# ADDRESS-BASED SAMPLING RESEARCH REPORT 

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## Executive Summary

The use of address-based sampling (ABS) has increased over the recent past. The National Survey on Drug Use and Health (NSDUH) continues to thoroughly investigate the impact of making the transition from a field-enumerated frame to a hybrid ABS/field-enumerated frame (described in Chapter 1). If the Substance Abuse and Mental Health Services Administration (SAMHSA) is to move NSDUH to a hybrid ABS/field-enumerated frame, several questions will need to be answered, procedures will need to be developed and tested, and costs and benefits will need to be weighed. This report outlines what is known to date, how it may be applied to NSDUH, and what additional considerations need to be addressed. Overarching themes are summarized below.

- Although many best practices have been developed for hybrid-ABS designs (e.g., use of addresses from a licensed Computerized Delivery Sequence vendor along with field enumeration to maximize frame coverage [Section 4.4.1]), many procedures have not been standardized across the industry. For example, coverage error rates can be calculated as net coverage, undercoverage, overcoverage, or gross coverage error and may be calculated using different models, numerators, denominators, and covariates (Sections 4.1 and 4.3). Although much literature has been developed to validate these various procedures, little comparative research has been completed on coverage rates or other areas for which competing methods exist. This suggests that any validated method may be sufficient, but more research would be necessary to identify an optimal method.
- Even where current best practices are clear, they may be changing. For example, geocoding software is improving, and periodic evaluation will be necessary (Section 4.10).
- All design considerations are interconnected, and the questions posed in this report cannot be answered in a vacuum. For example, some segments will have middling coverage from the ABS frame. They will need to be enhanced. The timing of the enhancement (when and how frequently) influences and is influenced by the frame enhancement procedure, accuracy of the frame enhancement, labor force job satisfaction, labor force burden, and proportion of field interviewers and listers who would need to be trained to conduct the enhancement (Section 6.1).
- Relatedly, all design choices come with costs and benefits. This report is an attempt to provide an unbiased and exhaustive list of the pros and cons of each choice, but the ultimate decisions are yet to be made. For example, moving to a three-tiered ABS frame (e.g., segments with high coverage would use the ABS frame, segments with low coverage would be field enumerated, and segments with middling coverage would use the ABS frame with enhancement) offers the largest potential for cost savings, but logistical challenges may reduce labor-force job satisfaction and job performance (Section 6.1). Goals will need to be prioritized prior to moving forward.
- Unique solutions will need to be developed for NSDUH. The survey maintains ongoing data collection and is significantly larger than most other ABS surveys. Additional changes to ABS best practices will need to be made to make them scalable. Furthermore, NSDUH includes group quarters (GQs) in the sample frame (Section 6.7). Most GQs are
excluded or significantly undercovered on the ABS frame, and alternative sampling procedures will need to be considered (Section 4.5.2).
The above themes are daunting, and the amount of literature and other sources on which this report is based is significant. However, this is not to suggest that a transition to a hybrid ABS frame is impractical or not worthwhile. It is to suggest that each decision should be carefully considered and tested prior to moving NSDUH to a hybrid ABS design. To frame the discussion and next steps, Chapter 7 includes a list of considerations that will need attention.


## 1. Introduction

Researchers draw a sample of residential addresses from a list of addresses obtained from a licensed vendor, a process referred to as address-based sampling (ABS). The vendor lists are based on the U.S. Postal Service's Computerized Delivery Sequence (CDS) file. ${ }^{\frac{1}{A B S}}$ has gained popularity over the past decade as a replacement for field listing. By eliminating (or greatly reducing) the need for field listing, ABS has the potential to significantly reduce costs, improve timeliness, and eliminate human error. However, ABS also has limitations. Some addresses may be incorrectly included or excluded from a segment due to geocoding error. Other addresses do not represent the physical location of the dwelling unit and cannot be fielded in an in-person survey (e.g., households that only receive mail via a post office box). The CDS also does not include group quarters (GQs), resulting in undercoverage.

To minimize the weaknesses of ABS , some surveys have adopted a hybrid ABS design. Hybrid ABS uses the ABS frame in areas with high coverage and field listing in areas with low coverage. In some cases, the ABS frame may be used with a coverage enhancement method (e.g., half-open interval [HOI]) in areas with moderate coverage. This approach improves coverage compared with an ABS-only design and reduces costs and time in the field compared with field listing. However, staffing, training, and implementation of frame enhancement methods are more complex than traditional field listing, increasing the risk of error when compared with traditional listing.

Although research conducted on the 2009 Mailing List Field Studies (MLFS) (see Section 2.2) suggested that a hybrid ABS design could replace the existing listed frame, the Substance Abuse and Mental Health Services Administration (SAMHSA) determined that the potential benefits did not outweigh the potential risks. Although cost savings were realized in the MLFS, they were not as large as expected. There were also concerns about the feasibility of interviewers to correctly implement a frame enhancement procedure and the existing HOI procedure, geocoding error, the ability to identify and cover GQs, error in calculating segment coverage rates, and how these challenges may alter the time series. In the past 5 years, several changes have occurred that may change the cost-benefit analysis for the National Survey on Drug Use and Health (NSDUH).

- The coverage rate of the ABS frame has improved.
- There have been advances in the field to quantify errors resulting from using an ABS frame.
- Several other national in-person surveys have transitioned to a hybrid ABS frame. As a result, best practices have been developed to minimize the risk of error and further improve the efficiencies and ease of implementation.

[^0]- NSDUH procedures have changed (e.g., HOI is no longer in use), making it more amenable to a hybrid ABS frame.
- Field costs associated with traditional field listing have increased in recent years, making a hybrid ABS design more compelling.

This document summarizes the current literature, existing hybrid ABS research on NSDUH, and experiences and lessons learned from existing hybrid ABS designs. A series of interviews were conducted with individuals experienced with the implementation of hybrid ABS designs, including project directors, methodologists, statisticians, field managers, listers, and interviewers. The report first summarizes hybrid ABS work on NSDUH (Chapter 2) and other hybrid ABS surveys (Chapter 3) followed by chapters dedicated to coverage, sampling, and logistical concerns (Chapters 4 to 6). Each of the substantive chapters (i.e., coverage, sampling, and logistics) are further arranged by a summary of the topic area and a list of questions and answers. The final chapter (Chapter 7) is a summary of next steps for consideration.

# