | 5 | 5 | 6 | 6 | 6 | 6 | 4 | 6 |
| Nevada | 3 | 3 | 4 | 4 | 4 | 4 | 2 | 4 |
| New Hampshire | 5 | 3 | 5 | 3 | 5 | 3 | 5 | 5 |
| New Jersey | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| New Mexico | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| New York | 15 | 4 | 15 | 4 | 15 | 4 | 15 | 15 |
| North Carolina | 4 | 4 | 12 | 11 | 14 | 14 | 0 | 10 |

See notes at end of table.
(continued)

Table A2. NSDUH Substate Region Counts and Overlap, by State and Estimation Period (continued)

| State | 2002-2004 |  | 2010-2012 |  | 2012-2014 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number of Substate Regions ${ }^{1}$ | Number of Map Regions ${ }^{2}$ | Number of Substate Regions ${ }^{1}$ | Number of Map Regions ${ }^{2}$ | Number of Substate Regions ${ }^{1}$ | Number of Map Regions ${ }^{2}$ | Number of Substate Regions Overlapping with 2002$2004{ }^{3}$ | Number of Substate Regions Overlapping with 2010$2012^{3}$ |
| North Dakota | 5 | 5 | 5 | 5 | 7 | 7 | 3 | 3 |
| Ohio | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 |
| Oklahoma | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| Oregon | 5 | 5 | 6 | 6 | 6 | 6 | 4 | 6 |
| Pennsylvania | 13 | 13 | 13 | 13 | 13 | 13 | 9 | 13 |
| Rhode Island | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| South Carolina | 4 | 4 | 4 | 4 | 4 | 4 | 2 | 2 |
| South Dakota | 7 | 7 | 5 | 5 | 5 | 5 | 0 | 5 |
| Tennessee | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 |
| Texas | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 15 |
| Utah | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| Vermont | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Virginia | 5 | 5 | 5 | 5 | 5 | 5 | 3 | 5 |
| Washington | 6 | 6 | 6 | 3 | 8 | 3 | 2 | 2 |
| West Virginia | 8 | 8 | 6 | 6 | 6 | 6 | 2 | 6 |
| Wisconsin | 6 | 6 | 6 | 6 | 6 | 6 | 4 | 6 |
| Wyoming | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |

${ }^{1}$ Number of regions only include the main substate regions and not the aggregate regions.
${ }^{2}$ More information on the map regions can be found in Section A.3.
${ }^{3}$ The names of some of the substate regions have changed across the time periods. However, as long as the two regions are made of the same counties or tracts, they are included in the count of overlapping regions.
Source: SAMHSA, Center for Behavioral Health Statistics and Quality, National Surveys on Drug Use and Health, 2002-2014.

# Section B: Substate Region Estimation Methodology 

The survey-weighted hierarchical Bayes (SWHB) methodology used in the production of state estimates from the 1999 to 2014 National Surveys on Drug Use and Health (NSDUHs) also was used in the production of the 2012-2014 substate estimates. The SWHB methodology is described by Folsom, Shah, and Vaish (1999). A general model description is given in Section B.1. A brief discussion of the precision of the estimates and interpretation of the Bayesian confidence intervals (CIs) is given in Section B.2. The goals of the small area estimation (SAE) modeling, the general model description, and the implementation of SAE modeling remain the same and are described in Appendix E of the 2001 state report (Wright, 2003).

Small area estimates obtained using the SWHB methodology are design consistent (i.e., for states or substate areas with large sample sizes, the small area estimates are close to the corresponding robust design-based estimates). The substate small area estimates when aggregated by using the appropriate population totals result in national small area estimates that are very close to the national design-based estimates. However, for many reasons, including internal consistency, it is desirable to have the national small area estimates exactly match the national design-based estimates. Beginning in 2002, exact benchmarking was introduced (see Appendix A, Section A.4, in Wright \& Sathe, 2005). The 2012-2014 substate small area estimates have been benchmarked to the national design-based estimates.

## B.1. General SAE Model Description

The model described here to produce the 2012-2014 substate small area estimates is the same logistic mixed ${ }^{5}$ hierarchical Bayes (HB) model that was used to produce the 2010-2012 substate small area estimates (see "2010-2012 National Survey on Drug Use and Health: Overview and Summary of Substate Region Estimation Methodology" at http://www.samhsa.gov/data/). The following model was used:

[^3]$$
\log \left[\pi_{a i j k} /\left(1-\pi_{a i j k}\right)\right]=x_{a i j k}^{\prime} \beta_{a}+\eta_{a i}+v_{a i j}
$$
where $\pi_{\text {aijk }}$ is the probability of engaging in the behavior of interest (e.g., using marijuana in the past month, or cocaine use in past year) for person- $k$ belonging to age group- $a$ in substate region- $j$ of state- $i$.

Let $x_{\text {aijk }}$ denote a $p_{a} \times 1$ vector of the auxiliary (predictor) variables associated with age group- $a$ ( 12 to 17,18 to 25,26 to 34 , and 35 or older) and $\beta_{a}$ denote the associated vector of the regression parameters. The age group-specific vectors of the auxiliary variables are defined for every block group in the nation and also include person-level demographic variables, such as race/ethnicity and gender. The auxiliary variables include block group, census tract, county, and state-level data. These predictor variables include demographic and socioeconomic data from the American Community Survey (ACS), population projections obtained from Nielsen Claritas, food stamp participation rates from the U.S. Census Bureau, Uniform Crime Report (UCR) arrest totals from the Federal Bureau of Investigation (FBI), per capita income from the Bureau of Economic Analysis (BEA), unemployment rates from the Bureau of Labor Statistics (BLS), mortality rates from the National Center for Health Statistics (NCHS), treatment rates from the National Survey of Substance Abuse Treatment Services (N-SSATS), and Block Grant awards, cost of services, and total taxable resources from the Substance Abuse and Mental Health Services Administration (SAMHSA). For a complete list of predictors, refer to Section B of the "2013-2014 NSDUH Guide to State Tables and Summary of Small Area Estimation Methodology" at http://www.samhsa.gov/data/.

The vectors $\eta_{i}=\left(\eta_{1 i}, \cdots, \eta_{A i}\right)^{\prime}$ and $v_{i j}=\left(v_{1 i j}, \cdots, v_{A i j}\right)^{\prime}$, defined as state- and substatelevel random effects, respectively, are assumed to be mutually independent with $\eta_{i} \sim N_{A}\left(0, D_{\eta}\right)$ and $v_{i j} \sim N_{A}\left(0, D_{V}\right)$, where $A$ is the total number of individual age groups modeled (generally, $A=4)$. For HB estimation purposes, an improper uniform prior distribution ${ }^{6}$ is assumed for $\beta_{a}$, and proper Wishart prior distributions are assumed for $D_{\eta}^{-1}$ and $D_{V}{ }^{-1}$. The HB solution for $\pi_{\text {aijk }}$ involves a series of complex Markov Chain Monte Carlo (MCMC) steps to generate values of the desired fixed and random effects from the underlying joint distribution. The basic process is described in Folsom et al. (1999), Shah, Barnwell, Folsom, and Vaish (2000), and Wright (2003). Once the required number of MCMC samples for the parameters of interest are generated and tested for convergence properties (see Raftery \& Lewis, 1992), the small area estimates for each age group $\times$ race/ethnicity $\times$ gender cell within a block group can be obtained. These block group-level small area estimates then can be aggregated using the appropriate

[^4]population projections to form substate- and state-level small area estimates for the desired age group(s). These small area estimates then are benchmarked to the national design-based estimates (for details on exact benchmarking, see Section B. 6 of the "2011-2012 NSDUH Guide to State Tables and Summary of Small Area Estimation Methodology" at http://www.samhsa.gov/data/).

Because the objective here was to produce small area estimates for substate regions, it was decided to ratio adjust the person-level sampling weights to match population projections available from Claritas at the substate $\times$ age group $\times$ gender level. These adjusted sampling weights are used in the estimation because they reflect the demography of the substate regions better than the unadjusted weights. This ratio adjustment was done at the substate region ( 384 regions) $\times$ age group ( 12 to 17,18 to 25,26 to 34 , and 35 or older) $\times$ gender (male and female) level collectively over 3 years (2012, 2013, and 2014) of data.

The SAE methodology used here tends to borrow strength from both the national model and the state-level random effects. Estimates for substate regions with smaller sample sizes tend to be shrunk more toward the corresponding state and national prevalence estimates than substate regions with larger sample sizes. This methodology tends to cluster the small sample substate estimates around their state prevalence estimates. Thus, relatively high estimates for substate regions with small sample sizes tend to shrink toward the state prevalence estimates, while relatively low estimates tend to increase toward the state prevalence estimates. On the other hand, for substate regions with large sample sizes, the methodology produces estimates that are close to the weighted average of the sample data in that substate region. In addition, these estimates are design consistent so that, as the sample size for a substate region increases, the estimate approaches the corresponding design-based estimate.

## B.2. Precision, Comparison, and Validation of the Estimates

The primary purpose of producing substate estimates is to give policy officials and data users a better perspective on the range of prevalence estimates within and across states. Because the data were collected in a consistent manner by field interviewers who adhered to the same procedures and administered the same questions across all states and substate regions, the results are comparable within and across the 50 states and the District of Columbia.

The 95 percent Bayesian CI associated with each estimate provides a measure of the accuracy of the estimate. It defines the range within which the true value can be expected to fall 95 percent of the time. For example, the estimated prevalence of past month use of marijuana in Region 1 in Alabama is 4.7 percent, and the 95 percent CI ranges from 3.5 to 6.3 percent. ${ }^{7}$ Therefore, the probability is 0.95 that the true value is within that range. The CI indicates the uncertainty due to both sampling variability and model bias. The key assumption underlying the validity of the CIs is that the state- and substate-level error (or bias correction) terms in the models behave like random effects with zero means and common variance components.

[^5]When comparing prevalence rates for two substate regions, it is tempting and often convenient to look at their 95 percent Bayesian CIs to decide whether the difference in the two substate regions' prevalence rates is significant. If the two Bayesian CIs overlap, one would conclude that the difference is not statistically significant. If the two Bayesian CIs do not overlap, it implies that the two substate regions prevalence rates are significantly different from each other. However, as discussed in Schenker and Gentleman (2001), the method of overlapping Bayesian CIs is more conservative (i.e., it rejects the null hypothesis of no difference less often) than the standard method based on $z$ statistics when the null hypothesis is true. For details on the $z$ statistics method to test the differences between the estimates of two substate regions, refer to Section B. 12 (which describes the test for two state estimates) of the "2011-2012 NSDUH Guide to State Tables and Summary of Small Area Estimation Methodology" at http://www.samhsa.gov/data/. The same test can be extended to test the differences between two substate regions' prevalence rates. Note that the referenced test assumes zero correlation between the two estimates. Two substate regions in one state (or across states) are likely correlated, but the test can still be used knowing that the resulting test will be more conservative than if the correlation was accounted for. This is still a better alternative than using the overlapping CI test. Even if Bayesian CIs for two substate regions overlap, the two prevalence rates may be declared significantly different by the test based on $z$ statistics. Hence, the method of overlapping Bayesian CIs is not recommended to test the equivalence of two substate prevalence rates. A detailed description of the method of overlapping CIs and its comparison with the standard methods for testing of a hypothesis is given in Schenker and Gentleman (2001) and Payton, Greenstone, and Schenker (2003).

A comparison of the standard errors (SEs) among substate regions with small ( $n \leq 500$ ), medium ( $500<n \leq 1,000$ ), and large ( $n>1,000$ ) sample sizes for certain measures shows that the small area estimates behave in predictable ways. Regardless of whether the substate region is from a state with a larger annual sample size or one of the other states, the sizes of the CIs are very similar and are primarily a function of the sample size of the substate region and the prevalence estimate of the measure. Substate regions with large sample sizes had the smallest SEs. For past month use of alcohol, where the national prevalence for all individuals aged 12 or older was 52.3 percent (for 2012-2014), the average relative standard error (RSE) ${ }^{8}$ was about 5.1 percent, and the RSE for substate regions with a large sample size was about 3.2 percent. For substate regions with a medium sample size, the average RSE was 4.3 percent; for small sample sizes, the average RSE was 5.7 percent. For past month use of marijuana (with a national prevalence of 7.7 percent), the average RSE was 9.6 percent for substate regions with large samples. For medium sample sizes, the average RSE was 12.6 percent, and for small samples, the RSE was 15.2 percent, whereas the overall national average RSE was 13.9 percent. Substance use measures with lower prevalence rates, such as past year use of cocaine (1.7 percent nationally), displayed larger average RSEs. For substate regions with large sample sizes, the average RSE was 19.3 percent. For those with medium sample sizes, the average RSE was 23.0 percent, and for those with small sample sizes, the average RSE was 26.0 percent. The overall national RSE for past year use of cocaine was 24.5 percent.

[^6]
## Section C: Sample Sizes, Response Rates, and Population Estimates

Table C1. Sample Sizes, Weighted Screening and Interview Response Rates, and Population Estimates, by Substate Region, for Individuals Aged 12 or Older: 2012, 2013, and 2014 NSDUHs

| State/Substate Region | Total <br> Selected DUs | Total Eligible DUs | Total Completed Screeners | $\begin{array}{\|c\|} \hline \text { Weighted DU } \\ \text { Screening } \\ \text { Response } \\ \text { Rate } \\ \text { (Percentage) } \\ \hline \end{array}$ | Total Selected | Total <br> Responded | Population Estimate | Weighted <br> Interview <br> Response <br> Rate <br> (Percentage) | Weighted <br> Overall <br> Response <br> Rate <br> (Percentage) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total United States | 626,362 | 523,186 | 441,803 | 83.96\% | 268,038 | 204,048 | 262,720,104 | 71.97\% | 60.43\% |
| Northeast | 139,742 | 118,083 | 94,399 | 78.34\% | 54,810 | 40,433 | 47,408,955 | 68.62\% | 53.76\% |
| Midwest | 162,920 | 136,982 | 117,579 | 85.62\% | 70,864 | 53,789 | 56,241,587 | 72.32\% | 61.92\% |
| South | 197,620 | 162,556 | 139,570 | 86.12\% | 83,229 | 64,449 | 97,650,147 | 73.32\% | 63.14\% |
| West | 126,080 | 105,565 | 90,255 | 83.26\% | 59,135 | 45,377 | 61,419,415 | 72.10\% | 60.03\% |
| Alabama | 8,762 | 6,977 | 6,012 | 85.73\% | 3,573 | 2,765 | 4,046,816 | 71.86\% | 61.61\% |
| Region 1 | 2,332 | 1,869 | 1,578 | 83.63\% | 856 | 634 | 1,140,380 | 68.91\% | 57.63\% |
| Region 2 | 2,649 | 2,149 | 1,790 | 82.80\% | 1,113 | 833 | 1,294,847 | 69.88\% | 57.87\% |
| Region 3 | 2,041 | 1,578 | 1,433 | 90.82\% | 874 | 716 | 719,075 | 76.62\% | 69.58\% |
| Region 4 | 1,740 | 1,381 | 1,211 | 87.53\% | 730 | 582 | 892,515 | 73.59\% | 64.41\% |
| Alaska | 8,586 | 6,562 | 5,636 | 85.94\% | 3,584 | 2,639 | 581,260 | 72.00\% | 61.87\% |
| Anchorage | 3,220 | 2,793 | 2,392 | 85.72\% | 1,515 | 1,112 | 239,664 | 72.27\% | 61.95\% |
| Northern | 1,837 | 1,279 | 1,101 | 86.14\% | 775 | 563 | 128,698 | 69.11\% | 59.53\% |
| South Central | 2,627 | 1,812 | 1,520 | 84.10\% | 934 | 678 | 152,325 | 70.82\% | 59.56\% |
| Southeast | 902 | 678 | 623 | 91.56\% | 360 | 286 | 60,572 | 79.85\% | 73.11\% |
| Arizona | 8,298 | 6,379 | 5,578 | 87.44\% | 3,578 | 2,775 | 5,450,630 | 73.81\% | 64.54\% |
| Maricopa | 4,626 | 3,867 | 3,407 | 88.11\% | 2,245 | 1,708 | 3,244,780 | 71.15\% | 62.69\% |
| Pima | 1,358 | 1,017 | 866 | 85.94\% | 531 | 422 | 844,533 | 80.72\% | 69.37\% |
| Rural North | 1,065 | 750 | 655 | 86.56\% | 343 | 255 | 621,580 | 70.50\% | 61.02\% |
| Rural South | 1,249 | 745 | 650 | 86.83\% | 459 | 390 | 739,737 | 80.64\% | 70.03\% |
| Arkansas | 8,171 | 6,684 | 6,020 | 89.88\% | 3,667 | 2,785 | 2,436,479 | 71.92\% | 64.64\% |
| Catchment Area 1 | 1,234 | 1,062 | 931 | 87.52\% | 665 | 495 | 394,933 | 70.19\% | 61.43\% |
| Catchment Area 2 | 1,047 | 786 | 701 | 89.50\% | 381 | 292 | 296,809 | 76.56\% | 68.52\% |
| Catchment Area 3 | 1,072 | 902 | 834 | 92.17\% | 513 | 398 | 325,708 | 72.47\% | 66.80\% |
| Catchment Area 4 | 785 | 654 | 585 | 89.38\% | 367 | 279 | 215,114 | 69.78\% | 62.37\% |
| Catchment Area 5 | 1,140 | 891 | 806 | 90.23\% | 533 | 393 | 363,227 | 70.04\% | 63.20\% |
| Catchment Area 6 | 680 | 548 | 517 | 94.30\% | 284 | 243 | 174,036 | 85.38\% | 80.51\% |
| Catchment Area 7 | 682 | 579 | 552 | 95.21\% | 316 | 249 | 189,808 | 75.38\% | 71.77\% |
| Catchment Area 8 | 1,531 | 1,262 | 1,094 | 86.41\% | 608 | 436 | 476,844 | 64.66\% | 55.87\% |

See notes at end of table.

Table C1. Sample Sizes, Weighted Screening and Interview Response Rates, and Population Estimates, by Substate Region, for Individuals Aged 12 or Older: 2012, 2013, and 2014 (continued)

| State/Substate Region | Total <br> Selected DUs | Total Eligible DUs | Total <br> Completed Screeners | Weighted DU <br> Screening <br> Response <br> Rate <br> (Percentage) | Total Selected | Total Responded | Population Estimate | Weighted Interview Response Rate (Percentage) | Weighted Overall Response Rate (Percentage) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| California | 29,722 | 26,482 | 21,146 | 79.61\% | 16,046 | 12,001 | 31,788,545 | 70.15\% | 55.85\% |
| Region 1R | 785 | 659 | 574 | 87.15\% | 387 | 304 | 813,670 | 75.19\% | 65.53\% |
| Region 2R | 1,101 | 753 | 634 | 83.94\% | 432 | 334 | 860,841 | 72.71\% | 61.03\% |
| Region 3R (Sacramento) | 1,067 | 979 | 800 | 81.88\% | 528 | 421 | 1,202,211 | 78.44\% | 64.23\% |
| Region 4R | 1,461 | 1,297 | 1,097 | 84.62\% | 690 | 536 | 1,108,749 | 78.65\% | 66.55\% |
| Region 5R (San Francisco) | 731 | 636 | 420 | 65.81\% | 293 | 197 | 746,157 | 57.61\% | 37.91\% |
| Region 6 (Santa Clara) | 1,314 | 1,243 | 984 | 79.34\% | 678 | 503 | 1,533,142 | 67.17\% | 53.29\% |
| Region 7R (Contra Costa) | 840 | 777 | 648 | 83.29\% | 453 | 341 | 906,155 | 72.27\% | 60.20\% |
| Region 8R (Alameda) | 1,326 | 1,194 | 958 | 80.38\% | 656 | 489 | 1,309,079 | 70.28\% | 56.49\% |
| Region 9R (San Mateo) | 665 | 612 | 506 | 82.64\% | 315 | 230 | 622,271 | 63.95\% | 52.85\% |
| Region 10 | 908 | 822 | 693 | 84.33\% | 569 | 400 | 1,061,304 | 63.80\% | 53.81\% |
| Region 11 (Los Angeles) | 7,544 | 6,956 | 5,507 | 79.27\% | 4,410 | 3,188 | 8,347,839 | 67.45\% | 53.47\% |
| LA SPA 1 and 5 | 779 | 717 | 546 | 76.40\% | 375 | 271 | 895,830 | 68.25\% | 52.14\% |
| LA SPA 2 | 1,767 | 1,643 | 1,211 | 73.77\% | 955 | 680 | 1,834,499 | 65.93\% | 48.64\% |
| LA SPA 3 | 1,198 | 1,119 | 889 | 79.95\% | 756 | 523 | 1,490,785 | 66.40\% | 53.09\% |
| LA SPA 4 | 1,008 | 892 | 670 | 74.88\% | 471 | 326 | 977,073 | 65.62\% | 49.14\% |
| LA SPA 6 | 612 | 545 | 478 | 88.12\% | 431 | 324 | 800,750 | 67.75\% | 59.70\% |
| LA SPA 7 | 879 | 837 | 723 | 86.30\% | 692 | 522 | 1,063,490 | 69.09\% | 59.62\% |
| LA SPA 8 | 1,301 | 1,203 | 990 | 82.07\% | 730 | 542 | 1,285,413 | 69.68\% | 57.19\% |
| Region 12R | 467 | 411 | 341 | 83.07\% | 258 | 194 | 702,429 | 68.88\% | 57.21\% |
| Regions 13 and 19R | 1,746 | 1,417 | 1,115 | 74.88\% | 1,019 | 796 | 2,006,173 | 74.09\% | 55.48\% |
| Region 14 (Orange) | 2,395 | 2,201 | 1,638 | 73.62\% | 1,289 | 931 | 2,609,808 | 66.61\% | 49.04\% |
| Region 15R (Fresno) | 634 | 587 | 476 | 81.13\% | 417 | 328 | 763,896 | 77.00\% | 62.47\% |
| Region 16R (San Diego) | 2,594 | 2,313 | 1,753 | 75.92\% | 1,237 | 936 | 2,682,797 | 70.80\% | 53.75\% |
| Region 17R | 1,185 | 1,077 | 883 | 81.84\% | 750 | 583 | 1,182,387 | 75.38\% | 61.69\% |
| Region 18R (San Bernardino) | 1,353 | 1,177 | 971 | 82.79\% | 877 | 686 | 1,694,198 | 75.16\% | 62.23\% |
| Region 20R | 786 | 708 | 601 | 85.05\% | 459 | 362 | 773,194 | 69.58\% | 59.18\% |
| Region 21R | 820 | 663 | 547 | 82.26\% | 329 | 242 | 862,248 | 67.52\% | 55.54\% |

See notes at end of table.

[^7]Table C1. Sample Sizes, Weighted Screening and Interview Response Rates, and Population Estimates, by Substate Region, for Individuals Aged 12 or Older: 2012, 2013, and 2014 (continued)

| State/Substate Region | Total <br> Selected DUs | Total Eligible DUs | Total <br> Completed <br> Screeners | Weighted DU <br> Screening <br> Response <br> Rate <br> (Percentage) | Total Selected | Total Responded | Population Estimate | Weighted <br> Interview <br> Response <br> Rate <br> (Percentage) | Weighted Overall Response Rate (Percentage) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Colorado | 8,468 | 7,269 | 6,060 | 83.34\% | 3,718 | 2,820 | 4,358,205 | 73.03\% | 60.86\% |
| Region 1 | 943 | 815 | 680 | 83.04\% | 433 | 322 | 575,705 | 75.63\% | 62.81\% |
| Regions 2 and 7 | 4,454 | 4,002 | 3,221 | 80.57\% | 2,046 | 1,556 | 2,441,220 | 73.05\% | 58.86\% |
| Region 3 | 1,438 | 1,205 | 1,026 | 84.20\% | 626 | 489 | 644,112 | 72.41\% | 60.97\% |
| Region 4 | 671 | 475 | 440 | 93.15\% | 231 | 187 | 232,934 | 77.59\% | 72.27\% |
| Regions 5 and 6 | 962 | 772 | 693 | 89.52\% | 382 | 266 | 464,234 | 68.02\% | 60.90\% |
| Connecticut | 8,634 | 7,710 | 6,398 | 82.78\% | 3,897 | 2,837 | 3,044,939 | 69.23\% | 57.30\% |
| Eastern | 1,227 | 1,046 | 896 | 85.48\% | 543 | 423 | 372,631 | 74.22\% | 63.44\% |
| North Central | 2,475 | 2,264 | 1,881 | 82.87\% | 1,098 | 795 | 852,501 | 68.21\% | 56.52\% |
| Northwestern | 1,427 | 1,257 | 1,049 | 83.33\% | 680 | 489 | 526,119 | 66.62\% | 55.52\% |
| South Central | 2,053 | 1,856 | 1,578 | 84.96\% | 908 | 667 | 713,456 | 72.93\% | 61.96\% |
| Southwest | 1,452 | 1,287 | 994 | 76.75\% | 668 | 463 | 580,232 | 64.91\% | 49.81\% |
| Delaware | 8,661 | 7,178 | 5,936 | 82.68\% | 3,487 | 2,706 | 777,549 | 75.35\% | 62.30\% |
| Kent | 1,541 | 1,353 | 1,145 | 84.34\% | 724 | 561 | 139,696 | 73.87\% | 62.30\% |
| New Castle (excluding Wilmington City) | 4,205 | 3,805 | 3,108 | 81.62\% | 1,853 | 1,423 | 400,243 | 75.14\% | 61.33\% |
| Sussex | 2,392 | 1,586 | 1,313 | 82.96\% | 692 | 539 | 174,945 | 74.07\% | 61.45\% |
| Wilmington City | 523 | 434 | 370 | 85.64\% | 218 | 183 | 62,665 | 87.56\% | 74.98\% |
| District of Columbia | 14,851 | 12,364 | 9,829 | 78.97\% | 3,486 | 2,804 | 554,678 | 76.32\% | 60.27\% |
| Ward 1 | 1,863 | 1,624 | 1,326 | 82.09\% | 436 | 343 | 69,539 | 70.83\% | 58.15\% |
| Ward 2 | 1,676 | 1,257 | 893 | 69.90\% | 306 | 242 | 73,677 | 80.00\% | 55.92\% |
| Ward 3 | 2,056 | 1,642 | 1,334 | 80.33\% | 448 | 352 | 72,326 | 78.50\% | 63.05\% |
| Ward 4 | 1,871 | 1,641 | 1,286 | 78.48\% | 460 | 352 | 68,750 | 69.80\% | 54.78\% |
| Ward 5 | 2,130 | 1,812 | 1,425 | 77.39\% | 522 | 414 | 69,786 | 75.01\% | 58.06\% |
| Ward 6 | 2,180 | 1,853 | 1,530 | 82.42\% | 439 | 349 | 73,115 | 74.97\% | 61.79\% |
| Ward 7 | 1,200 | 1,018 | 810 | 78.90\% | 316 | 279 | 64,161 | 87.09\% | 68.72\% |
| Ward 8 | 1,875 | 1,517 | 1,225 | 80.99\% | 559 | 473 | 63,324 | 80.38\% | 65.10\% |

See notes at end of table.

Table C1. Sample Sizes, Weighted Screening and Interview Response Rates, and Population Estimates, by Substate Region, for Individuals Aged 12 or Older: 2012, 2013, and 2014 (continued)

| State/Substate Region | Total <br> Selected DUs | Total Eligible DUs | Total <br> Completed <br> Screeners | Weighted DU <br> Screening <br> Response Rate $\qquad$ | Total Selected | Total <br> Responded | Population Estimate | Weighted Interview Response Rate (Percentage) | Weighted Overall Response Rate (Percentage) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Florida | 37,211 | 29,333 | 24,515 | 82.79\% | 13,756 | 10,524 | 16,632,820 | 70.85\% | 58.66\% |
| Broward (Circuit 17) | 2,988 | 2,420 | 1,962 | 80.56\% | 1,123 | 872 | 1,536,230 | 73.94\% | 59.56\% |
| Central I | 4,368 | 3,768 | 3,302 | 87.19\% | 2,080 | 1,579 | 2,090,644 | 69.63\% | 60.71\% |
| Circuit 9 | 2,492 | 2,164 | 1,927 | 88.76\% | 1,323 | 1,046 | 1,238,291 | 74.56\% | 66.18\% |
| Circuit 18 | 1,876 | 1,604 | 1,375 | 85.35\% | 757 | 533 | 852,353 | 63.27\% | 54.00\% |
| Central II | 11,058 | 8,108 | 6,720 | 82.25\% | 3,504 | 2,674 | 4,657,305 | 70.97\% | 58.37\% |
| Circuit 6 | 2,823 | 2,163 | 1,744 | 79.37\% | 883 | 657 | 1,229,871 | 68.82\% | 54.62\% |
| Circuit 10 | 1,230 | 1,020 | 889 | 87.26\% | 530 | 419 | 630,086 | 76.04\% | 66.35\% |
| Circuit 12 | 1,969 | 1,431 | 1,209 | 84.45\% | 500 | 360 | 668,199 | 68.97\% | 58.24\% |
| Circuit 13 (Hillsborough) | 2,356 | 1,973 | 1,594 | 80.68\% | 964 | 762 | 1,085,807 | 73.95\% | 59.66\% |
| Circuit 20 | 2,680 | 1,521 | 1,284 | 82.77\% | 627 | 476 | 1,043,341 | 68.77\% | 56.93\% |
| Northeast | 7,078 | 5,718 | 5,019 | 87.65\% | 2,599 | 1,956 | 3,121,138 | 69.54\% | 60.95\% |
| Circuit 4 | 1,989 | 1,682 | 1,408 | 83.16\% | 768 | 579 | 963,449 | 70.58\% | 58.69\% |
| Circuit 5 | 2,072 | 1,601 | 1,420 | 88.43\% | 682 | 528 | 934,745 | 71.43\% | 63.16\% |
| Circuit 7 | 1,894 | 1,558 | 1,386 | 89.07\% | 672 | 490 | 762,973 | 64.19\% | 57.17\% |
| Circuit 8 plus Columbia, Dixie, Hamilton, Lafayette, and Suwannee | 1,123 | 877 | 805 | 92.03\% | 477 | 359 | 459,971 | 74.26\% | 68.34\% |
| Northwest | 3,003 | 2,357 | 1,797 | 76.28\% | 994 | 778 | 1,234,666 | 74.17\% | 56.58\% |
| Circuit 1 | 1,319 | 1,147 | 746 | 66.54\% | 432 | 318 | 601,463 | 66.92\% | 44.53\% |
| Circuit 2 plus Madison and Taylor | 937 | 753 | 658 | 88.21\% | 379 | 317 | 377,593 | 81.17\% | 71.60\% |
| Circuit 14 | 747 | 457 | 393 | 80.57\% | 183 | 143 | 255,610 | 75.39\% | 60.74\% |
| South (Circuits 11 and 16) | 4,425 | 3,725 | 3,045 | 78.64\% | 1,962 | 1,554 | 2,285,489 | 74.04\% | 58.23\% |
| Southeast | 4,291 | 3,237 | 2,670 | 81.72\% | 1,494 | 1,111 | 1,707,347 | 66.67\% | 54.48\% |
| Circuit 15 (Palm Beach) | 3,046 | 2,259 | 1,809 | 79.21\% | 1,080 | 789 | 1,172,607 | 64.67\% | 51.23\% |
| Circuit 19 | 1,245 | 978 | 861 | 88.06\% | 414 | 322 | 534,740 | 72.15\% | 63.54\% |
| Georgia | 8,718 | 7,349 | 6,199 | 84.56\% | 4,266 | 3,286 | 8,151,672 | 73.51\% | 62.16\% |
| Region 1 | 2,041 | 1,759 | 1,500 | 85.14\% | 1,013 | 755 | 2,100,001 | 73.11\% | 62.25\% |
| Region 2 | 1,364 | 1,130 | 980 | 87.15\% | 636 | 494 | 1,052,144 | 74.39\% | 64.83\% |
| Region 3 | 2,569 | 2,237 | 1,840 | 82.76\% | 1,377 | 1,039 | 2,431,810 | 71.52\% | 59.19\% |
| Region 4 | 725 | 592 | 496 | 83.46\% | 314 | 254 | 505,270 | 74.40\% | 62.09\% |
| Region 5 | 879 | 674 | 556 | 82.76\% | 367 | 296 | 923,299 | 74.83\% | 61.93\% |
| Region 6 | 1,140 | 957 | 827 | 86.66\% | 559 | 448 | 1,139,148 | 76.75\% | 66.51\% |

See notes at end of table.

Table C1. Sample Sizes, Weighted Screening and Interview Response Rates, and Population Estimates, by Substate Region, for Individuals Aged 12 or Older: 2012, 2013, and 2014 (continued)

|  | State/Substate Region | Total <br> Selected DUs | $\begin{gathered} \text { Total Eligible } \\ \text { DUs } \end{gathered}$ | Total <br> Completed Screeners | Weighted DU Screening Response Rate (Percentage) | Total Selected | Total <br> Responded | Population Estimate | Weighted Interview Response Rate (Percentage) | Weighted Overall Response Rate (Percentage) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Hawaii | 9,448 | 8,091 | 6,408 | 78.67\% | 3,864 | 2,830 | 1,145,942 | 69.09\% | 54.35\% |
|  | Hawaii Island | 1,544 | 1,252 | 981 | 78.19\% | 488 | 366 | 154,193 | 70.27\% | 54.95\% |
|  | Honolulu | 6,222 | 5,470 | 4,257 | 77.21\% | 2,584 | 1,864 | 806,141 | 67.94\% | 52.46\% |
|  | Kauai | 677 | 525 | 473 | 90.11\% | 296 | 231 | 56,012 | 76.88\% | 69.28\% |
|  | Maui | 1,005 | 844 | 697 | 82.93\% | 496 | 369 | 129,596 | 70.21\% | 58.22\% |
|  | Idaho | 6,620 | 5,649 | 5,161 | 91.10\% | 3,566 | 2,815 | 1,310,838 | 76.44\% | 69.64\% |
|  | Region 1 | 987 | 831 | 742 | 88.71\% | 438 | 333 | 184,241 | 76.63\% | 67.97\% |
|  | Region 2 | 466 | 389 | 362 | 92.52\% | 221 | 166 | 92,647 | 71.29\% | 65.96\% |
|  | Region 3 | 1,051 | 912 | 842 | 92.06\% | 620 | 486 | 207,040 | 71.83\% | 66.13\% |
|  | Region 4 | 1,728 | 1,586 | 1,401 | 88.37\% | 940 | 753 | 374,859 | 76.51\% | 67.61\% |
|  | Region 5 | 891 | 749 | 693 | 92.01\% | 491 | 385 | 151,475 | 77.37\% | 71.18\% |
| $\bigcirc$ | Region 6 | 455 | 390 | 366 | 93.64\% | 271 | 210 | 98,121 | 78.77\% | 73.75\% |
| $亡$ | Region 7 | 1,042 | 792 | 755 | 95.22\% | 585 | 482 | 202,455 | 81.08\% | 77.21\% |
|  | Illinois | 30,056 | 26,209 | 19,997 | 76.05\% | 13,294 | 9,572 | 10,710,970 | 68.05\% | 51.75\% |
|  | Region I (Cook) | 12,222 | 10,706 | 7,185 | 67.12\% | 4,935 | 3,480 | 4,357,973 | 67.49\% | 45.29\% |
|  | Region II | 8,626 | 7,815 | 6,321 | 80.05\% | 4,541 | 3,266 | 3,378,920 | 67.75\% | 54.24\% |
|  | Region III | 3,602 | 3,055 | 2,558 | 83.97\% | 1,612 | 1,199 | 1,212,886 | 69.93\% | 58.72\% |
|  | Region IV | 2,660 | 2,231 | 1,898 | 85.35\% | 1,034 | 742 | 757,300 | 68.73\% | 58.67\% |
|  | Region V | 2,946 | 2,402 | 2,035 | 83.96\% | 1,172 | 885 | 1,003,891 | 68.63\% | 57.62\% |
|  | Indiana | 7,987 | 6,701 | 5,885 | 87.79\% | 3,630 | 2,772 | 5,432,794 | 72.26\% | 63.44\% |
|  | Central | 1,882 | 1,627 | 1,377 | 84.36\% | 854 | 621 | 1,429,110 | 67.43\% | 56.88\% |
|  | East | 793 | 683 | 622 | 91.03\% | 373 | 273 | 459,906 | 71.27\% | 64.88\% |
|  | North Central | 1,316 | 1,070 | 956 | 89.32\% | 607 | 483 | 767,055 | 78.67\% | 70.27\% |
|  | Northeast | 727 | 612 | 533 | 86.69\% | 340 | 262 | 535,186 | 74.18\% | 64.30\% |
|  | Northwest | 917 | 799 | 686 | 85.81\% | 442 | 342 | 618,458 | 73.37\% | 62.96\% |
|  | Southeast | 843 | 717 | 645 | 90.17\% | 364 | 282 | 584,474 | 69.24\% | 62.44\% |
|  | Southwest | 624 | 542 | 490 | 90.86\% | 283 | 219 | 426,617 | 70.88\% | 64.40\% |
|  | West | 885 | 651 | 576 | 88.63\% | 367 | 290 | 611,988 | 74.71\% | 66.22\% |

See notes at end of table.
(continued)

Table C1. Sample Sizes, Weighted Screening and Interview Response Rates, and Population Estimates, by Substate Region, for Individuals Aged 12 or Older: 2012, 2013, and 2014 (continued)

| State/Substate Region | Total <br> Selected DUs | Total Eligible DUs | Total Completed Screeners | Weighted DU Screening Response Rate (Percentage) | Total Selected | Total Responded | Population Estimate | Weighted Interview Response Rate (Percentage) | Weighted Overall Response Rate (Percentage) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Iowa | 7,725 | 6,618 | 5,993 | 90.47\% | 3,541 | 2,712 | 2,573,570 | 72.51\% | 65.60\% |
| Central | 1,412 | 1,231 | 1,086 | 88.70\% | 666 | 489 | 463,423 | 69.62\% | 61.75\% |
| North Central | 911 | 743 | 676 | 90.81\% | 380 | 299 | 286,618 | 76.42\% | 69.40\% |
| Northeast | 1,825 | 1,620 | 1,476 | 90.96\% | 855 | 654 | 626,017 | 72.66\% | 66.09\% |
| Northwest | 1,061 | 903 | 833 | 92.20\% | 473 | 378 | 393,835 | 73.92\% | 68.16\% |
| Southeast | 1,590 | 1,365 | 1,228 | 89.82\% | 746 | 571 | 545,834 | 70.29\% | 63.14\% |
| Southwest | 926 | 756 | 694 | 91.47\% | 421 | 321 | 257,843 | 75.86\% | 69.39\% |
| Kansas | 7,510 | 6,379 | 5,626 | 88.04\% | 3,570 | 2,781 | 2,349,071 | 74.93\% | 65.97\% |
| Kansas City Metro | 2,320 | 2,074 | 1,808 | 87.05\% | 1,223 | 938 | 790,271 | 75.19\% | 65.46\% |
| Northeast | 1,379 | 1,198 | 972 | 80.66\% | 628 | 491 | 452,635 | 72.60\% | 58.56\% |
| South Central | 1,043 | 873 | 811 | 92.78\% | 523 | 417 | 291,751 | 78.84\% | 73.14\% |
| Southeast | 670 | 445 | 407 | 91.13\% | 222 | 173 | 156,861 | 70.58\% | 64.32\% |
| West | 861 | 714 | 649 | 90.90\% | 345 | 259 | 255,068 | 69.56\% | 63.23\% |
| Wichita (Sedgwick) | 1,237 | 1,075 | 979 | 91.16\% | 629 | 503 | 402,484 | 78.30\% | 71.37\% |
| Kentucky | 8,493 | 7,043 | 6,370 | 90.30\% | 3,628 | 2,777 | 3,634,802 | 72.08\% | 65.08\% |
| Adanta, Cumberland River, and Lifeskills | 1,408 | 1,121 | 1,002 | 89.73\% | 577 | 446 | 610,288 | 76.26\% | 68.43\% |
| Bluegrass, Comprehend, and North Key | 2,600 | 2,216 | 2,016 | 90.65\% | 1,126 | 844 | 1,064,608 | 70.69\% | 64.08\% |
| Communicare and River Valley | 1,053 | 886 | 816 | 91.91\% | 455 | 336 | 403,536 | 67.82\% | 62.34\% |
| Four Rivers and Pennyroyal | 719 | 569 | 521 | 91.28\% | 287 | 222 | 343,249 | 74.25\% | 67.77\% |
| Kentucky River, Mountain, and Pathways | 897 | 691 | 622 | 89.45\% | 358 | 279 | 408,053 | 70.21\% | 62.80\% |
| Seven Counties | 1,816 | 1,560 | 1,393 | 89.29\% | 825 | 650 | 805,068 | 73.75\% | 65.85\% |

See notes at end of table.
(continued)

Table C1. Sample Sizes, Weighted Screening and Interview Response Rates, and Population Estimates, by Substate Region, for Individuals Aged 12 or Older: 2012, 2013, and 2014 (continued)

| State/Substate Region | Total <br> Selected DUs | $\begin{gathered} \text { Total Eligible } \\ \text { DUs } \\ \hline \end{gathered}$ | Total <br> Completed <br> Screeners | Weighted DU <br> Screening <br> Response <br> Rate <br> (Percentage) | Total Selected | Total <br> Responded | Population Estimate | Weighted Interview Response Rate (Percentage) | Weighted Overall Response Rate (Percentage) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Louisiana | 8,053 | 6,451 | 5,815 | 89.79\% | 3,562 | 2,796 | 3,772,866 | 74.77\% | 67.13\% |
| Regions 1 and 10 | 1,531 | 1,213 | 1,084 | 88.30\% | 655 | 493 | 727,409 | 71.53\% | 63.16\% |
| Region 1 | 724 | 497 | 453 | 90.84\% | 262 | 201 | 370,733 | 78.77\% | 71.55\% |
| Region 10 (Jefferson) | 807 | 716 | 631 | 87.10\% | 393 | 292 | 356,676 | 67.67\% | 58.94\% |
| Regions 2 and 9 | 2,152 | 1,776 | 1,605 | 90.25\% | 1,039 | 830 | 1,001,912 | 77.91\% | 70.32\% |
| Region 3 | 650 | 563 | 511 | 90.72\% | 327 | 250 | 328,066 | 75.06\% | 68.10\% |
| Regions 4, 5, and 6 | 2,073 | 1,616 | 1,438 | 88.68\% | 858 | 654 | 972,236 | 71.14\% | 63.08\% |
| Regions 7 and 8 | 1,647 | 1,283 | 1,177 | 91.80\% | 683 | 569 | 743,243 | 77.93\% | 71.54\% |
| Maine | 10,832 | 7,930 | 7,135 | 89.88\% | 3,489 | 2,804 | 1,151,999 | 77.55\% | 69.71\% |
| Aroostook/Downeast | 1,598 | 923 | 869 | 94.11\% | 390 | 323 | 137,788 | 82.13\% | 77.30\% |
| Aroostook | 721 | 523 | 490 | 93.48\% | 230 | 205 | 61,785 | 88.67\% | 82.89\% |
| Downeast | 877 | 400 | 379 | 94.85\% | 160 | 118 | 76,003 | 74.01\% | 70.19\% |
| Central | 1,525 | 1,148 | 1,041 | 90.59\% | 460 | 375 | 149,949 | 80.46\% | 72.89\% |
| Cumberland | 2,110 | 1,836 | 1,576 | 85.83\% | 824 | 634 | 247,034 | 74.11\% | 63.61\% |
| Midcoast | 1,075 | 730 | 662 | 90.62\% | 277 | 235 | 128,140 | 84.23\% | 76.32\% |
| Penquis | 1,513 | 1,067 | 985 | 92.20\% | 479 | 401 | 148,493 | 80.43\% | 74.16\% |
| Western | 1,517 | 1,120 | 1,007 | 89.80\% | 530 | 447 | 168,151 | 80.07\% | 71.91\% |
| York | 1,494 | 1,106 | 995 | 89.60\% | 529 | 389 | 172,445 | 67.00\% | 60.03\% |
| Maryland | 7,922 | 6,989 | 5,478 | 78.16\% | 3,554 | 2,770 | 4,947,177 | 74.97\% | 58.59\% |
| Anne Arundel | 853 | 743 | 573 | 76.53\% | 361 | 282 | 464,152 | 74.53\% | 57.04\% |
| Baltimore City | 1,037 | 865 | 682 | 78.96\% | 434 | 367 | 521,363 | 84.61\% | 66.81\% |
| Baltimore County | 990 | 899 | 664 | 73.25\% | 423 | 311 | 693,237 | 74.43\% | 54.52\% |
| Montgomery | 1,219 | 1,133 | 860 | 74.73\% | 549 | 425 | 838,186 | 74.66\% | 55.79\% |
| North Central | 489 | 452 | 349 | 77.23\% | 236 | 186 | 392,997 | 77.02\% | 59.48\% |
| Northeast | 644 | 554 | 468 | 84.51\% | 331 | 251 | 415,119 | 66.42\% | 56.13\% |
| Prince George's | 1,037 | 940 | 715 | 76.27\% | 492 | 359 | 729,740 | 69.37\% | 52.91\% |
| South | 901 | 754 | 615 | 81.95\% | 365 | 304 | 473,748 | 77.25\% | 63.31\% |
| West | 752 | 649 | 552 | 85.37\% | 363 | 285 | 418,634 | 76.17\% | 65.02\% |

[^8]
## (continued)

Table C1. Sample Sizes, Weighted Screening and Interview Response Rates, and Population Estimates, by Substate Region, for Individuals Aged 12 or Older: 2012, 2013, and 2014 (continued)

|  | State/Substate Region | $\begin{array}{\|c} \text { Total } \\ \text { Selected DUs } \\ \hline \end{array}$ | $\begin{gathered} \text { Total Eligible } \\ \text { DUs } \\ \hline \end{gathered}$ | Total <br> Completed <br> Screeners | Weighted DU Screening Response Rate (Percentage) | Total Selected | Total <br> Responded | Population Estimate | Weighted Interview Response Rate (Percentage) | Weighted Overall Response Rate (Percentage) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Massachusetts | 9,019 | 7,886 | 6,465 | 81.81\% | 3,930 | 2,852 | 5,714,249 | 69.08\% | 56.51\% |
|  | Boston | 1,040 | 942 | 764 | 80.83\% | 531 | 375 | 710,161 | 68.43\% | 55.31\% |
|  | Central | 1,139 | 1,028 | 852 | 82.59\% | 486 | 330 | 736,188 | 64.21\% | 53.03\% |
|  | Metrowest | 1,766 | 1,646 | 1,312 | 79.54\% | 737 | 529 | 1,323,939 | 68.31\% | 54.34\% |
|  | Northeast | 1,767 | 1,646 | 1,347 | 81.62\% | 836 | 628 | 1,121,285 | 69.80\% | 56.97\% |
|  | Southeast | 1,979 | 1,510 | 1,270 | 84.10\% | 784 | 541 | 1,097,752 | 67.13\% | 56.45\% |
|  | Western | 1,328 | 1,114 | 920 | 82.34\% | 556 | 449 | 724,925 | 77.93\% | 64.17\% |
|  | Michigan | 30,130 | 24,549 | 20,634 | 83.90\% | 12,591 | 9,709 | 8,345,968 | 73.13\% | 61.36\% |
|  | Region 1 | 1,332 | 891 | 795 | 89.45\% | 396 | 334 | 271,878 | 80.74\% | 72.22\% |
|  | Region 2 | 1,839 | 1,102 | 942 | 85.31\% | 460 | 345 | 438,239 | 76.74\% | 65.46\% |
|  | Region 3 | 3,398 | 2,948 | 2,539 | 85.53\% | 1,660 | 1,326 | 1,021,185 | 75.96\% | 64.96\% |
|  | Region 4 | 2,509 | 2,099 | 1,884 | 89.13\% | 1,141 | 900 | 705,626 | 75.35\% | 67.16\% |
| $\stackrel{1}{-}$ | Region 5 | 5,074 | 3,945 | 3,420 | 86.39\% | 1,996 | 1,625 | 1,403,699 | 79.16\% | 68.39\% |
| $\bigcirc$ | Region 6 | 2,450 | 2,072 | 1,790 | 85.83\% | 1,182 | 919 | 671,218 | 73.65\% | 63.22\% |
|  | Region 7 | 5,034 | 4,021 | 3,160 | 78.41\% | 2,029 | 1,539 | 1,480,129 | 69.16\% | 54.23\% |
|  | Region 8 | 3,431 | 3,091 | 2,517 | 81.56\% | 1,513 | 1,106 | 1,039,135 | 70.06\% | 57.14\% |
|  | Region 9 | 2,489 | 2,287 | 1,782 | 78.43\% | 1,164 | 824 | 718,525 | 66.54\% | 52.18\% |
|  | Region 10 | 2,574 | 2,093 | 1,805 | 86.37\% | 1,050 | 791 | 596,334 | 70.16\% | 60.60\% |
|  | Minnesota | 7,453 | 6,543 | 5,856 | 89.65\% | 3,484 | 2,775 | 4,518,658 | 77.91\% | 69.85\% |
|  | Regions 1 and 2 | 1,041 | 751 | 667 | 88.92\% | 308 | 225 | 453,480 | 69.66\% | 61.94\% |
|  | Regions 3 and 4 | 1,164 | 1,004 | 908 | 90.34\% | 508 | 422 | 771,938 | 84.30\% | 76.16\% |
|  | Regions 5 and 6 | 1,295 | 1,128 | 1,049 | 93.08\% | 638 | 489 | 845,719 | 72.04\% | 67.06\% |
|  | Region 7A (Hennepin) | 1,495 | 1,382 | 1,195 | 86.48\% | 735 | 589 | 1,002,294 | 80.76\% | 69.84\% |
|  | Region 7B (Ramsey) | 639 | 579 | 519 | 89.58\% | 335 | 284 | 439,425 | 81.56\% | 73.06\% |
|  | Region 7C | 1,819 | 1,699 | 1,518 | 89.89\% | 960 | 766 | 1,005,802 | 77.94\% | 70.07\% |

See notes at end of table.

Table C1. Sample Sizes, Weighted Screening and Interview Response Rates, and Population Estimates, by Substate Region, for Individuals Aged 12 or Older: 2012, 2013, and 2014 (continued)

|  | State/Substate Region | Total <br> Selected DUs | Total Eligible DUs | Total Completed Screeners | Weighted DU <br> Screening <br> Response <br> Rate <br> (Percentage) | Total Selected | Total Responded | Population Estimate | Weighted Interview Response Rate (Percentage) | Weighted Overall Response Rate (Percentage) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Mississippi | 7,193 | 5,820 | 5,278 | 90.52\% | 3,358 | 2,728 | 2,430,687 | 78.04\% | 70.64\% |
|  | Region 1 | 1,506 | 1,246 | 1,133 | 90.79\% | 741 | 625 | 551,657 | 82.59\% | 74.99\% |
|  | Region 2 | 928 | 724 | 651 | 89.26\% | 416 | 341 | 300,761 | 75.13\% | 67.07\% |
|  | Region 3 | 1,233 | 974 | 905 | 92.38\% | 522 | 437 | 341,670 | 78.89\% | 72.88\% |
|  | Region 4 | 1,170 | 979 | 843 | 86.18\% | 553 | 423 | 447,201 | 74.10\% | 63.87\% |
|  | Region 5 | 384 | 273 | 258 | 94.23\% | 163 | 121 | 148,199 | 74.01\% | 69.74\% |
|  | Region 6 | 923 | 763 | 728 | 95.30\% | 484 | 405 | 251,105 | 79.93\% | 76.18\% |
|  | Region 7 | 1,049 | 861 | 760 | 88.28\% | 479 | 376 | 390,092 | 76.94\% | 67.92\% |
|  | Missouri | 8,601 | 7,111 | 6,357 | 89.24\% | 3,550 | 2,766 | 5,009,763 | 74.40\% | 66.40\% |
|  | Central | 1,224 | 1,031 | 939 | 91.03\% | 542 | 432 | 680,338 | 75.32\% | 68.56\% |
|  | Eastern | 2,930 | 2,581 | 2,320 | 89.70\% | 1,252 | 961 | 1,742,375 | 71.94\% | 64.54\% |
|  | Eastern (St. Louis City and County) | 1,884 | 1,623 | 1,463 | 89.85\% | 748 | 572 | 1,099,907 | 71.48\% | 64.23\% |
|  | Eastern (excluding St. Louis) | 1,046 | 958 | 857 | 89.47\% | 504 | 389 | 642,468 | 72.61\% | 64.96\% |
| - | Northwest | 1,921 | 1,578 | 1,443 | 91.29\% | 815 | 647 | 1,211,706 | 77.74\% | 70.97\% |
|  | Northwest (Jackson) | 1,046 | 871 | 798 | 91.46\% | 447 | 359 | 554,310 | 78.70\% | 71.98\% |
|  | Northwest (excluding Jackson) | 875 | 707 | 645 | 91.09\% | 368 | 288 | 657,395 | 76.66\% | 69.83\% |
|  | Southeast | 1,139 | 825 | 740 | 89.99\% | 453 | 354 | 595,780 | 75.46\% | 67.91\% |
|  | Southwest | 1,387 | 1,096 | 915 | 82.99\% | 488 | 372 | 779,564 | 73.80\% | 61.25\% |
|  | Montana | 9,115 | 7,309 | 6,702 | 91.57\% | 3,573 | 2,763 | 854,275 | 74.73\% | 68.44\% |
|  | Region 1 | 711 | 495 | 474 | 95.72\% | 238 | 196 | 67,224 | 85.72\% | 82.05\% |
|  | Region 2 | 1,441 | 1,102 | 1,019 | 92.11\% | 518 | 430 | 120,568 | 82.51\% | 75.99\% |
|  | Region 3 | 2,141 | 1,765 | 1,587 | 89.71\% | 833 | 647 | 176,644 | 75.19\% | 67.45\% |
|  | Region 4 | 2,022 | 1,622 | 1,476 | 90.98\% | 840 | 627 | 226,881 | 72.63\% | 66.08\% |
|  | Region 5 | 2,800 | 2,325 | 2,146 | 92.21\% | 1,144 | 863 | 262,959 | 69.80\% | 64.36\% |
|  | Nebraska | 8,067 | 6,777 | 6,139 | 90.37\% | 3,584 | 2,788 | 1,533,852 | 73.60\% | 66.51\% |
|  | Regions 1 and 2 | 856 | 643 | 596 | 92.36\% | 358 | 268 | 156,367 | 68.28\% | 63.07\% |
|  | Region 1 | 528 | 375 | 345 | 91.68\% | 222 | 170 | 73,199 | 69.69\% | 63.89\% |
|  | Region 2 | 328 | 268 | 251 | 93.35\% | 136 | 98 | 83,168 | 65.53\% | 61.17\% |
|  | Region 3 | 1,258 | 1,017 | 945 | 92.76\% | 516 | 431 | 188,369 | 78.66\% | 72.97\% |
|  | Region 4 | 775 | 616 | 579 | 93.94\% | 313 | 240 | 170,429 | 72.62\% | 68.22\% |
|  | Region 5 | 2,041 | 1,761 | 1,604 | 90.96\% | 936 | 735 | 378,877 | 72.52\% | 65.96\% |
|  | Region 6 | 3,137 | 2,740 | 2,415 | 87.80\% | 1,461 | 1,114 | 639,810 | 74.10\% | 65.06\% |

See notes at end of table.

Table C1. Sample Sizes, Weighted Screening and Interview Response Rates, and Population Estimates, by Substate Region, for Individuals Aged 12 or Older: 2012, 2013, and 2014 (continued)

|  | State/Substate Region | Total Selected DUs | Total Eligible DUs | Total <br> Completed <br> Screeners | Weighted DU Screening Response Rate (Percentage) | Total Selected | Total <br> Responded | Population Estimate | Weighted Interview Response Rate (Percentage) | Weighted <br> Overall <br> Response <br> Rate <br> (Percentage) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Nevada | 7,528 | 6,211 | 5,317 | 84.69\% | 3,550 | 2,796 | 2,316,939 | 74.33\% | 62.95\% |
|  | Clark - Region 1 | 5,197 | 4,268 | 3,631 | 84.05\% | 2,391 | 1,897 | 1,667,917 | 74.56\% | 62.66\% |
|  | Region 3 | 1,046 | 827 | 744 | 89.49\% | 436 | 322 | 285,362 | 73.04\% | 65.36\% |
|  | Capital District | 374 | 325 | 289 | 87.56\% | 169 | 124 | 135,596 | 71.30\% | 62.42\% |
|  | Rural/Frontier | 672 | 502 | 455 | 90.72\% | 267 | 198 | 149,766 | 74.35\% | 67.45\% |
|  | Washoe - Region 2 | 1,285 | 1,116 | 942 | 83.69\% | 723 | 577 | 363,660 | 74.45\% | 62.30\% |
|  | New Hampshire | 9,522 | 7,865 | 6,744 | 85.70\% | 3,790 | 2,835 | 1,141,956 | 72.55\% | 62.17\% |
|  | Central | 2,864 | 2,397 | 2,091 | 87.18\% | 1,192 | 936 | 324,468 | 74.51\% | 64.96\% |
|  | Central 1 | 1,318 | 1,138 | 1,009 | 88.56\% | 622 | 486 | 160,191 | 72.47\% | 64.18\% |
|  | Central 2 | 1,546 | 1,259 | 1,082 | 85.91\% | 570 | 450 | 164,278 | 76.61\% | 65.82\% |
|  | Northern | 1,613 | 974 | 851 | 87.08\% | 433 | 330 | 148,840 | 76.58\% | 66.69\% |
|  | Southern | 5,045 | 4,494 | 3,802 | 84.62\% | 2,165 | 1,569 | 668,648 | 70.81\% | 59.92\% |
| $\stackrel{\ddots}{\mathrm{N}}$ | Southern 1 (Rockingham) | 2,077 | 1,880 | 1,613 | 85.75\% | 902 | 623 | 257,005 | 68.28\% | 58.55\% |
|  | Southern 2 | 2,968 | 2,614 | 2,189 | 83.81\% | 1,263 | 946 | 411,642 | 72.67\% | 60.91\% |
|  | New Jersey | 10,189 | 8,746 | 7,167 | 82.65\% | 4,560 | 3,347 | 7,480,144 | 70.73\% | 58.46\% |
|  | Central | 2,417 | 2,019 | 1,656 | 82.65\% | 1,030 | 755 | 1,718,758 | 69.87\% | 57.74\% |
|  | Metropolitan | 2,628 | 2,283 | 1,821 | 80.65\% | 1,147 | 839 | 1,797,944 | 68.89\% | 55.56\% |
|  | Northern | 3,085 | 2,690 | 2,222 | 82.99\% | 1,435 | 1,041 | 2,403,370 | 71.91\% | 59.67\% |
|  | Southern | 2,059 | 1,754 | 1,468 | 84.58\% | 948 | 712 | 1,560,072 | 72.32\% | 61.17\% |
|  | New Mexico | 7,952 | 6,052 | 5,482 | 90.44\% | 3,441 | 2,760 | 1,718,212 | 76.10\% | 68.82\% |
|  | Region 1 | 1,461 | 1,178 | 1,081 | 91.13\% | 696 | 576 | 356,636 | 79.56\% | 72.50\% |
|  | Region 2 | 1,322 | 926 | 821 | 88.69\% | 449 | 358 | 248,167 | 72.89\% | 64.64\% |
|  | Region 3 (Bernalillo) | 2,349 | 1,932 | 1,711 | 88.50\% | 1,061 | 846 | 559,454 | 76.53\% | 67.73\% |
|  | Region 4 | 1,096 | 896 | 815 | 91.42\% | 562 | 435 | 214,977 | 73.31\% | 67.02\% |
|  | Region 5 | 1,724 | 1,120 | 1,054 | 93.60\% | 673 | 545 | 338,978 | 76.14\% | 71.26\% |

See notes at end of table.

Table C1. Sample Sizes, Weighted Screening and Interview Response Rates, and Population Estimates, by Substate Region, for Individuals Aged 12 or Older: 2012, 2013, and 2014 (continued)

|  | State/Substate Region | Total <br> Selected DUs | Total Eligible DUs | Total <br> Completed <br> Screeners | Weighted DU Screening Response Rate (Percentage) | Total Selected | Total <br> Responded | Population Estimate | Weighted <br> Interview <br> Response Rate $\qquad$ | Weighted Overall Response Rate (Percentage) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | New York | 40,767 | 35,101 | 24,961 | 70.60\% | 15,350 | 10,601 | 16,622,553 | 64.06\% | 45.23\% |
|  | Region A | 17,099 | 15,079 | 9,526 | 62.85\% | 6,219 | 4,014 | 7,075,349 | 59.55\% | 37.43\% |
|  | Region 1 | 2,717 | 2,441 | 1,775 | 72.86\% | 1,264 | 940 | 1,152,598 | 72.11\% | 52.54\% |
|  | Region 2 | 6,020 | 5,355 | 3,378 | 63.02\% | 2,198 | 1,348 | 2,539,400 | 56.31\% | 35.49\% |
|  | Region 3 | 4,222 | 3,606 | 2,092 | 57.05\% | 1,139 | 761 | 1,441,473 | 64.88\% | 37.02\% |
|  | Region 4 | 4,140 | 3,677 | 2,281 | 61.97\% | 1,618 | 965 | 1,941,877 | 52.80\% | 32.72\% |
|  | Region B | 9,019 | 8,127 | 5,652 | 68.38\% | 3,732 | 2,475 | 4,301,696 | 60.93\% | 41.67\% |
|  | Region 5 | 4,871 | 4,422 | 3,187 | 69.91\% | 2,218 | 1,443 | 2,422,547 | 60.26\% | 42.13\% |
|  | Region 6 | 2,422 | 2,234 | 1,402 | 63.12\% | 880 | 570 | 1,155,102 | 59.61\% | 37.63\% |
|  | Region 7 | 1,726 | 1,471 | 1,063 | 71.90\% | 634 | 462 | 724,048 | 65.70\% | 47.24\% |
|  | Region C | 10,334 | 8,887 | 7,217 | 80.93\% | 4,081 | 3,114 | 3,921,179 | 72.80\% | 58.91\% |
|  | Region 8 | 2,127 | 1,824 | 1,454 | 79.28\% | 842 | 603 | 858,772 | 71.52\% | 56.70\% |
| $\stackrel{1}{\omega}$ | Region 9 | 2,408 | 2,084 | 1,717 | 82.26\% | 963 | 751 | 814,993 | 73.74\% | 60.66\% |
|  | Region 10 | 841 | 688 | 556 | 80.18\% | 313 | 252 | 378,512 | 75.69\% | 60.69\% |
|  | Region 11 | 2,384 | 2,054 | 1,667 | 80.67\% | 966 | 738 | 898,353 | 73.36\% | 59.18\% |
|  | Region 12 | 2,574 | 2,237 | 1,823 | 81.49\% | 997 | 770 | 970,550 | 71.76\% | 58.48\% |
|  | Region D | 4,315 | 3,008 | 2,566 | 84.71\% | 1,318 | 998 | 1,324,329 | 71.82\% | 60.84\% |
|  | Region 13 | 1,856 | 1,131 | 964 | 84.64\% | 461 | 349 | 408,192 | 72.42\% | 61.29\% |
|  | Region 14 | 1,024 | 688 | 581 | 84.56\% | 327 | 248 | 456,356 | 70.23\% | 59.39\% |
|  | Region 15 | 1,435 | 1,189 | 1,021 | 84.86\% | 530 | 401 | 459,781 | 72.26\% | 61.32\% |

See notes at end of table.

Table C1. Sample Sizes, Weighted Screening and Interview Response Rates, and Population Estimates, by Substate Region, for Individuals Aged 12 or Older: 2012, 2013, and 2014 (continued)

|  | State/Substate Region | Total <br> Selected DUs | Total Eligible DUs | Total Completed Screeners | Weighted DU Screening Response Rate (Percentage) | Total Selected | Total <br> Responded | Population Estimate | Weighted <br> Interview <br> Response Rate <br> (Percentage) | Weighted Overall Response Rate (Percentage) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | North Carolina | 9,905 | 8,071 | 7,052 | 87.44\% | 4,176 | 3,330 | 8,112,661 | 76.00\% | 66.45\% |
|  | Alliance Behavioral Healthcare 1 | 803 | 675 | 612 | 90.47\% | 392 | 334 | 636,566 | 84.01\% | 76.00\% |
|  | Alliance Behavioral Healthcare 2 | 894 | 781 | 701 | 89.55\% | 388 | 313 | 782,617 | 75.45\% | 67.57\% |
|  | Cardinal Innovations Healthcare Solutions 1 | 829 | 707 | 578 | 82.76\% | 328 | 246 | 619,013 | 72.63\% | 60.11\% |
|  | Cardinal Innovations Healthcare Solutions 2 | 772 | 671 | 617 | 91.80\% | 361 | 295 | 557,384 | 80.56\% | 73.95\% |
|  | Cardinal Innovations Healthcare Solutions 3 | 753 | 657 | 530 | 80.49\% | 361 | 259 | 789,444 | 70.64\% | 56.86\% |
|  | CenterPoint Human Services | 559 | 487 | 410 | 84.26\% | 274 | 237 | 450,760 | 83.11\% | 70.03\% |
|  | Eastpointe | 844 | 707 | 641 | 90.76\% | 379 | 299 | 679,883 | 70.37\% | 63.86\% |
|  | Partners Behavioral Health Management | 987 | 828 | 725 | 87.81\% | 468 | 370 | 757,835 | 75.17\% | 66.01\% |
| $\bigcirc$ | Sandhills Center 1 | 428 | 321 | 272 | 82.86\% | 153 | 124 | 467,131 | 73.34\% | 60.77\% |
| + | Sandhills Center 2 | 595 | 493 | 420 | 85.36\% | 235 | 191 | 419,943 | 83.68\% | 71.42\% |
|  | Smoky Mountain Center 1 | 530 | 345 | 308 | 89.18\% | 185 | 141 | 457,963 | 68.83\% | 61.38\% |
|  | Smoky Mountain Center 2 | 713 | 543 | 473 | 87.35\% | 191 | 153 | 451,426 | 78.59\% | 68.65\% |
|  | Trillium Health Resources 1 | 544 | 396 | 348 | 89.35\% | 232 | 191 | 516,013 | 80.51\% | 71.93\% |
|  | Trillium Health Resources 2 | 654 | 460 | 417 | 89.98\% | 229 | 177 | 526,682 | 64.99\% | 58.47\% |
|  | North Dakota | 10,051 | 7,763 | 7,159 | 92.06\% | 3,653 | 2,809 | 594,462 | 73.12\% | 67.32\% |
|  | Badlands and West Central | 2,569 | 1,951 | 1,860 | 95.33\% | 884 | 702 | 159,784 | 76.21\% | 72.65\% |
|  | Lake Region | 875 | 662 | 598 | 90.29\% | 273 | 209 | 33,321 | 72.96\% | 65.88\% |
|  | North Central | 1,336 | 910 | 847 | 92.62\% | 426 | 329 | 82,028 | 75.32\% | 69.75\% |
|  | Northeast | 1,332 | 1,092 | 987 | 90.60\% | 570 | 437 | 76,284 | 69.58\% | 63.04\% |
|  | Northwest | 568 | 372 | 359 | 96.40\% | 209 | 139 | 30,735 | 64.55\% | 62.22\% |
|  | South Central | 944 | 704 | 650 | 92.46\% | 263 | 207 | 48,377 | 75.32\% | 69.64\% |
|  | Southeast | 2,427 | 2,072 | 1,858 | 89.04\% | 1,028 | 786 | 163,934 | 72.37\% | 64.44\% |

See notes at end of table.

Table C1. Sample Sizes, Weighted Screening and Interview Response Rates, and Population Estimates, by Substate Region, for Individuals Aged 12 or Older: 2012, 2013, and 2014 (continued)

|  | State/Substate Region | Total Selected DUs | Total Eligible DUs | Total <br> Completed Screeners | Weighted DU <br> Screening <br> Response <br> Rate <br> (Percentage) | Total Selected | Total Responded | Population Estimate | Weighted <br> Interview <br> Response <br> Rate <br> (Percentage) | Weighted <br> Overall <br> Response <br> Rate <br> (Percentage) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Ohio | 29,584 | 25,253 | 22,004 | 86.76\% | 12,898 | 9,670 | 9,674,385 | 71.18\% | 61.75\% |
|  | Boards 2, 46, 55, and 68 | 1,050 | 907 | 764 | 84.07\% | 481 | 343 | 428,541 | 66.48\% | 55.89\% |
|  | Boards 3, 52, and 85 | 966 | 875 | 768 | 87.45\% | 410 | 304 | 318,153 | 72.48\% | 63.38\% |
|  | Boards 4 and 78 | 791 | 669 | 611 | 91.30\% | 285 | 222 | 262,041 | 77.42\% | 70.68\% |
|  | Boards 5 and 60 | 750 | 636 | 601 | 94.04\% | 400 | 324 | 286,254 | 79.15\% | 74.43\% |
|  | Boards 7, 15, 41, 79, and 84 | 1,342 | 1,122 | 1,019 | 88.59\% | 528 | 405 | 391,238 | 73.11\% | 64.77\% |
|  | Boards 8, 13, and 83 | 1,221 | 1,043 | 883 | 84.89\% | 571 | 406 | 415,759 | 67.34\% | 57.17\% |
|  | Board 9 (Butler) | 804 | 692 | 586 | 84.66\% | 389 | 272 | 307,246 | 64.96\% | 54.99\% |
|  | Board 12 | 743 | 622 | 533 | 85.98\% | 329 | 233 | 291,381 | 63.08\% | 54.24\% |
|  | Boards 18 and 47 | 4,269 | 3,544 | 3,017 | 84.37\% | 1,640 | 1,299 | 1,316,932 | 75.55\% | 63.73\% |
|  | Boards 20, 32, 54, and 69 | 970 | 877 | 841 | 95.65\% | 459 | 354 | 286,134 | 74.38\% | 71.14\% |
| $\bigcirc$ | Boards 21, 39, 51, 70, and 80 | 1,352 | 1,213 | 1,087 | 89.92\% | 709 | 527 | 463,444 | 71.12\% | 63.95\% |
| $\stackrel{\sim}{u}$ | Boards 22, 74, and 87 | 999 | 769 | 708 | 91.52\% | 401 | 312 | 326,476 | 78.47\% | 71.82\% |
|  | Boards 23 and 45 | 966 | 799 | 723 | 90.27\% | 464 | 360 | 314,595 | 72.62\% | 65.56\% |
|  | Board 25 (Franklin) | 2,945 | 2,559 | 2,101 | 81.65\% | 1,310 | 957 | 986,745 | 70.98\% | 57.95\% |
|  | Boards 27, 71, and 73 | 1,257 | 1,069 | 964 | 89.18\% | 592 | 421 | 413,378 | 63.56\% | 56.68\% |
|  | Boards 28, 43, and 67 | 1,223 | 1,026 | 929 | 90.53\% | 613 | 481 | 413,943 | 75.41\% | 68.27\% |
|  | Board 31 (Hamilton) | 2,319 | 1,944 | 1,576 | 81.06\% | 897 | 691 | 662,797 | 73.53\% | 59.60\% |
|  | Board 48 (Lucas) | 1,095 | 984 | 860 | 87.60\% | 507 | 362 | 363,646 | 65.64\% | 57.50\% |
|  | Boards 50 and 76 | 1,779 | 1,520 | 1,390 | 91.48\% | 758 | 549 | 518,114 | 66.33\% | 60.68\% |
|  | Board 57 (Montgomery) | 1,480 | 1,266 | 1,045 | 82.24\% | 589 | 445 | 452,661 | 71.36\% | 58.69\% |
|  | Board 77 (Summit) | 1,263 | 1,117 | 998 | 88.67\% | 566 | 403 | 454,908 | 66.82\% | 59.24\% |
|  | Oklahoma | 8,049 | 6,536 | 5,882 | 89.95\% | 3,723 | 2,795 | 3,128,664 | 69.88\% | 62.86\% |
|  | Central | 838 | 744 | 663 | 88.90\% | 442 | 312 | 394,726 | 62.74\% | 55.77\% |
|  | East Central | 895 | 761 | 714 | 94.11\% | 441 | 333 | 359,859 | 74.73\% | 70.32\% |
|  | Northeast | 1,075 | 859 | 799 | 92.89\% | 466 | 356 | 399,926 | 70.47\% | 65.46\% |
|  | Northwest and Southwest | 1,229 | 888 | 803 | 90.43\% | 462 | 362 | 447,891 | 71.91\% | 65.02\% |
|  | Oklahoma County | 1,532 | 1,310 | 1,140 | 87.13\% | 761 | 557 | 600,549 | 66.34\% | 57.81\% |
|  | Southeast | 1,304 | 1,009 | 934 | 92.23\% | 591 | 450 | 426,132 | 71.32\% | 65.78\% |
|  | Tulsa County | 1,176 | 965 | 829 | 85.94\% | 560 | 425 | 499,582 | 73.20\% | 62.91\% |

See notes at end of table.

Table C1. Sample Sizes, Weighted Screening and Interview Response Rates, and Population Estimates, by Substate Region, for Individuals Aged 12 or Older: 2012, 2013, and 2014 (continued)

|  | State/Substate Region | Total <br> Selected DUs | Total Eligible DUs | Total Completed Screeners | Weighted DU Screening Response Rate (Percentage) | Total Selected | Total Responded | Population Estimate | Weighted Interview Response Rate (Percentage) | Weighted Overall Response Rate (Percentage) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Oregon | 7,846 | 6,915 | 6,049 | 87.50\% | 3,576 | 2,776 | 3,337,930 | 75.43\% | 66.00\% |
|  | Region 1 (Multnomah) | 1,603 | 1,461 | 1,263 | 86.78\% | 700 | 528 | 656,607 | 74.00\% | 64.22\% |
|  | Region 2 | 1,554 | 1,444 | 1,264 | 87.65\% | 863 | 667 | 785,496 | 73.42\% | 64.35\% |
|  | Region 3 | 2,461 | 2,157 | 1,889 | 87.25\% | 1,095 | 865 | 1,040,424 | 78.60\% | 68.58\% |
|  | Region 4 | 1,253 | 1,055 | 901 | 85.50\% | 470 | 370 | 475,661 | 77.22\% | 66.03\% |
|  | Region 5 (Central) | 424 | 361 | 330 | 91.34\% | 214 | 173 | 174,095 | 76.62\% | 69.98\% |
|  | Region 6 (Eastern) | 551 | 437 | 402 | 92.22\% | 234 | 173 | 205,647 | 66.95\% | 61.74\% |
|  | Pennsylvania | 32,300 | 27,774 | 22,541 | 80.87\% | 12,651 | 9,631 | 10,808,980 | 71.52\% | 57.84\% |
|  | Region 1 (Allegheny) | 3,364 | 2,963 | 2,474 | 83.47\% | 1,308 | 905 | 1,057,711 | 65.55\% | 54.71\% |
|  | Regions 3, 8, 9, and 51 | 1,924 | 1,682 | 1,442 | 86.07\% | 770 | 574 | 598,769 | 69.67\% | 59.97\% |
|  | Regions 4, 11, 37, and 49 | 2,337 | 1,799 | 1,483 | 82.93\% | 881 | 661 | 766,595 | 70.20\% | 58.21\% |
|  | Regions 5, 18, 23, 24, and 46 | 2,068 | 1,793 | 1,563 | 86.33\% | 831 | 671 | 632,134 | 74.27\% | 64.12\% |
| $\bigcirc$ | Regions 6, 12, 16, 31, 35, 45, and 47 | 1,758 | 1,492 | 1,328 | 87.85\% | 765 | 610 | 607,968 | 75.65\% | 66.46\% |
| ふ | Regions 7, 13, 20, and 33 | 6,109 | 5,529 | 4,056 | 72.03\% | 2,312 | 1,737 | 2,105,420 | 70.17\% | 50.55\% |
|  | Regions 10, 15, 27, 32, 43, and 44 | 1,294 | 1,085 | 984 | 90.54\% | 505 | 409 | 440,206 | 78.50\% | 71.07\% |
|  | Regions 17 and 21 | 917 | 797 | 717 | 89.53\% | 351 | 288 | 311,928 | 76.52\% | 68.51\% |
|  | Regions 19, 26, 28, and 42 | 3,506 | 3,107 | 2,721 | 87.50\% | 1,597 | 1,238 | 1,227,294 | 73.51\% | 64.32\% |
|  | Regions 22, 38, 40, 41, and 48 | 2,026 | 1,622 | 1,403 | 86.21\% | 742 | 546 | 710,814 | 69.90\% | 60.26\% |
|  | Regions 29 and 34 | 1,506 | 1,250 | 1,104 | 89.19\% | 572 | 416 | 552,687 | 66.13\% | 58.98\% |
|  | Regions 30 and 50 | 1,606 | 1,358 | 1,131 | 83.50\% | 627 | 457 | 520,153 | 72.25\% | 60.33\% |
|  | Region 36 (Philadelphia) | 3,885 | 3,297 | 2,135 | 65.37\% | 1,390 | 1,119 | 1,277,300 | 75.58\% | 49.41\% |
|  | Rhode Island | 8,270 | 6,956 | 6,021 | 86.51\% | 3,632 | 2,818 | 898,242 | 73.97\% | 64.00\% |
|  | Bristol and Newport | 1,004 | 792 | 700 | 88.33\% | 363 | 281 | 114,467 | 73.14\% | 64.60\% |
|  | Kent | 1,217 | 1,087 | 944 | 87.06\% | 533 | 393 | 142,012 | 68.12\% | 59.31\% |
|  | Providence | 4,825 | 4,090 | 3,505 | 85.58\% | 2,242 | 1,759 | 532,030 | 75.85\% | 64.91\% |
|  | Washington | 1,224 | 987 | 872 | 88.17\% | 494 | 385 | 109,733 | 73.57\% | 64.86\% |
|  | South Carolina | 9,440 | 7,736 | 6,640 | 85.63\% | 3,613 | 2,844 | 3,956,936 | 75.58\% | 64.72\% |
|  | Region 1 | 2,901 | 2,409 | 2,047 | 84.64\% | 1,079 | 821 | 1,243,056 | 72.37\% | 61.26\% |
|  | Region 2 | 2,111 | 1,827 | 1,564 | 85.53\% | 866 | 696 | 970,647 | 77.23\% | 66.05\% |
|  | Region 3 | 1,941 | 1,460 | 1,261 | 86.16\% | 678 | 515 | 687,638 | 74.18\% | 63.91\% |
|  | Region 4 | 2,487 | 2,040 | 1,768 | 86.50\% | 990 | 812 | 1,055,596 | 78.74\% | 68.11\% |

See notes at end of table.
(continued)

Table C1. Sample Sizes, Weighted Screening and Interview Response Rates, and Population Estimates, by Substate Region, for Individuals Aged 12 or Older: 2012, 2013, and 2014 (continued)

|  | State/Substate Region | Total <br> Selected DUs | Total Eligible DUs | Total <br> Completed <br> Screeners | Weighted DU Screening Response Rate (Percentage) | Total Selected | Total <br> Responded | Population Estimate | Weighted Interview Response Rate (Percentage) | Weighted Overall Response Rate (Percentage) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | South Dakota | 7,527 | 6,146 | 5,769 | 93.90\% | 3,494 | 2,748 | 687,598 | 75.99\% | 71.35\% |
|  | Region 1 | 1,965 | 1,618 | 1,504 | 93.06\% | 892 | 705 | 169,081 | 77.41\% | 72.03\% |
|  | Region 2 | 702 | 573 | 538 | 93.98\% | 357 | 284 | 63,097 | 73.87\% | 69.42\% |
|  | Region 3 | 1,879 | 1,436 | 1,347 | 93.78\% | 778 | 615 | 162,926 | 78.39\% | 73.51\% |
|  | Region 4 | 1,007 | 831 | 793 | 95.48\% | 464 | 345 | 97,103 | 71.30\% | 68.08\% |
|  | Region 5 | 1,974 | 1,688 | 1,587 | 94.00\% | 1,003 | 799 | 195,392 | 75.75\% | 71.20\% |
|  | Tennessee | 7,825 | 6,465 | 5,757 | 88.84\% | 3,430 | 2,767 | 5,424,854 | 77.56\% | 68.90\% |
|  | Region 1 | 719 | 609 | 548 | 89.72\% | 304 | 234 | 439,416 | 75.15\% | 67.42\% |
|  | Region 2 | 1,509 | 1,210 | 1,085 | 89.48\% | 617 | 493 | 1,015,153 | 79.60\% | 71.23\% |
|  | Region 3 | 1,161 | 982 | 894 | 91.09\% | 549 | 461 | 812,846 | 79.57\% | 72.47\% |
|  | Region 4 (Davidson) | 850 | 697 | 606 | 86.84\% | 359 | 275 | 538,805 | 72.47\% | 62.93\% |
| $\bigcirc$ | Region 5 | 1,644 | 1,434 | 1,268 | 88.17\% | 807 | 642 | 1,307,310 | 78.29\% | 69.02\% |
| $\ddagger$ | Region 6 | 883 | 649 | 613 | 94.22\% | 331 | 283 | 533,058 | 78.84\% | 74.28\% |
|  | Region 7 (Shelby) | 1,059 | 884 | 743 | 83.43\% | 463 | 379 | 778,267 | 75.80\% | 63.24\% |

Table C1. Sample Sizes, Weighted Screening and Interview Response Rates, and Population Estimates, by Substate Region, for Individuals Aged 12 or Older: 2012, 2013, and 2014 (continued)

|  | State/Substate Region | Total Selected DUs | Total Eligible DUs | Total Completed Screeners | Weighted DU <br> Screening <br> Response <br> Rate <br> (Percentage) | Total Selected | Total <br> Responded | Population Estimate | Weighted Interview Response Rate (Percentage) | Weighted Overall Response Rate (Percentage) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Texas | 25,375 | 21,395 | 18,731 | 87.41\% | 13,936 | 10,612 | 21,255,571 | 71.92\% | 62.86\% |
|  | Region 1 | 1,006 | 866 | 775 | 89.06\% | 553 | 404 | 700,556 | 68.20\% | 60.74\% |
|  | Region 2 | 530 | 398 | 373 | 93.51\% | 231 | 198 | 458,176 | 82.76\% | 77.39\% |
|  | Region 3 | 6,321 | 5,621 | 5,151 | 91.49\% | 3,879 | 3,092 | 5,709,770 | 75.33\% | 68.92\% |
|  | Region 3a | 3,925 | 3,534 | 3,202 | 90.39\% | 2,382 | 1,867 | 3,636,876 | 73.39\% | 66.34\% |
|  | Region 3bc | 2,396 | 2,087 | 1,949 | 93.45\% | 1,497 | 1,225 | 2,072,894 | 78.66\% | 73.50\% |
|  | Region 4 | 1,290 | 998 | 931 | 92.96\% | 614 | 487 | 937,270 | 73.94\% | 68.74\% |
|  | Region 5 | 976 | 754 | 669 | 88.92\% | 395 | 287 | 646,406 | 67.17\% | 59.73\% |
|  | Region 6 | 6,093 | 5,239 | 4,221 | 80.49\% | 3,267 | 2,213 | 5,140,988 | 63.27\% | 50.92\% |
|  | Region 6a | 5,355 | 4,669 | 3,750 | 80.19\% | 2,934 | 1,990 | 4,598,455 | 63.83\% | 51.18\% |
|  | Region 6bc | 738 | 570 | 471 | 83.00\% | 333 | 223 | 542,533 | 58.63\% | 48.66\% |
|  | Region 7 | 3,330 | 2,635 | 2,382 | 90.10\% | 1,696 | 1,327 | 2,564,103 | 75.48\% | 68.01\% |
| $\frac{1}{\infty}$ | Region 7a | 1,977 | 1,623 | 1,452 | 89.39\% | 990 | 754 | 1,622,678 | 73.13\% | 65.37\% |
|  | Region 7bcd | 1,353 | 1,012 | 930 | 91.31\% | 706 | 573 | 941,425 | 79.17\% | 72.29\% |
|  | Region 8 | 2,675 | 2,291 | 1,855 | 81.17\% | 1,372 | 1,073 | 2,220,314 | 74.61\% | 60.56\% |
|  | Region 9 | 620 | 501 | 469 | 93.67\% | 342 | 233 | 479,518 | 65.10\% | 60.98\% |
|  | Region 10 | 734 | 670 | 621 | 92.22\% | 514 | 416 | 691,723 | 78.84\% | 72.71\% |
|  | Region 11 | 1,800 | 1,422 | 1,284 | 90.26\% | 1,073 | 882 | 1,706,747 | 78.29\% | 70.67\% |
|  | Region 11abd | 1,184 | 904 | 824 | 91.04\% | 627 | 500 | 1,082,350 | 74.22\% | 67.57\% |
|  | Region 11c (Hidalgo) | 616 | 518 | 460 | 88.90\% | 446 | 382 | 624,398 | 84.43\% | 75.05\% |
|  | Utah | 5,359 | 4,673 | 4,427 | 94.88\% | 3,435 | 2,828 | 2,267,830 | 79.70\% | 75.62\% |
|  | Bear River, Northeastern, Summit, Tooele, and Wasatch | 690 | 598 | 561 | 93.69\% | 432 | 365 | 272,267 | 82.94\% | 77.70\% |
|  | Central, Four Corners, San Juan, and Southwest | 685 | 511 | 478 | 93.15\% | 326 | 250 | 275,710 | 72.42\% | 67.46\% |
|  | Davis County | 556 | 512 | 484 | 94.49\% | 392 | 340 | 245,606 | 86.09\% | 81.35\% |
|  | Salt Lake County | 2,148 | 1,897 | 1,805 | 95.15\% | 1,377 | 1,114 | 863,824 | 78.82\% | 75.00\% |
|  | Utah County | 893 | 810 | 763 | 95.11\% | 642 | 528 | 412,454 | 78.46\% | 74.63\% |
|  | Weber, Morgan | 387 | 345 | 336 | 97.67\% | 266 | 231 | 197,968 | 82.26\% | 80.34\% |

See notes at end of table.
(continued)

Table C1. Sample Sizes, Weighted Screening and Interview Response Rates, and Population Estimates, by Substate Region, for Individuals Aged 12 or Older: 2012, 2013, and 2014 (continued)

|  | State/Substate Region | Total Selected DUs | Total Eligible DUs | Total <br> Completed <br> Screeners | $\begin{array}{\|c\|} \hline \text { Weighted DU } \\ \text { Screening } \\ \text { Response } \\ \text { Rate } \\ \text { (Percentage) } \\ \hline \end{array}$ | Total Selected | Total Responded | Population Estimate | Weighted Interview Response Rate (Percentage) | Weighted Overall Response Rate (Percentage) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Vermont | 10,209 | 8,115 | 6,967 | 85.74\% | 3,511 | 2,708 | 545,894 | 74.75\% | 64.09\% |
|  | Champlain Valley | 4,144 | 3,424 | 2,957 | 86.32\% | 1,649 | 1,246 | 218,396 | 72.09\% | 62.23\% |
|  | Rural Northeast | 2,130 | 1,738 | 1,389 | 79.77\% | 698 | 538 | 128,688 | 75.86\% | 60.52\% |
|  | Rural Southeast | 2,225 | 1,684 | 1,474 | 87.36\% | 695 | 539 | 113,325 | 75.60\% | 66.04\% |
|  | Rural Southwest | 1,710 | 1,269 | 1,147 | 90.36\% | 469 | 385 | 85,486 | 79.64\% | 71.96\% |
|  | Virginia | 9,039 | 7,967 | 6,777 | 85.31\% | 4,263 | 3,335 | 6,803,172 | 75.33\% | 64.27\% |
|  | Region 1 | 1,305 | 1,161 | 1,042 | 89.78\% | 679 | 579 | 1,057,936 | 83.35\% | 74.84\% |
|  | Region 2 | 2,324 | 2,169 | 1,801 | 83.86\% | 1,216 | 921 | 1,910,006 | 72.23\% | 60.57\% |
|  | Region 3 | 1,781 | 1,487 | 1,260 | 84.80\% | 722 | 570 | 1,155,467 | 77.20\% | 65.46\% |
|  | Region 4 | 1,521 | 1,324 | 1,124 | 84.20\% | 676 | 512 | 1,160,224 | 71.50\% | 60.21\% |
|  | Region 5 | 2,108 | 1,826 | 1,550 | 85.37\% | 970 | 753 | 1,519,538 | 74.50\% | 63.60\% |
| $\bigcirc$ | Washington | 7,747 | 6,714 | 5,720 | 85.15\% | 3,634 | 2,763 | 5,809,672 | 72.43\% | 61.67\% |
| $\sigma$ | Region 1 | 1,559 | 1,300 | 1,153 | 88.61\% | 729 | 571 | 1,263,639 | 73.45\% | 65.08\% |
|  | Greater Columbia and North Central | 895 | 758 | 664 | 87.56\% | 436 | 345 | 748,582 | 74.78\% | 65.47\% |
|  | Spokane | 664 | 542 | 489 | 90.09\% | 293 | 226 | 515,057 | 71.71\% | 64.60\% |
|  | Region 2 | 3,787 | 3,336 | 2,799 | 83.88\% | 1,741 | 1,291 | 2,670,225 | 71.47\% | 59.95\% |
|  | King | 2,278 | 2,090 | 1,699 | 81.35\% | 1,084 | 792 | 1,700,584 | 71.52\% | 58.19\% |
|  | North Sound | 1,509 | 1,246 | 1,100 | 88.20\% | 657 | 499 | 969,640 | 71.38\% | 62.96\% |
|  | Region 3 | 2,401 | 2,078 | 1,768 | 85.03\% | 1,164 | 901 | 1,875,809 | 73.28\% | 62.31\% |
|  | Peninsula | 407 | 337 | 301 | 88.58\% | 161 | 119 | 311,642 | 68.62\% | 60.78\% |
|  | Pierce | 959 | 819 | 691 | 84.49\% | 490 | 399 | 683,820 | 78.75\% | 66.54\% |
|  | SW WA and Timberlands | 740 | 681 | 574 | 84.27\% | 373 | 271 | 606,660 | 66.52\% | 56.06\% |
|  | Thurston-Mason | 295 | 241 | 202 | 84.08\% | 140 | 112 | 273,686 | 81.26\% | 68.32\% |
|  | West Virginia | 9,952 | 8,198 | 7,279 | 88.75\% | 3,751 | 2,825 | 1,582,742 | 72.65\% | 64.48\% |
|  | Region I | 634 | 560 | 496 | 88.82\% | 246 | 170 | 126,303 | 60.42\% | 53.67\% |
|  | Region II | 1,158 | 996 | 858 | 86.10\% | 480 | 372 | 223,427 | 74.41\% | 64.06\% |
|  | Region III | 808 | 699 | 615 | 87.86\% | 280 | 201 | 145,864 | 68.65\% | 60.32\% |
|  | Region IV | 2,229 | 1,852 | 1,645 | 88.47\% | 888 | 685 | 347,725 | 75.54\% | 66.83\% |
|  | Region V | 3,056 | 2,550 | 2,274 | 89.17\% | 1,119 | 820 | 450,354 | 71.22\% | 63.50\% |
|  | Region VI | 2,067 | 1,541 | 1,391 | 90.47\% | 738 | 577 | 289,068 | 76.10\% | 68.84\% |

See notes at end of table.

Table C1. Sample Sizes, Weighted Screening and Interview Response Rates, and Population Estimates, by Substate Region, for Individuals Aged 12 or Older: 2012, 2013, and 2014 (continued)

| State/Substate Region | Total <br> Selected DUs | Total Eligible DUs | Total Completed Screeners | Weighted DU <br> Screening <br> Response <br> Rate <br> (Percentage) | Total Selected | Total <br> Responded | Population Estimate | Weighted Interview Response Rate (Percentage) | Weighted Overall Response Rate (Percentage) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Wisconsin | 8,229 | 6,933 | 6,160 | 88.80\% | 3,575 | 2,687 | 4,810,496 | 72.98\% | 64.81\% |
| Milwaukee | 1,323 | 1,169 | 1,017 | 86.95\% | 641 | 468 | 777,283 | 69.49\% | 60.43\% |
| Northeastern | 1,789 | 1,495 | 1,326 | 88.60\% | 765 | 575 | 1,042,686 | 75.46\% | 66.86\% |
| Northern | 972 | 702 | 604 | 85.96\% | 303 | 228 | 416,255 | 75.10\% | 64.55\% |
| Southeastern | 1,511 | 1,358 | 1,202 | 88.51\% | 715 | 511 | 977,794 | 70.71\% | 62.58\% |
| Southern | 1,475 | 1,272 | 1,134 | 89.13\% | 660 | 515 | 938,374 | 74.09\% | 66.04\% |
| Western | 1,159 | 937 | 877 | 93.66\% | 491 | 390 | 658,104 | 73.85\% | 69.17\% |
| Wyoming | 9,391 | 7,259 | 6,569 | 90.38\% | 3,570 | 2,811 | 479,134 | 76.79\% | 69.40\% |
| Judicial District 1 (Laramie) | 1,579 | 1,361 | 1,208 | 88.71\% | 609 | 462 | 79,182 | 74.04\% | 65.68\% |
| Judicial District 2 | 1,010 | 683 | 628 | 91.86\% | 368 | 308 | 46,192 | 78.18\% | 71.82\% |
| Judicial District 3 | 1,460 | 1,028 | 981 | 95.33\% | 583 | 478 | 67,390 | 81.87\% | 78.05\% |
| Judicial District 4 | 701 | 536 | 469 | 87.38\% | 250 | 196 | 32,066 | 70.54\% | 61.64\% |
| Judicial District 5 | 685 | 545 | 475 | 86.62\% | 230 | 189 | 45,709 | 83.67\% | 72.47\% |
| Judicial District 6 | 935 | 776 | 709 | 91.48\% | 420 | 315 | 49,732 | 72.47\% | 66.30\% |
| Judicial District 7 (Natrona) | 892 | 786 | 700 | 89.11\% | 410 | 325 | 64,704 | 75.61\% | 67.38\% |
| Judicial District 8 | 915 | 733 | 675 | 92.06\% | 332 | 253 | 33,335 | 75.41\% | 69.43\% |
| Judicial District 9 | 1,214 | 811 | 724 | 88.99\% | 368 | 285 | 60,825 | 79.07\% | 70.37\% |

$\mathrm{DU}=$ dwelling unit; SPA $=$ service planning area.
NOTE: For substate region definitions, see the "2012-2014 National Survey on Drug Use and Health Substate Region Definitions" at http://www.samhsa.gov/data/.
NOTE: To compute the pooled 2012-2014 weighted response rates, the three samples were combined, and the individual-year weights were used for the pooled sample. Thus, the response rates presented here are weighted across 3 years of data rather than being a simple average of the 2012, 2013, and 2014 individual response rates.
NOTE: The total responded column represents the combined sample size from the 2012, 2013, and 2014 NSDUHs.
NOTE: The population estimate is the simple average of the 2012, 2013, and 2014 population counts for persons aged 12 or older. Because of rounding, the sum of the substate region population counts within a state may not exactly match the state population count listed in the table.
Source: SAMHSA, Center for Behavioral Health Statistics and Quality, National Survey on Drug Use and Health, 2012, 2013, and 2014.

Table C2. Sample Sizes, Weighted Interview Response Rates, and Population Estimates, by Substate Region, for Individuals Aged 12 to 20 and Adults Aged 18 or Older: 2012, 2013, and 2014 NSDUHs

| State/Substate Region | $\begin{gathered} \text { 12-20 } \\ \text { Total } \\ \text { Selected } \end{gathered}$ | $\begin{gathered} 12-20 \\ \text { Total } \\ \text { Responded } \\ \hline \end{gathered}$ | 12-20 <br> Population <br> Estimate | 12-20 <br> Weighted <br> Interview Response Rate (Percentage) | $\begin{gathered} 18+ \\ \text { Total } \\ \text { Selected } \end{gathered}$ | $\begin{gathered} 18+ \\ \text { Total } \\ \text { Responded } \end{gathered}$ | 18+ <br> Population <br> Estimate | 18+ <br> Weighted <br> Interview Response Rate (Percentage) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total United States | 104,160 | 84,746 | 38,119,368 | 81.31\% | 191,869 | 141,978 | 237,815,123 | 70.96\% |
| Northeast | 21,218 | 16,934 | 6,512,384 | 79.01\% | 39,392 | 28,175 | 43,215,107 | 67.62\% |
| Midwest | 27,903 | 22,483 | 8,167,441 | 80.00\% | 50,412 | 37,251 | 50,845,917 | 71.44\% |
| South | 32,337 | 26,621 | 14,080,628 | 82.14\% | 59,359 | 44,748 | 88,292,583 | 72.35\% |
| West | 22,702 | 18,708 | 9,358,915 | 82.79\% | 42,706 | 31,804 | 55,461,515 | 70.92\% |
| Alabama | 1,341 | 1,111 | 574,793 | 82.57\% | 2,568 | 1,934 | 3,663,979 | 70.76\% |
| Region 1 | 305 | 232 | 155,640 | 76.92\% | 619 | 455 | 1,033,386 | 68.16\% |
| Region 2 | 410 | 336 | 184,610 | 81.25\% | 815 | 589 | 1,173,788 | 68.72\% |
| Region 3 | 376 | 322 | 110,715 | 85.66\% | 590 | 475 | 650,749 | 75.61\% |
| Region 4 | 250 | 221 | 123,828 | 87.82\% | 544 | 415 | 806,056 | 72.14\% |
| Alaska | 1,398 | 1,065 | 92,936 | 75.88\% | 2,551 | 1,877 | 521,224 | 71.86\% |
| Anchorage | 573 | 440 | 37,968 | 77.30\% | 1,099 | 806 | 215,669 | 72.15\% |
| Northern | 318 | 234 | 22,276 | 70.90\% | 551 | 403 | 114,716 | 69.26\% |
| South Central | 360 | 272 | 24,285 | 76.64\% | 646 | 466 | 135,963 | 70.27\% |
| Southeast | 147 | 119 | 8,407 | 79.96\% | 255 | 202 | 54,877 | 79.93\% |
| Arizona | 1,404 | 1,160 | 809,966 | 82.48\% | 2,546 | 1,910 | 4,908,587 | 72.64\% |
| Maricopa | 882 | 730 | 493,252 | 82.99\% | 1,615 | 1,177 | 2,908,477 | 69.63\% |
| Pima | 193 | 161 | 118,807 | 81.79\% | 398 | 308 | 770,148 | 80.19\% |
| Rural North | 149 | 110 | 88,418 | 71.88\% | 222 | 167 | 565,487 | 70.49\% |
| Rural South | 180 | 159 | 109,490 | 89.62\% | 311 | 258 | 664,475 | 79.33\% |
| Arkansas | 1,412 | 1,124 | 352,319 | 79.08\% | 2,638 | 1,969 | 2,200,019 | 71.24\% |
| Catchment Area 1 | 255 | 207 | 64,364 | 82.28\% | 507 | 370 | 352,318 | 69.24\% |
| Catchment Area 2 | 122 | 93 | 37,333 | 76.90\% | 287 | 222 | 271,614 | 76.74\% |
| Catchment Area 3 | 217 | 173 | 48,480 | 78.10\% | 341 | 261 | 293,037 | 71.82\% |
| Catchment Area 4 | 144 | 124 | 32,026 | 87.86\% | 255 | 184 | 192,768 | 68.08\% |
| Catchment Area 5 | 190 | 149 | 53,652 | 77.47\% | 410 | 297 | 330,119 | 69.42\% |
| Catchment Area 6 | 95 | 82 | 24,711 | 83.95\% | 214 | 181 | 157,928 | 85.09\% |
| Catchment Area 7 | 137 | 110 | 27,022 | 80.27\% | 208 | 159 | 171,384 | 74.30\% |
| Catchment Area 8 | 252 | 186 | 64,730 | 71.44\% | 416 | 295 | 430,851 | 63.94\% |

See notes at end of table.
(continued)

Table C2. Sample Sizes, Weighted Interview Response Rates, and Population Estimates, by Substate Region, for Individuals Aged 12 to 20 and Adults Aged 18 or Older: 2012, 2013, and 2014 NSDUHs (continued)

| State/Substate Region | $\begin{gathered} \text { 12-20 } \\ \text { Total } \\ \text { Selected } \end{gathered}$ | $\begin{gathered} \begin{array}{c} 12-20 \\ \text { Total } \\ \text { Responded } \end{array} \\ \hline \end{gathered}$ | 12-20 <br> Population Estimate | 12-20 <br> Weighted <br> Interview Response Rate (Percentage) | $\begin{gathered} \text { 18+ } \\ \text { Total } \\ \text { Selected } \end{gathered}$ | 18+ <br> Total Responded | 18+ <br> Population Estimate | 18+ <br> Weighted <br> Interview <br> Response Rate <br> (Percentage) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| California | 6,027 | 4,983 | 4,980,281 | 82.53\% | 11,774 | 8,464 | 28,688,457 | 68.80\% |
| Region 1R | 157 | 127 | 115,230 | 78.56\% | 282 | 221 | 744,769 | 75.14\% |
| Region 2R | 180 | 147 | 135,097 | 83.50\% | 297 | 225 | 777,854 | 71.36\% |
| Region 3R (Sacramento) | 185 | 152 | 185,633 | 78.64\% | 399 | 312 | 1,083,281 | 78.30\% |
| Region 4R | 256 | 205 | 153,980 | 79.86\% | 482 | 372 | 1,009,809 | 78.74\% |
| Region 5R (San Francisco) | 74 | 63 | 58,844 | 84.11\% | 264 | 175 | 713,281 | 56.95\% |
| Region 6 (Santa Clara) | 212 | 174 | 215,073 | 81.84\% | 522 | 372 | 1,393,058 | 65.72\% |
| Region 7R (Contra Costa) | 158 | 130 | 136,022 | 80.22\% | 338 | 246 | 815,822 | 71.35\% |
| Region 8R (Alameda) | 196 | 163 | 180,548 | 85.35\% | 515 | 371 | 1,198,818 | 68.83\% |
| Region 9R (San Mateo) | 100 | 85 | 77,266 | 85.87\% | 249 | 174 | 569,928 | 62.47\% |
| Region 10 | 227 | 169 | 177,020 | 73.32\% | 408 | 279 | 957,493 | 62.73\% |
| Region 11 (Los Angeles) | 1,603 | 1,309 | 1,289,339 | 80.56\% | 3,279 | 2,257 | 7,553,191 | 66.03\% |
| LA SPA 1 and 5 | 125 | 107 | 129,907 | 87.02\% | 282 | 192 | 822,243 | 66.59\% |
| LA SPA 2 | 372 | 306 | 265,950 | 81.15\% | 695 | 466 | 1,665,774 | 64.25\% |
| LA SPA 3 | 279 | 207 | 229,849 | 72.66\% | 540 | 359 | 1,348,424 | 65.39\% |
| LA SPA 4 | 129 | 105 | 116,414 | 78.89\% | 383 | 252 | 907,093 | 64.42\% |
| LA SPA 6 | 170 | 145 | 163,130 | 84.32\% | 311 | 221 | 702,729 | 65.87\% |
| LA SPA 7 | 274 | 231 | 190,582 | 82.80\% | 504 | 362 | 944,015 | 67.23\% |
| LA SPA 8 | 254 | 208 | 193,505 | 81.13\% | 564 | 405 | 1,162,914 | 68.76\% |
| Region 12R | 113 | 93 | 120,358 | 85.30\% | 172 | 127 | 625,135 | 67.03\% |
| Regions 13 and 19R | 492 | 419 | 365,434 | 85.96\% | 729 | 552 | 1,774,072 | 72.66\% |
| Region 14 (Orange) | 469 | 392 | 402,287 | 83.63\% | 953 | 644 | 2,356,009 | 64.55\% |
| Region 15R (Fresno) | 164 | 140 | 143,653 | 85.50\% | 319 | 241 | 673,696 | 75.47\% |
| Region 16R (San Diego) | 460 | 388 | 402,281 | 83.89\% | 909 | 660 | 2,442,309 | 69.38\% |
| Region 17R | 339 | 278 | 221,581 | 82.13\% | 471 | 352 | 1,040,107 | 73.95\% |
| Region 18R (San Bernardino) | 349 | 300 | 318,118 | 87.31\% | 618 | 462 | 1,491,700 | 73.55\% |
| Region 20R | 190 | 165 | 142,522 | 87.40\% | 311 | 236 | 682,632 | 67.59\% |
| Region 21R | 103 | 84 | 139,997 | 83.43\% | 257 | 186 | 785,491 | 66.82\% |

See notes at end of table.
(continued)

Table C2. Sample Sizes, Weighted Interview Response Rates, and Population Estimates, by Substate Region, for Individuals Aged 12 to 20 and Adults Aged 18 or Older: 2012, 2013, and 2014 NSDUHs (continued)

| State/Substate Region | $\begin{gathered} \text { 12-20 } \\ \text { Total } \\ \text { Selected } \\ \hline \end{gathered}$ | $\begin{gathered} \text { 12-20 } \\ \text { Total } \\ \text { Responded } \\ \hline \end{gathered}$ | 12-20 <br> Population <br> Estimate | 12-20 <br> Weighted <br> Interview Response Rate (Percentage) | $\begin{gathered} \text { 18+ } \\ \text { Total } \\ \text { Selected } \end{gathered}$ | $\begin{gathered} \text { 18+ } \\ \text { Total } \\ \text { Responded } \\ \hline \end{gathered}$ | 18+ <br> Population <br> Estimate | 18+ <br> Weighted Interview Response Rate (Percentage) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Colorado | 1,408 | 1,153 | 610,116 | 82.60\% | 2,698 | 1,986 | 3,952,890 | 72.10\% |
| Region 1 | 157 | 115 | 88,152 | 72.15\% | 328 | 245 | 521,941 | 75.87\% |
| Regions 2 and 7 | 792 | 658 | 333,695 | 84.17\% | 1,469 | 1,073 | 2,214,402 | 71.80\% |
| Region 3 | 237 | 200 | 94,650 | 85.31\% | 452 | 346 | 581,345 | 71.42\% |
| Region 4 | 95 | 85 | 33,809 | 88.45\% | 161 | 123 | 211,284 | 76.57\% |
| Regions 5 and 6 | 127 | 95 | 59,809 | 76.17\% | 288 | 199 | 423,918 | 67.57\% |
| Connecticut | 1,503 | 1,201 | 438,656 | 80.47\% | 2,810 | 1,977 | 2,757,464 | 68.14\% |
| Eastern | 204 | 175 | 58,926 | 87.02\% | 422 | 322 | 341,160 | 73.42\% |
| North Central | 427 | 337 | 119,098 | 79.65\% | 757 | 528 | 772,148 | 66.77\% |
| Northwestern | 271 | 221 | 74,616 | 83.58\% | 468 | 312 | 473,950 | 64.57\% |
| South Central | 346 | 276 | 99,984 | 81.38\% | 678 | 489 | 650,631 | 72.33\% |
| Southwest | 255 | 192 | 86,032 | 72.84\% | 485 | 326 | 519,575 | 64.25\% |
| Delaware | 1,397 | 1,144 | 105,479 | 81.75\% | 2,447 | 1,854 | 709,231 | 74.81\% |
| Kent | 302 | 242 | 20,743 | 78.80\% | 494 | 377 | 126,396 | 73.44\% |
| New Castle (excluding Wilmington City) | 744 | 601 | 57,534 | 80.61\% | 1,313 | 984 | 363,974 | 74.65\% |
| Sussex | 257 | 219 | 18,843 | 86.47\% | 488 | 369 | 161,718 | 73.28\% |
| Wilmington City | 94 | 82 | 8,359 | 87.61\% | 152 | 124 | 57,143 | 87.25\% |
| District of Columbia | 1,292 | 1,133 | 57,432 | 87.75\% | 2,477 | 1,915 | 523,865 | 75.59\% |
| Ward 1 | 116 | 104 | 6,673 | 93.51\% | 354 | 271 | 67,110 | 70.34\% |
| Ward 2 | 103 | 89 | 5,935 | 86.58\% | 280 | 218 | 72,780 | 79.77\% |
| Ward 3 | 127 | 103 | 5,426 | 77.84\% | 343 | 265 | 69,420 | 78.28\% |
| Ward 4 | 176 | 151 | 6,651 | 85.99\% | 303 | 217 | 64,027 | 68.67\% |
| Ward 5 | 206 | 183 | 7,746 | 88.48\% | 361 | 269 | 65,600 | 73.92\% |
| Ward 6 | 111 | 99 | 4,319 | 86.03\% | 347 | 264 | 70,224 | 74.19\% |
| Ward 7 | 157 | 143 | 9,603 | 92.48\% | 185 | 161 | 58,182 | 86.80\% |
| Ward 8 | 296 | 261 | 11,079 | 88.72\% | 304 | 250 | 56,522 | 79.54\% |

See notes at end of table.
(continued)

Table C2. Sample Sizes, Weighted Interview Response Rates, and Population Estimates, by Substate Region, for Individuals Aged 12 to 20 and Adults Aged 18 or Older: 2012, 2013, and 2014 NSDUHs (continued)

| State/Substate Region | $\begin{gathered} \text { 12-20 } \\ \text { Total } \\ \text { Selected } \end{gathered}$ | $\begin{gathered} \text { 12-20 } \\ \text { Total } \\ \text { Responded } \\ \hline \end{gathered}$ | 12-20 <br> Population Estimate | 12-20 <br> Weighted <br> Interview <br> Response Rate (Percentage) | $\begin{gathered} \text { 18+ } \\ \text { Total } \\ \text { Selected } \end{gathered}$ | 18+ <br> Total <br> Responded | 18+ <br> Population <br> Estimate | 18+ <br> Weighted Interview Response Rate (Percentage) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Florida | 5,299 | 4,363 | 2,092,834 | 82.19\% | 9,870 | 7,306 | 15,244,962 | 69.75\% |
| Broward (Circuit 17) | 435 | 360 | 195,904 | 83.52\% | 782 | 588 | 1,399,241 | 72.85\% |
| Central I | 830 | 681 | 294,041 | 81.88\% | 1,475 | 1,086 | 1,899,753 | 68.44\% |
| Circuit 9 | 535 | 450 | 184,932 | 84.11\% | 943 | 728 | 1,121,864 | 73.56\% |
| Circuit 18 | 295 | 231 | 109,108 | 77.78\% | 532 | 358 | 777,889 | 62.03\% |
| Central II | 1,335 | 1,102 | 553,444 | 81.70\% | 2,495 | 1,829 | 4,280,251 | 69.89\% |
| Circuit 6 | 345 | 281 | 134,224 | 80.69\% | 615 | 432 | 1,136,991 | 67.19\% |
| Circuit 10 | 233 | 189 | 83,377 | 82.11\% | 353 | 276 | 573,539 | 75.36\% |
| Circuit 12 | 163 | 128 | 68,987 | 77.57\% | 376 | 261 | 620,143 | 68.39\% |
| Circuit 13 (Hillsborough) | 370 | 313 | 154,192 | 83.72\% | 709 | 540 | 983,526 | 72.83\% |
| Circuit 20 | 224 | 191 | 112,665 | 82.59\% | 442 | 320 | 966,053 | 67.88\% |
| Northeast | 1,014 | 816 | 390,397 | 79.63\% | 1,869 | 1,354 | 2,866,045 | 68.39\% |
| Circuit 4 | 287 | 236 | 132,579 | 82.49\% | 558 | 401 | 873,523 | 69.18\% |
| Circuit 5 | 280 | 231 | 97,652 | 80.98\% | 469 | 350 | 866,597 | 70.51\% |
| Circuit 7 | 252 | 206 | 93,805 | 81.57\% | 492 | 341 | 700,237 | 62.66\% |
| Circuit 8 plus Columbia, Dixie, Hamilton, Lafayette, and Suwannee | 195 | 143 | 66,361 | 70.71\% | 350 | 262 | 425,688 | 74.02\% |
| Northwest | 378 | 308 | 170,611 | 83.53\% | 737 | 570 | 1,132,870 | 73.32\% |
| Circuit 1 | 176 | 138 | 82,028 | 78.59\% | 312 | 219 | 549,058 | 65.07\% |
| Circuit 2 plus Madison and Taylor | 137 | 120 | 57,444 | 91.52\% | 289 | 242 | 349,303 | 80.66\% |
| Circuit 14 | 65 | 50 | 31,138 | 78.33\% | 136 | 109 | 234,509 | 75.66\% |
| South (Circuits 11 and 16) | 766 | 658 | 288,055 | 86.82\% | 1,435 | 1,109 | 2,097,732 | 73.05\% |
| Southeast | 541 | 438 | 200,383 | 80.64\% | 1,077 | 770 | 1,569,071 | 65.44\% |
| Circuit 15 (Palm Beach) | 395 | 318 | 137,395 | 79.77\% | 782 | 546 | 1,078,349 | 63.33\% |
| Circuit 19 | 146 | 120 | 62,988 | 83.37\% | 295 | 224 | 490,722 | 71.22\% |
| Georgia | 1,611 | 1,308 | 1,268,845 | 81.47\% | 3,101 | 2,341 | 7,316,745 | 72.65\% |
| Region 1 | 393 | 313 | 325,139 | 80.53\% | 726 | 530 | 1,874,488 | 72.38\% |
| Region 2 | 231 | 186 | 167,580 | 80.31\% | 466 | 356 | 949,652 | 73.90\% |
| Region 3 | 526 | 427 | 364,507 | 81.77\% | 1,002 | 734 | 2,185,513 | 70.37\% |
| Region 4 | 116 | 93 | 81,766 | 76.07\% | 224 | 177 | 455,203 | 73.31\% |
| Region 5 | 117 | 102 | 144,719 | 88.56\% | 288 | 230 | 835,534 | 73.94\% |
| Region 6 | 228 | 187 | 185,133 | 82.78\% | 395 | 314 | 1,016,355 | 76.10\% |

See notes at end of table.
(continued)

Table C2. Sample Sizes, Weighted Interview Response Rates, and Population Estimates, by Substate Region, for Individuals Aged 12 to 20 and Adults Aged 18 or Older: 2012, 2013, and 2014 NSDUHs (continued)

| State/Substate Region | $\begin{gathered} \text { 12-20 } \\ \text { Total } \\ \text { Selected } \end{gathered}$ | $\begin{gathered} \text { 12-20 } \\ \text { Total } \\ \text { Responded } \\ \hline \end{gathered}$ | 12-20 <br> Population <br> Estimate | 12-20 <br> Weighted <br> Interview Response Rate (Percentage) | $\begin{gathered} \text { 18+ } \\ \text { Total } \\ \text { Selected } \end{gathered}$ | 18+ <br> Total Responded | 18+ <br> Population <br> Estimate | 18+ <br> Weighted <br> Interview Response Rate (Percentage) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Hawaii | 1,406 | 1,121 | 147,189 | 80.19\% | 2,807 | 1,991 | 1,048,507 | 68.14\% |
| Hawaii Island | 188 | 153 | 20,051 | 81.64\% | 350 | 254 | 140,541 | 69.12\% |
| Honolulu | 931 | 732 | 103,868 | 79.43\% | 1,883 | 1,315 | 738,904 | 66.95\% |
| Kauai | 122 | 102 | 6,939 | 85.54\% | 199 | 151 | 51,085 | 76.26\% |
| Maui | 165 | 134 | 16,332 | 79.67\% | 375 | 271 | 117,976 | 69.57\% |
| Idaho | 1,401 | 1,168 | 209,051 | 83.60\% | 2,564 | 1,957 | 1,168,987 | 75.25\% |
| Region 1 | 162 | 130 | 25,696 | 80.96\% | 325 | 240 | 166,188 | 75.85\% |
| Region 2 | 80 | 62 | 13,683 | 76.86\% | 170 | 127 | 85,384 | 70.85\% |
| Region 3 | 266 | 223 | 36,161 | 84.93\% | 436 | 327 | 182,126 | 69.83\% |
| Region 4 | 332 | 285 | 55,911 | 86.21\% | 701 | 544 | 335,312 | 75.30\% |
| Region 5 | 229 | 188 | 24,714 | 79.59\% | 321 | 240 | 134,420 | 76.26\% |
| Region 6 | 100 | 81 | 16,208 | 83.18\% | 198 | 148 | 87,108 | 77.69\% |
| Region 7 | 232 | 199 | 36,678 | 85.97\% | 413 | 331 | 178,449 | 80.15\% |
| Illinois | 5,100 | 3,985 | 1,562,197 | 78.10\% | 9,568 | 6,635 | 9,671,148 | 66.93\% |
| Region I (Cook) | 1,805 | 1,399 | 599,958 | 77.24\% | 3,668 | 2,464 | 3,959,568 | 66.25\% |
| Region II | 1,873 | 1,460 | 537,681 | 78.15\% | 3,122 | 2,160 | 3,002,794 | 66.51\% |
| Region III | 611 | 484 | 182,831 | 79.36\% | 1,172 | 855 | 1,105,771 | 69.26\% |
| Region IV | 377 | 284 | 104,606 | 75.93\% | 742 | 525 | 688,792 | 68.21\% |
| Region V | 434 | 358 | 137,120 | 82.00\% | 864 | 631 | 914,223 | 67.37\% |
| Indiana | 1,390 | 1,112 | 805,744 | 79.10\% | 2,620 | 1,960 | 4,891,833 | 71.42\% |
| Central | 301 | 225 | 207,789 | 73.09\% | 638 | 460 | 1,279,161 | 66.74\% |
| East | 126 | 98 | 68,097 | 78.33\% | 287 | 207 | 418,235 | 70.87\% |
| North Central | 234 | 194 | 114,701 | 80.03\% | 431 | 334 | 688,476 | 78.08\% |
| Northeast | 139 | 111 | 82,735 | 80.48\% | 235 | 175 | 476,675 | 72.79\% |
| Northwest | 170 | 138 | 91,531 | 79.91\% | 306 | 229 | 554,496 | 72.50\% |
| Southeast | 155 | 129 | 81,532 | 83.57\% | 256 | 193 | 526,227 | 67.58\% |
| Southwest | 107 | 92 | 60,030 | 86.45\% | 205 | 153 | 386,336 | 69.58\% |
| West | 158 | 125 | 99,331 | 77.93\% | 262 | 209 | 562,228 | 74.51\% |

See notes at end of table.
(continued)

Table C2. Sample Sizes, Weighted Interview Response Rates, and Population Estimates, by Substate Region, for Individuals Aged 12 to 20 and Adults Aged 18 or Older: 2012, 2013, and 2014 NSDUHs (continued)

| State/Substate Region | $\begin{gathered} \text { 12-20 } \\ \text { Total } \\ \text { Selected } \end{gathered}$ | $\begin{gathered} \text { 12-20 } \\ \text { Total } \\ \text { Responded } \\ \hline \end{gathered}$ | 12-20 <br> Population <br> Estimate | 12-20 <br> Weighted <br> Interview Response Rate (Percentage) |  | $\begin{gathered} \text { 18+ } \\ \text { Total } \\ \text { Responded } \\ \hline \end{gathered}$ | 18+ <br> Population <br> Estimate | 18+ <br> Weighted Interview Response Rate (Percentage) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Iowa | 1,364 | 1,105 | 376,485 | 80.21\% | 2,543 | 1,908 | 2,331,516 | 71.81\% |
| Central | 262 | 212 | 66,819 | 77.48\% | 462 | 324 | 418,051 | 68.71\% |
| North Central | 158 | 128 | 45,576 | 82.47\% | 273 | 213 | 261,694 | 75.67\% |
| Northeast | 303 | 240 | 91,562 | 77.50\% | 637 | 481 | 567,910 | 72.28\% |
| Northwest | 198 | 174 | 57,333 | 90.37\% | 330 | 250 | 355,324 | 71.75\% |
| Southeast | 307 | 243 | 78,823 | 75.60\% | 519 | 393 | 496,432 | 69.86\% |
| Southwest | 136 | 108 | 36,372 | 82.96\% | 322 | 247 | 232,104 | 75.77\% |
| Kansas | 1,398 | 1,154 | 360,624 | 82.42\% | 2,538 | 1,929 | 2,111,849 | 74.10\% |
| Kansas City Metro | 500 | 397 | 119,069 | 78.88\% | 850 | 640 | 709,882 | 74.70\% |
| Northeast | 207 | 173 | 70,186 | 83.32\% | 491 | 375 | 409,624 | 71.64\% |
| South Central | 225 | 188 | 44,976 | 83.87\% | 362 | 282 | 262,360 | 78.20\% |
| Southeast | 89 | 74 | 23,858 | 84.57\% | 151 | 114 | 142,077 | 68.79\% |
| West | 121 | 106 | 40,187 | 87.34\% | 252 | 179 | 228,432 | 68.00\% |
| Wichita (Sedgwick) | 256 | 216 | 62,348 | 84.51\% | 432 | 339 | 359,474 | 77.74\% |
| Kentucky | 1,441 | 1,176 | 517,498 | 81.23\% | 2,559 | 1,902 | 3,294,920 | 71.07\% |
| Adanta, Cumberland River, and Lifeskills | 226 | 179 | 88,471 | 78.29\% | 413 | 318 | 553,262 | 76.05\% |
| Bluegrass, Comprehend, and North Key | 430 | 347 | 156,418 | 80.25\% | 809 | 590 | 964,590 | 69.71\% |
| Communicare and River Valley | 176 | 143 | 58,902 | 81.62\% | 314 | 220 | 363,284 | 66.22\% |
| Four Rivers and Pennyroyal | 117 | 96 | 47,520 | 82.32\% | 214 | 160 | 312,746 | 73.35\% |
| Kentucky River, Mountain, and Pathways | 133 | 117 | 54,925 | 87.56\% | 262 | 195 | 371,879 | 68.69\% |
| Seven Counties | 359 | 294 | 111,261 | 81.61\% | 547 | 419 | 729,160 | 72.69\% |

See notes at end of table.
(continued)

Table C2. Sample Sizes, Weighted Interview Response Rates, and Population Estimates, by Substate Region, for Individuals Aged 12 to 20 and Adults Aged 18 or Older: 2012, 2013, and 2014 NSDUHs (continued)

| State/Substate Region | $\begin{gathered} \text { 12-20 } \\ \text { Total } \\ \text { Selected } \end{gathered}$ | $\begin{gathered} \text { 12-20 } \\ \text { Total } \\ \text { Responded } \\ \hline \end{gathered}$ | 12-20 <br> Population <br> Estimate | 12-20 <br> Weighted <br> Interview Response Rate (Percentage) |  | 18+ <br> Total <br> Responded | 18+ <br> Population <br> Estimate | 18+ <br> Weighted <br> Interview Response Rate (Percentage) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Louisiana | 1,395 | 1,173 | 574,987 | 83.43\% | 2,550 | 1,952 | 3,405,070 | 73.90\% |
| Regions 1 and 10 | 214 | 179 | 98,913 | 80.00\% | 496 | 359 | 665,793 | 70.69\% |
| Region 1 | 89 | 76 | 52,326 | 82.54\% | 196 | 144 | 340,233 | 78.22\% |
| Region 10 (Jefferson) | 125 | 103 | 46,587 | 78.30\% | 300 | 215 | 325,560 | 66.79\% |
| Regions 2 and 9 | 435 | 365 | 157,519 | 83.25\% | 750 | 592 | 901,628 | 77.53\% |
| Region 3 | 148 | 117 | 51,559 | 80.46\% | 207 | 157 | 293,967 | 74.40\% |
| Regions 4, 5, and 6 | 323 | 266 | 150,915 | 81.41\% | 609 | 449 | 872,660 | 70.01\% |
| Regions 7 and 8 | 275 | 246 | 116,082 | 90.65\% | 488 | 395 | 671,023 | 76.68\% |
| Maine | 1,392 | 1,162 | 145,270 | 82.81\% | 2,482 | 1,975 | 1,057,570 | 77.20\% |
| Aroostook/Downeast | 157 | 130 | 16,252 | 84.77\% | 271 | 227 | 127,118 | 82.34\% |
| Aroostook | 91 | 81 | 7,625 | 88.11\% | 160 | 145 | 56,743 | 89.36\% |
| Downeast | 66 | 49 | 8,627 | 80.05\% | 111 | 82 | 70,375 | 73.67\% |
| Central | 182 | 152 | 18,909 | 84.33\% | 324 | 262 | 137,358 | 80.21\% |
| Cumberland | 320 | 260 | 31,579 | 77.65\% | 580 | 435 | 226,494 | 73.59\% |
| Midcoast | 90 | 83 | 14,526 | 91.76\% | 212 | 177 | 117,872 | 84.02\% |
| Penquis | 190 | 160 | 20,442 | 82.33\% | 333 | 282 | 137,197 | 80.62\% |
| Western | 228 | 194 | 22,053 | 84.55\% | 367 | 307 | 153,929 | 79.36\% |
| York | 225 | 183 | 21,508 | 82.93\% | 395 | 285 | 157,603 | 66.15\% |
| Maryland | 1,377 | 1,118 | 664,412 | 80.35\% | 2,519 | 1,924 | 4,490,598 | 74.22\% |
| Anne Arundel | 155 | 124 | 60,580 | 78.95\% | 236 | 183 | 422,356 | 73.96\% |
| Baltimore City | 132 | 120 | 64,746 | 87.46\% | 334 | 273 | 481,314 | 83.76\% |
| Baltimore County | 161 | 117 | 90,244 | 72.14\% | 310 | 228 | 634,067 | 74.59\% |
| Montgomery | 212 | 174 | 102,652 | 83.38\% | 374 | 284 | 758,355 | 73.85\% |
| North Central | 100 | 87 | 57,300 | 86.17\% | 164 | 124 | 350,403 | 76.30\% |
| Northeast | 132 | 108 | 58,062 | 81.34\% | 224 | 165 | 374,855 | 64.94\% |
| Prince George's | 169 | 124 | 102,304 | 72.69\% | 383 | 275 | 662,200 | 68.46\% |
| South | 153 | 137 | 70,306 | 90.34\% | 249 | 201 | 427,589 | 76.14\% |
| West | 163 | 127 | 58,218 | 78.00\% | 245 | 191 | 379,457 | 75.60\% |

See notes at end of table.
(continued)

Table C2. Sample Sizes, Weighted Interview Response Rates, and Population Estimates, by Substate Region, for Individuals Aged 12 to 20 and Adults Aged 18 or Older: 2012, 2013, and 2014 NSDUHs (continued)

| State/Substate Region | $\begin{gathered} \text { 12-20 } \\ \text { Total } \\ \text { Selected } \end{gathered}$ | $\begin{gathered} \text { 12-20 } \\ \text { Total } \\ \text { Responded } \\ \hline \end{gathered}$ | 12-20 <br> Population Estimate | 12-20 <br> Weighted Interview Response Rate (Percentage) | $\begin{gathered} \text { 18+ } \\ \text { Total } \\ \text { Selected } \end{gathered}$ | 18+ <br> Total Responded | 18+ <br> Population Estimate | 18+ <br> Weighted <br> Interview <br> Response Rate (Percentage) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Massachusetts | 1,508 | 1,200 | 782,267 | 79.36\% | 2,842 | 1,990 | 5,223,941 | 68.20\% |
| Boston | 150 | 112 | 95,009 | 74.21\% | 443 | 310 | 668,386 | 68.09\% |
| Central | 195 | 146 | 107,491 | 75.25\% | 333 | 214 | 665,374 | 62.93\% |
| Metrowest | 263 | 208 | 174,380 | 80.31\% | 520 | 357 | 1,207,726 | 67.16\% |
| Northeast | 336 | 281 | 152,156 | 83.69\% | 580 | 417 | 1,018,681 | 68.37\% |
| Southeast | 305 | 233 | 142,882 | 75.15\% | 576 | 383 | 1,001,184 | 66.64\% |
| Western | 259 | 220 | 110,348 | 84.39\% | 390 | 309 | 662,591 | 77.54\% |
| Michigan | 5,061 | 4,078 | 1,223,572 | 79.85\% | 8,889 | 6,740 | 7,544,403 | 72.47\% |
| Region 1 | 153 | 138 | 35,390 | 89.62\% | 280 | 231 | 250,499 | 80.28\% |
| Region 2 | 188 | 132 | 52,904 | 66.84\% | 321 | 248 | 400,863 | 77.66\% |
| Region 3 | 663 | 548 | 160,133 | 82.54\% | 1,138 | 893 | 915,546 | 75.19\% |
| Region 4 | 450 | 379 | 103,771 | 83.79\% | 789 | 607 | 638,370 | 74.75\% |
| Region 5 | 747 | 624 | 216,428 | 83.87\% | 1,486 | 1,208 | 1,276,129 | 78.91\% |
| Region 6 | 467 | 386 | 104,461 | 82.05\% | 861 | 660 | 608,005 | 72.99\% |
| Region 7 | 842 | 669 | 224,967 | 79.39\% | 1,463 | 1,089 | 1,329,957 | 68.09\% |
| Region 8 | 640 | 494 | 141,735 | 76.61\% | 999 | 708 | 937,373 | 69.11\% |
| Region 9 | 476 | 358 | 96,285 | 74.42\% | 827 | 571 | 651,472 | 65.69\% |
| Region 10 | 435 | 350 | 87,497 | 77.61\% | 725 | 525 | 536,189 | 69.09\% |
| Minnesota | 1,350 | 1,145 | 634,874 | 84.68\% | 2,477 | 1,912 | 4,093,708 | 77.10\% |
| Regions 1 and 2 | 118 | 88 | 60,648 | 78.20\% | 227 | 168 | 414,929 | 69.41\% |
| Regions 3 and 4 | 201 | 175 | 112,158 | 87.54\% | 361 | 294 | 697,366 | 83.96\% |
| Regions 5 and 6 | 238 | 198 | 121,304 | 81.94\% | 454 | 336 | 767,548 | 70.78\% |
| Region 7A (Hennepin) | 249 | 212 | 127,780 | 86.51\% | 547 | 425 | 917,410 | 80.13\% |
| Region 7B (Ramsey) | 139 | 127 | 63,220 | 90.76\% | 242 | 197 | 401,071 | 80.28\% |
| Region 7C | 405 | 345 | 149,764 | 83.22\% | 646 | 492 | 895,383 | 77.03\% |

See notes at end of table.
(continued)

Table C2. Sample Sizes, Weighted Interview Response Rates, and Population Estimates, by Substate Region, for Individuals Aged 12 to 20 and Adults Aged 18 or Older: 2012, 2013, and 2014 NSDUHs (continued)

| State/Substate Region | $\begin{gathered} \text { 12-20 } \\ \text { Total } \\ \text { Selected } \end{gathered}$ | $\begin{gathered} \text { 12-20 } \\ \text { Total } \\ \text { Responded } \\ \hline \end{gathered}$ | 12-20 <br> Population Estimate | 12-20 <br> Weighted <br> Interview <br> Response Rate (Percentage) |  | $\begin{gathered} \text { 18+ } \\ \text { Total } \\ \text { Responded } \end{gathered}$ | 18+ <br> Population Estimate | 18+ <br> Weighted Interview Response Rate (Percentage) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Mississippi | 1,367 | 1,165 | 374,676 | 85.43\% | 2,335 | 1,862 | 2,184,218 | 77.33\% |
| Region 1 | 305 | 266 | 88,001 | 88.31\% | 503 | 419 | 494,304 | 82.04\% |
| Region 2 | 168 | 146 | 45,448 | 87.87\% | 302 | 241 | 270,315 | 73.80\% |
| Region 3 | 205 | 184 | 54,742 | 88.24\% | 377 | 306 | 307,535 | 77.93\% |
| Region 4 | 227 | 180 | 68,432 | 78.59\% | 378 | 288 | 400,607 | 74.10\% |
| Region 5 | 58 | 43 | 21,163 | 78.12\% | 118 | 89 | 133,781 | 74.21\% |
| Region 6 | 198 | 174 | 38,159 | 88.82\% | 340 | 280 | 226,620 | 79.18\% |
| Region 7 | 206 | 172 | 58,732 | 83.71\% | 317 | 239 | 351,055 | 75.69\% |
| Missouri | 1,358 | 1,123 | 703,170 | 82.32\% | 2,529 | 1,913 | 4,537,760 | 73.44\% |
| Central | 203 | 173 | 102,483 | 84.98\% | 411 | 316 | 619,647 | 74.18\% |
| Eastern | 464 | 382 | 240,646 | 81.56\% | 903 | 668 | 1,574,889 | 70.75\% |
| Eastern (St. Louis City and County) | 284 | 230 | 147,370 | 81.47\% | 539 | 401 | 998,801 | 70.46\% |
| Eastern (excluding St. Louis) | 180 | 152 | 93,276 | 81.71\% | 364 | 267 | 576,087 | 71.17\% |
| Northwest | 301 | 253 | 169,079 | 83.03\% | 578 | 449 | 1,095,401 | 77.25\% |
| Northwest (Jackson) | 167 | 146 | 74,140 | 85.69\% | 316 | 247 | 502,397 | 78.09\% |
| Northwest (excluding Jackson) | 134 | 107 | 94,939 | 79.74\% | 262 | 202 | 593,004 | 76.30\% |
| Southeast | 199 | 162 | 82,010 | 81.38\% | 300 | 228 | 540,963 | 74.57\% |
| Southwest | 191 | 153 | 108,952 | 81.42\% | 337 | 252 | 706,860 | 72.93\% |
| Montana | 1,457 | 1,176 | 117,946 | 80.98\% | 2,507 | 1,911 | 780,158 | 74.14\% |
| Region 1 | 117 | 97 | 9,385 | 81.52\% | 148 | 121 | 60,830 | 86.39\% |
| Region 2 | 188 | 163 | 17,648 | 87.77\% | 366 | 300 | 109,284 | 82.19\% |
| Region 3 | 334 | 274 | 23,978 | 81.74\% | 574 | 435 | 160,458 | 74.43\% |
| Region 4 | 344 | 257 | 31,306 | 76.01\% | 601 | 452 | 208,544 | 72.45\% |
| Region 5 | 474 | 385 | 35,628 | 81.24\% | 818 | 603 | 241,042 | 68.73\% |
| Nebraska | 1,419 | 1,180 | 229,797 | 82.63\% | 2,566 | 1,947 | 1,385,174 | 72.62\% |
| Regions 1 and 2 | 166 | 137 | 22,699 | 83.02\% | 240 | 172 | 141,371 | 66.45\% |
| Region 1 | 94 | 80 | 10,592 | 85.53\% | 144 | 104 | 66,422 | 67.69\% |
| Region 2 | 72 | 57 | 12,107 | 80.12\% | 96 | 68 | 74,949 | 64.00\% |
| Region 3 | 201 | 179 | 28,388 | 88.43\% | 363 | 292 | 169,893 | 77.33\% |
| Region 4 | 131 | 108 | 25,973 | 78.06\% | 206 | 154 | 153,104 | 72.36\% |
| Region 5 | 372 | 311 | 56,452 | 83.62\% | 690 | 539 | 345,998 | 71.82\% |
| Region 6 | 549 | 445 | 96,284 | 81.06\% | 1,067 | 790 | 574,808 | 73.07\% |

See notes at end of table.

[^9]Table C2. Sample Sizes, Weighted Interview Response Rates, and Population Estimates, by Substate Region, for Individuals Aged 12 to 20 and Adults Aged 18 or Older: 2012, 2013, and 2014 NSDUHs (continued)

| State/Substate Region | $\begin{gathered} \text { 12-20 } \\ \text { Total } \\ \text { Selected } \end{gathered}$ | $\begin{gathered} \text { 12-20 } \\ \text { Total } \\ \text { Responded } \\ \hline \end{gathered}$ | 12-20 <br> Population Estimate | 12-20 <br> Weighted <br> Interview Response Rate (Percentage) |  | $\begin{gathered} \text { 18+ } \\ \text { Total } \\ \text { Responded } \end{gathered}$ | 18+ <br> Population Estimate | 18+ <br> Weighted <br> Interview Response Rate (Percentage) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Nevada | 1,346 | 1,154 | 339,747 | 86.15\% | 2,592 | 1,972 | 2,095,504 | 73.08\% |
| Clark - Region 1 | 888 | 775 | 246,185 | 87.66\% | 1,761 | 1,344 | 1,506,486 | 73.12\% |
| Region 3 | 173 | 133 | 39,964 | 78.00\% | 313 | 226 | 258,414 | 72.61\% |
| Capital District | 68 | 52 | 17,924 | 77.02\% | 122 | 87 | 123,581 | 70.96\% |
| Rural/Frontier | 105 | 81 | 22,040 | 78.50\% | 191 | 139 | 134,833 | 73.90\% |
| Washoe - Region 2 | 285 | 246 | 53,598 | 86.31\% | 518 | 402 | 330,603 | 73.27\% |
| New Hampshire | 1,597 | 1,251 | 167,083 | 79.22\% | 2,654 | 1,968 | 1,041,444 | 72.17\% |
| Central | 513 | 429 | 48,867 | 85.03\% | 868 | 674 | 297,358 | 73.92\% |
| Central 1 | 313 | 268 | 25,768 | 87.29\% | 444 | 344 | 147,376 | 71.70\% |
| Central 2 | 200 | 161 | 23,098 | 80.81\% | 424 | 330 | 149,982 | 76.14\% |
| Northern | 205 | 159 | 21,158 | 78.85\% | 307 | 237 | 137,687 | 76.90\% |
| Southern | 879 | 663 | 97,059 | 75.56\% | 1,479 | 1,057 | 606,399 | 70.40\% |
| Southern 1 (Rockingham) | 362 | 261 | 35,718 | 72.83\% | 617 | 419 | 232,337 | 67.83\% |
| Southern 2 | 517 | 402 | 61,341 | 77.42\% | 862 | 638 | 374,062 | 72.30\% |
| New Jersey | 1,702 | 1,337 | 1,044,003 | 79.28\% | 3,314 | 2,372 | 6,776,162 | 69.85\% |
| Central | 411 | 319 | 241,494 | 77.54\% | 730 | 523 | 1,552,030 | 69.02\% |
| Metropolitan | 391 | 308 | 261,669 | 80.32\% | 854 | 609 | 1,626,795 | 67.82\% |
| Northern | 504 | 402 | 322,437 | 81.53\% | 1,080 | 759 | 2,184,675 | 71.05\% |
| Southern | 396 | 308 | 218,403 | 77.15\% | 650 | 481 | 1,412,662 | 71.66\% |
| New Mexico | 1,338 | 1,139 | 251,927 | 85.28\% | 2,461 | 1,914 | 1,549,877 | 74.91\% |
| Region 1 | 268 | 239 | 56,486 | 90.22\% | 499 | 401 | 318,051 | 78.39\% |
| Region 2 | 155 | 138 | 31,035 | 90.07\% | 325 | 246 | 226,769 | 71.30\% |
| Region 3 (Bernalillo) | 397 | 332 | 77,475 | 83.10\% | 785 | 607 | 508,046 | 75.34\% |
| Region 4 | 264 | 210 | 34,860 | 80.35\% | 366 | 279 | 191,653 | 72.06\% |
| Region 5 | 254 | 220 | 52,071 | 86.25\% | 486 | 381 | 305,358 | 75.17\% |

See notes at end of table.
(continued)

Table C2. Sample Sizes, Weighted Interview Response Rates, and Population Estimates, by Substate Region, for Individuals Aged 12 to 20 and Adults Aged 18 or Older: 2012, 2013, and 2014 NSDUHs (continued)

| State/Substate Region | $\begin{gathered} \text { 12-20 } \\ \text { Total } \\ \text { Selected } \\ \hline \end{gathered}$ | $\begin{gathered} \text { 12-20 } \\ \text { Total } \\ \text { Responded } \\ \hline \end{gathered}$ | 12-20 <br> Population Estimate | 12-20 <br> Weighted <br> Interview Response Rate (Percentage) | $\begin{gathered} \text { 18+ } \\ \text { Total } \\ \text { Selected } \end{gathered}$ | $\begin{gathered} \text { 18+ } \\ \text { Total } \\ \text { Responded } \\ \hline \end{gathered}$ | $\begin{gathered} \text { 18+ } \\ \text { Population } \\ \text { Estimate } \end{gathered}$ | 18+ <br> Weighted <br> Interview Response Rate (Percentage) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| New York | 5,799 | 4,437 | 2,249,511 | 75.89\% | 11,041 | 7,288 | 15,173,526 | 62.86\% |
| Region A | 2,177 | 1,598 | 878,530 | 73.03\% | 4,696 | 2,901 | 6,518,835 | 58.42\% |
| Region 1 | 530 | 432 | 186,007 | 82.00\% | 877 | 620 | 1,036,410 | 70.93\% |
| Region 2 | 788 | 533 | 337,616 | 66.19\% | 1,665 | 993 | 2,317,580 | 55.50\% |
| Region 3 | 285 | 225 | 126,518 | 77.32\% | 960 | 620 | 1,370,195 | 64.42\% |
| Region 4 | 574 | 408 | 228,389 | 74.40\% | 1,194 | 668 | 1,794,650 | 50.86\% |
| Region B | 1,530 | 1,138 | 624,703 | 73.98\% | 2,548 | 1,581 | 3,871,194 | 59.31\% |
| Region 5 | 912 | 667 | 344,235 | 72.64\% | 1,521 | 927 | 2,183,053 | 58.78\% |
| Region 6 | 360 | 258 | 169,363 | 70.31\% | 598 | 362 | 1,035,505 | 58.20\% |
| Region 7 | 258 | 213 | 111,106 | 84.65\% | 429 | 292 | 652,636 | 63.26\% |
| Region C | 1,618 | 1,316 | 559,345 | 81.56\% | 2,849 | 2,111 | 3,575,427 | 71.88\% |
| Region 8 | 354 | 257 | 118,195 | 73.37\% | 560 | 399 | 784,327 | 71.47\% |
| Region 9 | 409 | 345 | 121,183 | 84.90\% | 654 | 491 | 740,418 | 72.51\% |
| Region 10 | 120 | 100 | 58,625 | 79.41\% | 241 | 189 | 348,455 | 74.85\% |
| Region 11 | 365 | 293 | 130,480 | 80.24\% | 679 | 508 | 816,246 | 72.68\% |
| Region 12 | 370 | 321 | 130,863 | 87.56\% | 715 | 524 | 885,981 | 70.16\% |
| Region D | 474 | 385 | 186,933 | 80.50\% | 948 | 695 | 1,208,070 | 70.85\% |
| Region 13 | 168 | 136 | 57,291 | 81.90\% | 328 | 238 | 373,284 | 71.31\% |
| Region 14 | 107 | 88 | 64,012 | 86.12\% | 243 | 181 | 416,796 | 69.19\% |
| Region 15 | 199 | 161 | 65,630 | 76.18\% | 377 | 276 | 417,990 | 71.47\% |

See notes at end of table.
(continued)

Table C2. Sample Sizes, Weighted Interview Response Rates, and Population Estimates, by Substate Region, for Individuals Aged 12 to 20 and Adults Aged 18 or Older: 2012, 2013, and 2014 NSDUHs (continued)

| State/Substate Region | $\begin{gathered} \text { 12-20 } \\ \text { Total } \\ \text { Selected } \end{gathered}$ | $\begin{gathered} \text { 12-20 } \\ \text { Total } \\ \text { Responded } \\ \hline \end{gathered}$ | 12-20 <br> Population <br> Estimate | 12-20 <br> Weighted <br> Interview Response Rate (Percentage) | $\begin{gathered} \text { 18+ } \\ \text { Total } \end{gathered}$ Selected | 18+ <br> Total <br> Responded | 18+ <br> Population Estimate | 18+ <br> Weighted Interview Response Rate (Percentage) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| North Carolina | 1,538 | 1,285 | 1,120,046 | 83.86\% | 3,051 | 2,386 | 7,344,723 | 75.11\% |
| Alliance Behavioral Healthcare 1 | 135 | 118 | 90,634 | 86.30\% | 299 | 251 | 575,093 | 83.80\% |
| Alliance Behavioral Healthcare 2 | 164 | 144 | 114,862 | 87.53\% | 246 | 188 | 700,520 | 73.94\% |
| Cardinal Innovations Healthcare Solutions 1 | 132 | 99 | 91,249 | 73.35\% | 225 | 166 | 551,825 | 72.09\% |
| Cardinal Innovations Healthcare Solutions 2 | 111 | 96 | 78,842 | 87.16\% | 279 | 224 | 506,508 | 79.97\% |
| Cardinal Innovations Healthcare Solutions 3 | 111 | 87 | 107,636 | 77.59\% | 281 | 196 | 712,067 | 69.92\% |
| CenterPoint Human Services | 102 | 90 | 61,945 | 88.69\% | 193 | 166 | 407,724 | 82.63\% |
| Eastpointe | 157 | 133 | 95,280 | 84.58\% | 268 | 204 | 612,590 | 68.79\% |
| Partners Behavioral Health Management | 190 | 160 | 104,105 | 86.68\% | 330 | 257 | 683,738 | 73.80\% |
| Sandhills Center 1 | 56 | 50 | 64,933 | 91.77\% | 109 | 84 | 420,365 | 71.26\% |
| Sandhills Center 2 | 85 | 71 | 60,589 | 82.70\% | 180 | 141 | 380,568 | 82.80\% |
| Smoky Mountain Center 1 | 81 | 65 | 59,264 | 83.19\% | 139 | 108 | 421,307 | 68.20\% |
| Smoky Mountain Center 2 | 61 | 46 | 52,322 | 73.31\% | 149 | 123 | 414,641 | 79.20\% |
| Trillium Health Resources 1 | 87 | 71 | 70,193 | 85.11\% | 169 | 141 | 472,296 | 80.32\% |
| Trillium Health Resources 2 | 66 | 55 | 68,193 | 83.34\% | 184 | 137 | 485,480 | 62.83\% |
| North Dakota | 1,385 | 1,131 | 87,446 | 81.65\% | 2,633 | 1,975 | 544,336 | 72.37\% |
| Badlands and West Central | 313 | 268 | 21,759 | 83.98\% | 632 | 483 | 145,880 | 75.15\% |
| Lake Region | 119 | 95 | 5,244 | 81.94\% | 182 | 135 | 29,650 | 71.75\% |
| North Central | 177 | 133 | 11,978 | 72.97\% | 272 | 213 | 75,117 | 75.53\% |
| Northeast | 223 | 189 | 12,583 | 85.75\% | 438 | 326 | 70,654 | 68.29\% |
| Northwest | 83 | 62 | 4,133 | 71.18\% | 144 | 89 | 27,982 | 63.48\% |
| South Central | 87 | 74 | 6,300 | 84.92\% | 191 | 146 | 44,398 | 74.76\% |
| Southeast | 383 | 310 | 25,450 | 81.60\% | 774 | 583 | 150,655 | 71.93\% |

[^10]Table C2. Sample Sizes, Weighted Interview Response Rates, and Population Estimates, by Substate Region, for Individuals Aged 12 to 20 and Adults Aged 18 or Older: 2012, 2013, and 2014 NSDUHs (continued)

| State/Substate Region | $\begin{aligned} & \text { 12-20 } \\ & \text { Total } \end{aligned}$ Selected | $\begin{gathered} \text { 12-20 } \\ \text { Total } \\ \text { Responded } \\ \hline \end{gathered}$ | 12-20 <br> Population Estimate | 12-20 <br> Weighted <br> Interview Response Rate (Percentage) |  | $\begin{gathered} \text { 18+ } \\ \text { Total } \\ \text { Responded } \\ \hline \end{gathered}$ | 18+ <br> Population <br> Estimate | 18+ <br> Weighted <br> Interview Response Rate (Percentage) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Ohio | 5,290 | 4,192 | 1,409,063 | 78.94\% | 8,964 | 6,545 | 8,750,593 | 70.31\% |
| Boards 2, 46, 55, and 68 | 200 | 159 | 64,265 | 75.34\% | 315 | 210 | 385,490 | 64.93\% |
| Boards 3, 52, and 85 | 182 | 142 | 50,146 | 78.99\% | 271 | 197 | 283,559 | 71.75\% |
| Boards 4 and 78 | 111 | 90 | 35,066 | 80.08\% | 197 | 150 | 237,734 | 76.95\% |
| Boards 5 and 60 | 199 | 167 | 46,604 | 83.34\% | 301 | 242 | 260,144 | 78.60\% |
| Boards 7, 15, 41, 79, and 84 | 212 | 168 | 50,931 | 78.67\% | 374 | 284 | 356,843 | 72.61\% |
| Boards 8, 13, and 83 | 250 | 189 | 62,641 | 75.91\% | 370 | 252 | 370,805 | 66.00\% |
| Board 9 (Butler) | 159 | 116 | 50,152 | 70.23\% | 268 | 181 | 276,181 | 64.19\% |
| Board 12 | 136 | 102 | 44,196 | 74.45\% | 230 | 159 | 264,936 | 62.06\% |
| Boards 18 and 47 | 657 | 564 | 184,762 | 86.06\% | 1,137 | 865 | 1,193,450 | 74.49\% |
| Boards 20, 32, 54, and 69 | 188 | 153 | 42,380 | 82.62\% | 314 | 235 | 256,829 | 73.47\% |
| Boards 21, 39, 51, 70, and 80 | 327 | 245 | 68,568 | 73.11\% | 440 | 329 | 414,969 | 70.99\% |
| Boards 22, 74, and 87 | 176 | 137 | 48,899 | 77.41\% | 293 | 232 | 296,234 | 78.97\% |
| Boards 23 and 45 | 202 | 162 | 49,176 | 79.67\% | 296 | 225 | 281,631 | 71.71\% |
| Board 25 (Franklin) | 495 | 386 | 143,523 | 78.76\% | 952 | 677 | 897,304 | 70.25\% |
| Boards 27, 71, and 73 | 252 | 191 | 57,958 | 75.58\% | 422 | 291 | 373,892 | 62.16\% |
| Boards 28, 43, and 67 | 271 | 222 | 61,584 | 81.27\% | 431 | 334 | 374,770 | 74.95\% |
| Board 31 (Hamilton) | 357 | 292 | 95,290 | 80.68\% | 625 | 465 | 601,566 | 72.64\% |
| Board 48 (Lucas) | 216 | 168 | 54,209 | 78.41\% | 337 | 228 | 329,559 | 63.84\% |
| Boards 50 and 76 | 294 | 227 | 71,614 | 76.80\% | 544 | 383 | 470,658 | 65.25\% |
| Board 57 (Montgomery) | 205 | 162 | 63,420 | 81.35\% | 436 | 324 | 411,534 | 70.60\% |
| Board 77 (Summit) | 201 | 150 | 63,682 | 74.00\% | 411 | 282 | 412,503 | 65.74\% |
| Oklahoma | 1,480 | 1,159 | 476,983 | 76.92\% | 2,650 | 1,948 | 2,820,561 | 69.13\% |
| Central | 172 | 134 | 63,066 | 76.40\% | 326 | 221 | 355,862 | 61.35\% |
| East Central | 200 | 149 | 56,086 | 73.23\% | 295 | 222 | 322,240 | 74.73\% |
| Northeast | 183 | 146 | 63,827 | 81.24\% | 345 | 264 | 360,940 | 69.93\% |
| Northwest and Southwest | 214 | 171 | 68,431 | 75.51\% | 304 | 233 | 404,489 | 71.37\% |
| Oklahoma County | 278 | 215 | 86,764 | 76.20\% | 543 | 392 | 543,373 | 65.54\% |
| Southeast | 237 | 192 | 63,929 | 80.11\% | 408 | 295 | 384,299 | 69.98\% |
| Tulsa County | 196 | 152 | 74,879 | 75.88\% | 429 | 321 | 449,359 | 72.78\% |

See notes at end of table.
(continued)

Table C2. Sample Sizes, Weighted Interview Response Rates, and Population Estimates, by Substate Region, for Individuals Aged 12 to 20 and Adults Aged 18 or Older: 2012, 2013, and 2014 NSDUHs (continued)

| State/Substate Region | $\begin{gathered} \text { 12-20 } \\ \text { Total } \\ \text { Selected } \end{gathered}$ | $\begin{gathered} \text { 12-20 } \\ \text { Total } \\ \text { Responded } \\ \hline \end{gathered}$ | 12-20 <br> Population <br> Estimate | 12-20 <br> Weighted <br> Interview Response Rate (Percentage) | $\begin{gathered} \text { 18+ } \\ \text { Total } \\ \text { Selected } \end{gathered}$ | 18+ <br> Total Responded | 18+ <br> Population Estimate | 18+ <br> Weighted <br> Interview Response Rate (Percentage) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Oregon | 1,377 | 1,132 | 457,538 | 82.57\% | 2,592 | 1,959 | 3,046,250 | 74.69\% |
| Region 1 (Multnomah) | 235 | 187 | 76,731 | 77.71\% | 530 | 388 | 607,794 | 73.39\% |
| Region 2 | 355 | 291 | 112,092 | 82.10\% | 597 | 447 | 708,028 | 72.44\% |
| Region 3 | 429 | 348 | 155,869 | 82.18\% | 813 | 635 | 949,188 | 78.30\% |
| Region 4 | 180 | 153 | 59,634 | 85.48\% | 337 | 257 | 436,964 | 76.47\% |
| Region 5 (Central) | 82 | 74 | 23,165 | 90.72\% | 159 | 123 | 158,143 | 75.43\% |
| Region 6 (Eastern) | 96 | 79 | 30,047 | 86.00\% | 156 | 109 | 186,134 | 64.71\% |
| Pennsylvania | 4,954 | 4,072 | 1,480,904 | 82.02\% | 9,105 | 6,708 | 9,861,971 | 70.47\% |
| Region 1 (Allegheny) | 466 | 358 | 128,851 | 77.45\% | 961 | 628 | 975,588 | 64.17\% |
| Regions 3, 8, 9, and 51 | 294 | 241 | 81,459 | 82.38\% | 561 | 402 | 549,711 | 68.70\% |
| Regions 4, 11, 37, and 49 | 371 | 304 | 109,140 | 80.87\% | 612 | 442 | 695,119 | 69.01\% |
| Regions 5, 18, 23, 24, and 46 | 322 | 278 | 85,000 | 84.68\% | 592 | 460 | 577,717 | 72.97\% |
| Regions 6, 12, 16, 31, 35, 45, and 47 | 306 | 249 | 91,779 | 82.17\% | 565 | 452 | 561,746 | 75.39\% |
| Regions 7, 13, 20, and 33 | 871 | 734 | 294,951 | 85.28\% | 1,668 | 1,193 | 1,902,261 | 68.68\% |
| Regions 10, 15, 27, 32, 43, and 44 | 201 | 164 | 56,235 | 80.37\% | 349 | 282 | 402,461 | 78.55\% |
| Regions 17 and 21 | 123 | 106 | 46,366 | 81.87\% | 263 | 213 | 283,624 | 76.53\% |
| Regions 19, 26, 28, and 42 | 700 | 571 | 172,159 | 81.63\% | 1,104 | 841 | 1,110,681 | 72.71\% |
| Regions 22, 38, 40, 41, and 48 | 299 | 229 | 86,166 | 76.13\% | 518 | 376 | 652,989 | 69.43\% |
| Regions 29 and 34 | 227 | 186 | 78,637 | 80.99\% | 401 | 273 | 501,438 | 64.64\% |
| Regions 30 and 50 | 254 | 196 | 66,633 | 79.55\% | 461 | 329 | 477,864 | 71.64\% |
| Region 36 (Philadelphia) | 520 | 456 | 183,530 | 84.48\% | 1,050 | 817 | 1,170,774 | 74.43\% |
| Rhode Island | 1,402 | 1,168 | 132,087 | 83.53\% | 2,615 | 1,980 | 822,015 | 73.23\% |
| Bristol and Newport | 158 | 131 | 16,503 | 86.85\% | 263 | 204 | 104,975 | 72.45\% |
| Kent | 190 | 155 | 17,532 | 80.69\% | 401 | 284 | 130,120 | 67.24\% |
| Providence | 846 | 713 | 79,554 | 83.56\% | 1,628 | 1,241 | 486,412 | 75.13\% |
| Washington | 208 | 169 | 18,498 | 83.03\% | 323 | 251 | 100,508 | 73.00\% |
| South Carolina | 1,401 | 1,148 | 541,337 | 82.26\% | 2,541 | 1,969 | 3,596,083 | 74.98\% |
| Region 1 | 415 | 335 | 173,813 | 81.27\% | 761 | 566 | 1,127,070 | 71.55\% |
| Region 2 | 362 | 311 | 139,965 | 86.82\% | 587 | 457 | 878,504 | 76.26\% |
| Region 3 | 263 | 199 | 88,126 | 74.22\% | 470 | 357 | 627,339 | 74.23\% |
| Region 4 | 361 | 303 | 139,433 | 84.25\% | 723 | 589 | 963,170 | 78.27\% |

See notes at end of table.

Table C2. Sample Sizes, Weighted Interview Response Rates, and Population Estimates, by Substate Region, for Individuals Aged 12 to 20 and Adults Aged 18 or Older: 2012, 2013, and 2014 NSDUHs (continued)

| State/Substate Region | $\begin{gathered} \text { 12-20 } \\ \text { Total } \\ \text { Selected } \\ \hline \end{gathered}$ | $\begin{gathered} \text { 12-20 } \\ \text { Total } \\ \text { Responded } \\ \hline \end{gathered}$ | 12-20 <br> Population Estimate | 12-20 <br> Weighted <br> Interview <br> Response Rate <br> (Percentage) |  | $\begin{gathered} \text { 18+ } \\ \text { Total } \\ \text { Responded } \\ \hline \end{gathered}$ | 18+ <br> Population <br> Estimate | 18+ <br> Weighted <br> Interview Response Rate (Percentage) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| South Dakota | 1,383 | 1,162 | 105,160 | 83.71\% | 2,519 | 1,928 | 621,956 | 75.21\% |
| Region 1 | 336 | 276 | 24,999 | 80.15\% | 633 | 490 | 153,104 | 77.05\% |
| Region 2 | 160 | 143 | 9,467 | 89.98\% | 234 | 174 | 56,396 | 71.89\% |
| Region 3 | 324 | 273 | 26,074 | 84.29\% | 574 | 445 | 148,447 | 77.93\% |
| Region 4 | 173 | 136 | 15,361 | 80.13\% | 339 | 249 | 88,007 | 70.84\% |
| Region 5 | 390 | 334 | 29,259 | 85.06\% | 739 | 570 | 176,003 | 74.62\% |
| Tennessee | 1,305 | 1,101 | 759,270 | 83.92\% | 2,465 | 1,951 | 4,918,833 | 76.93\% |
| Region 1 | 109 | 91 | 54,945 | 81.37\% | 225 | 169 | 403,218 | 74.69\% |
| Region 2 | 238 | 196 | 134,754 | 83.78\% | 441 | 349 | 926,189 | 79.44\% |
| Region 3 | 217 | 190 | 109,776 | 87.04\% | 387 | 317 | 741,941 | 78.64\% |
| Region 4 (Davidson) | 115 | 88 | 68,238 | 75.41\% | 280 | 215 | 497,055 | 72.43\% |
| Region 5 | 318 | 259 | 195,168 | 80.51\% | 561 | 442 | 1,172,253 | 78.10\% |
| Region 6 | 120 | 110 | 75,704 | 93.04\% | 243 | 204 | 482,718 | 77.73\% |
| Region 7 (Shelby) | 188 | 167 | 120,684 | 88.08\% | 328 | 255 | 695,458 | 73.76\% |

Table C2. Sample Sizes, Weighted Interview Response Rates, and Population Estimates, by Substate Region, for Individuals Aged 12 to 20 and Adults Aged 18 or Older: 2012, 2013, and 2014 NSDUHs (continued)

| State/Substate Region | $\begin{gathered} \text { 12-20 } \\ \text { Total } \\ \text { Selected } \end{gathered}$ | $\begin{gathered} \text { 12-20 } \\ \text { Total } \\ \text { Responded } \\ \hline \end{gathered}$ | 12-20 <br> Population <br> Estimate | 12-20 <br> Weighted <br> Interview <br> Response Rate <br> (Percentage) | $\begin{gathered} 18+ \\ \text { Total } \\ \text { Selected } \end{gathered}$ | 18+ <br> Total <br> Responded | 18+ <br> Population <br> Estimate | 18+ <br> Weighted <br> Interview Response Rate (Percentage) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Texas | 5,491 | 4,504 | 3,444,138 | 81.60\% | 9,923 | 7,298 | 18,944,344 | 70.65\% |
| Region 1 | 187 | 151 | 115,574 | 79.02\% | 417 | 296 | 628,963 | 67.31\% |
| Region 2 | 76 | 68 | 69,557 | 90.81\% | 177 | 150 | 415,696 | 82.12\% |
| Region 3 | 1,529 | 1,309 | 906,472 | 85.68\% | 2,746 | 2,114 | 5,078,952 | 73.94\% |
| Region 3a | 906 | 774 | 577,395 | 85.42\% | 1,703 | 1,282 | 3,233,114 | 71.80\% |
| Region 3bc | 623 | 535 | 329,078 | 86.12\% | 1,043 | 832 | 1,845,838 | 77.62\% |
| Region 4 | 223 | 190 | 136,677 | 85.44\% | 449 | 345 | 845,637 | 72.62\% |
| Region 5 | 167 | 129 | 95,227 | 75.95\% | 259 | 179 | 584,572 | 65.84\% |
| Region 6 | 1,229 | 907 | 821,986 | 72.93\% | 2,371 | 1,543 | 4,573,572 | 61.91\% |
| Region 6a | 1,095 | 809 | 738,683 | 72.97\% | 2,137 | 1,391 | 4,088,986 | 62.49\% |
| Region 6bc | 134 | 98 | 83,303 | 72.56\% | 234 | 152 | 484,586 | 57.08\% |
| Region 7 | 637 | 536 | 404,643 | 83.98\% | 1,275 | 975 | 2,316,920 | 74.65\% |
| Region 7a | 341 | 286 | 245,257 | 82.22\% | 747 | 552 | 1,465,297 | 72.26\% |
| Region 7bcd | 296 | 250 | 159,386 | 85.98\% | 528 | 423 | 851,623 | 78.44\% |
| Region 8 | 588 | 502 | 360,371 | 85.81\% | 922 | 685 | 1,980,282 | 72.96\% |
| Region 9 | 134 | 96 | 76,366 | 72.70\% | 241 | 160 | 430,196 | 63.92\% |
| Region 10 | 229 | 196 | 129,511 | 83.46\% | 346 | 273 | 604,974 | 78.27\% |
| Region 11 | 492 | 420 | 327,753 | 86.29\% | 720 | 578 | 1,484,582 | 76.82\% |
| Region 11abd | 288 | 241 | 198,702 | 84.29\% | 421 | 324 | 948,499 | 72.33\% |
| Region 11c (Hidalgo) | 204 | 179 | 129,051 | 89.06\% | 299 | 254 | 536,082 | 83.69\% |
| Utah | 1,321 | 1,147 | 420,016 | 87.10\% | 2,465 | 1,981 | 1,986,263 | 78.53\% |
| Bear River, Northeastern, Summit, Tooele, and Wasatch | 184 | 167 | 52,068 | 90.81\% | 285 | 230 | 236,606 | 81.21\% |
| Central, Four Corners, San Juan, and Southwest | 129 | 106 | 52,115 | 86.37\% | 227 | 169 | 241,440 | 70.68\% |
| Davis County | 167 | 142 | 47,471 | 82.24\% | 275 | 240 | 211,915 | 86.41\% |
| Salt Lake County | 490 | 417 | 144,536 | 84.39\% | 1,011 | 795 | 765,196 | 77.78\% |
| Utah County | 263 | 233 | 89,148 | 89.91\% | 465 | 375 | 356,816 | 77.01\% |
| Weber, Morgan | 88 | 82 | 34,678 | 94.15\% | 202 | 172 | 174,291 | 80.96\% |

See notes at end of table.
(continued)

Table C2. Sample Sizes, Weighted Interview Response Rates, and Population Estimates, by Substate Region, for Individuals Aged 12 to 20 and Adults Aged 18 or Older: 2012, 2013, and 2014 NSDUHs (continued)

|  | State/Substate Region | $\begin{gathered} \text { 12-20 } \\ \text { Total } \\ \text { Selected } \\ \hline \end{gathered}$ | $\begin{gathered} \text { 12-20 } \\ \text { Total } \\ \text { Responded } \\ \hline \end{gathered}$ | $\begin{gathered} \text { 12-20 } \\ \text { Population } \\ \text { Estimate } \end{gathered}$ | 12-20 <br> Weighted <br> Interview <br> Response <br> Rate <br> (Percentage) | $\begin{gathered} \text { 18+ } \\ \text { Total } \\ \text { Selected } \end{gathered}$ | $\begin{gathered} \text { 18+ } \\ \text { Total } \\ \text { Responded } \\ \hline \end{gathered}$ | $\begin{gathered} \text { 18+ } \\ \text { Population } \\ \text { Estimate } \end{gathered}$ | 18+ <br> Weighted <br> Interview <br> Response Rate <br> (Percentage) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Vermont | 1,361 | 1,106 | 72,604 | 81.47\% | 2,529 | 1,917 | 501,015 | 74.27\% |
|  | Champlain Valley | 664 | 541 | 32,271 | 82.13\% | 1,218 | 899 | 200,149 | 71.31\% |
|  | Rural Northeast | 247 | 197 | 16,517 | 80.17\% | 503 | 384 | 117,880 | 75.62\% |
|  | Rural Southeast | 267 | 210 | 13,034 | 78.80\% | 481 | 373 | 104,234 | 75.54\% |
|  | Rural Southwest | 183 | 158 | 10,782 | 84.97\% | 327 | 261 | 78,752 | 79.03\% |
|  | Virginia | 1,643 | 1,379 | 944,663 | 84.75\% | 3,020 | 2,291 | 6,181,981 | 74.38\% |
|  | Region 1 | 269 | 238 | 157,157 | 89.39\% | 487 | 406 | 958,791 | 82.57\% |
|  | Region 2 | 479 | 393 | 253,841 | 84.32\% | 837 | 611 | 1,723,482 | 70.87\% |
|  | Region 3 | 256 | 212 | 152,331 | 82.96\% | 526 | 408 | 1,063,921 | 76.80\% |
|  | Region 4 | 261 | 221 | 163,956 | 85.41\% | 469 | 338 | 1,053,897 | 69.92\% |
| $\bigcirc$ | Region 5 | 378 | 315 | 217,378 | 82.87\% | 701 | 528 | 1,381,891 | 73.77\% |
| U | Washington | 1,404 | 1,145 | 855,057 | 82.00\% | 2,641 | 1,951 | 5,279,538 | 71.53\% |
|  | Region 1 | 329 | 277 | 214,765 | 85.58\% | 499 | 376 | 1,135,716 | 72.12\% |
|  | Greater Columbia and North Central | 202 | 170 | 135,663 | 84.39\% | 295 | 228 | 668,527 | 73.84\% |
|  | Spokane | 127 | 107 | 79,102 | 87.46\% | 204 | 148 | 467,190 | 69.90\% |
|  | Region 2 | 605 | 477 | 363,834 | 78.88\% | 1,297 | 942 | 2,444,573 | 70.85\% |
|  | King | 367 | 283 | 220,868 | 76.96\% | 809 | 581 | 1,564,010 | 71.16\% |
|  | North Sound | 238 | 194 | 142,966 | 81.79\% | 488 | 361 | 880,563 | 70.35\% |
|  | Region 3 | 470 | 391 | 276,458 | 83.41\% | 845 | 633 | 1,699,249 | 72.20\% |
|  | Peninsula | 60 | 53 | 41,543 | 87.33\% | 121 | 81 | 285,757 | 66.15\% |
|  | Pierce | 190 | 164 | 104,520 | 85.42\% | 362 | 289 | 618,236 | 78.09\% |
|  | SW WA and Timberlands | 155 | 122 | 92,120 | 80.17\% | 271 | 188 | 546,023 | 65.06\% |
|  | Thurston-Mason | 65 | 52 | 38,275 | 81.30\% | 91 | 75 | 249,234 | 82.22\% |
|  | West Virginia | 1,547 | 1,230 | 210,916 | 79.43\% | 2,645 | 1,946 | 1,452,450 | 72.02\% |
|  | Region I | 101 | 77 | 16,330 | 76.44\% | 164 | 108 | 116,314 | 58.81\% |
|  | Region II | 206 | 170 | 32,591 | 80.76\% | 309 | 227 | 202,057 | 73.27\% |
|  | Region III | 113 | 83 | 18,740 | 69.56\% | 188 | 129 | 133,231 | 67.80\% |
|  | Region IV | 402 | 324 | 49,781 | 81.44\% | 678 | 524 | 322,096 | 75.50\% |
|  | Region V | 426 | 329 | 58,067 | 78.04\% | 799 | 573 | 412,851 | 70.61\% |
|  | Region VI | 299 | 247 | 35,407 | 82.01\% | 507 | 385 | 265,900 | 75.45\% |

See notes at end of table.
(continued)

Table C2. Sample Sizes, Weighted Interview Response Rates, and Population Estimates, by Substate Region, for Individuals Aged 12 to 20 and Adults Aged 18 or Older: 2012, 2013, and 2014 NSDUHs (continued)

| State/Substate Region | 12-20 <br> Total <br> Selected | 12-20 Total Responded | $\begin{gathered} \text { 12-20 } \\ \text { Population } \\ \text { Estimate } \\ \hline \end{gathered}$ | 12-20 <br> Weighted <br> Interview <br> Response Rate <br> (Percentage) | 18+ <br> Total <br> Selected | 18+ Total Responded | $\begin{gathered} 18+ \\ \text { Population } \\ \text { Estimate } \\ \hline \end{gathered}$ | 18+ <br> Weighted <br> Interview <br> Response Rate <br> (Percentage) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Wisconsin | 1,405 | 1,116 | 669,309 | 78.16\% | 2,566 | 1,859 | 4,361,642 | 72.01\% |
| Milwaukee | 228 | 182 | 114,736 | 79.18\% | 481 | 336 | 702,647 | 68.09\% |
| Northeastern | 305 | 234 | 140,203 | 75.19\% | 545 | 402 | 946,149 | 75.24\% |
| Northern | 128 | 94 | 53,634 | 70.95\% | 209 | 157 | 379,798 | 75.25\% |
| Southeastern | 290 | 223 | 140,634 | 76.64\% | 491 | 330 | 878,892 | 69.45\% |
| Southern | 255 | 212 | 126,323 | 80.92\% | 479 | 359 | 855,445 | 72.78\% |
| Western | 199 | 171 | 93,779 | 85.23\% | 361 | 275 | 598,710 | 72.26\% |
| Wyoming | 1,415 | 1,165 | 67,146 | 81.47\% | 2,508 | 1,931 | 435,273 | 76.27\% |
| Judicial District 1 (Laramie) | 238 | 193 | 10,846 | 81.85\% | 424 | 315 | 72,026 | 73.63\% |
| Judicial District 2 | 140 | 123 | 7,579 | 82.44\% | 281 | 230 | 43,225 | $77.22 \%$ |
| Judicial District 3 | 239 | 200 | 10,453 | 84.10\% | 396 | 317 | 59,981 | 81.36\% |
| Judicial District 4 | 101 | 82 | 4,110 | 83.21\% | 191 | 151 | 29,252 | 69.91\% |
| Judicial District 5 | 91 | 80 | 6,284 | 90.34\% | 158 | 127 | 41,458 | 83.21\% |
| Judicial District 6 | 175 | 134 | 7,253 | 73.19\% | 282 | 205 | 44,585 | 72.16\% |
| Judicial District 7 (Natrona) | 165 | 136 | 8,859 | 79.17\% | 281 | 213 | 58,836 | 74.47\% |
| Judicial District 8 | 139 | 114 | 4,519 | 79.52\% | 226 | 168 | 30,325 | 75.15\% |
| Judicial District 9 | 127 | 103 | 7,243 | 82.72\% | 269 | 205 | 55,583 | 78.85\% |

$\mathrm{DU}=$ dwelling unit; SPA = service planning area.
NOTE: For substate region definitions, see the "2012-2014 National Survey on Drug Use and Health Substate Region Definitions" at http://www.samhsa.gov/data.
NOTE: To compute the pooled 2012-2014 weighted response rates, the three samples were combined, and the individual-year weights were used for the pooled sample. Thus, the response rates presented here are weighted across 3 years of data rather than being a simple average of the 2012, 2013, and 2014 individual response rates.
NOTE: The total responded column represents the combined sample size from the 2012, 2013, and 2014 NSDUHs.
NOTE: The population estimate is the simple average of the 2012, 2013, and 2014 population counts for individuals aged 12 to 20 and adults aged 18 or older. Because of rounding, the sum of the substate region population counts within a state may not exactly match the state population count listed in the table.
Source: SAMHSA, Center for Behavioral Health Statistics and Quality, National Survey on Drug Use and Health, 2012, 2013, and 2014.

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## Section E: List of Contributors

This National Survey on Drug Use and Health (NSDUH) document was prepared by the Center for Behavioral Health Statistics and Quality (CBHSQ), Substance Abuse and Mental Health Services Administration (SAMHSA), U.S. Department of Health and Human Services (HHS), and by RTI International (a registered trademark and a trade name of Research Triangle Institute), Research Triangle Park, North Carolina. Work by RTI was performed under Contract No. HHSS283201300001C.

At RTI, Neeraja S. Sathe and Kathryn Spagnola were responsible for the writing of the document, and Ralph E. Folsom and Akhil K. Vaish were responsible for the overall methodology and estimation for the model-based Bayes estimates and confidence intervals. At SAMHSA, Arthur Hughes reviewed the document and provided substantive revisions.

The following staff were responsible for generating the estimates: Akhil K. Vaish, Neeraja S. Sathe, and Kathryn Spagnola. The following staff provided other support: Brenda K. Porter and Nicole Mack. Ms. Spagnola also provided oversight for production of the document. Richard S. Straw edited it; Debbie F. Bond formatted its text and tables; and Teresa F. Bass, Kimberly Cone, Danny Occoquan, and Pamela Tuck prepared the web versions. Justine L. Allpress prepared the maps used in the associated files.


[^0]:    ${ }^{1}$ RTI International is a registered trademark and a trade name of Research Triangle Institute, Research Triangle Park, North Carolina.
    ${ }^{2}$ In 2002, the survey's name changed from the National Household Survey on Drug Abuse (NHSDA) to the National Survey on Drug Use and Health (NSDUH).

[^1]:    ${ }^{3}$ Prior to this effort, substate small area estimates using the combined 1999-2001, 2002-2004, 2004-2006, 2006-2008, 2008-2010, and 2010-2012 data have been produced by SAMHSA. These estimates can be found at http://www.samhsa.gov/data/.

[^2]:    ${ }^{4}$ OAS is the former name of SAMHSA's CBHSQ.

[^3]:    ${ }^{5}$ The use of mixed models (fixed and random effects) allows additional error components (random effects) to be included. These account for differences between states and within-state variations that are not taken into account by the predictor variables (fixed effects) alone. It is also difficult (if not impossible) to produce valid mean squared errors (MSEs) for small area estimates based solely on a fixed-effect national regression model (i.e., synthetic estimation) (Rao, 2003, p. 52). The mixed models produce estimates that are approximately represented by a weighted combination of the direct estimate from the substate data and a regression estimate from the national model. The regression coefficients of the national model are estimated using data from all of the substate areas (i.e., borrowing strength), and the regression estimate for a particular substate area is obtained by applying the national model to the substate-specific predictor data. The regression estimate for the substate area is then combined with the direct estimate from the substate data in a weighted combination where the weights are obtained by minimizing the MSE (variance + squared bias) of the small area estimate.

[^4]:    ${ }^{6}$ Improper noninformative priors were used for the fixed regression coefficients. Because NSDUH's sample size is very large (approximately 200,000 observations across 3 years), it can be said with certainty that the posterior distribution for the fixed regression coefficients will be proper. For the W1 and W2 matrices, noninformative proper inverse Wishart prior distributions were used so that proper posterior distributions are guaranteed. Noninformative priors are used so that the data speak for themselves and inferences are unaffected by information external to the current data. For further information on Bayesian inference and analysis, see Box and Tiao (1992) and Gelman, Carlin, Stern, and Rubin (2003).

[^5]:    ${ }^{7}$ See Table 3 in the "2012-2014 NSDUH Substate Region Estimates: Excel Tables" at http://www.samhsa.gov/data/.

[^6]:    ${ }^{8}$ The RSE of an estimate is the posterior SE divided by the estimate itself. Note that the RSEs have been calculated based on the unbenchmarked small area estimates.

[^7]:    (continued)

[^8]:    See notes at end of table.

[^9]:    (continued)

[^10]:    See notes at end of table

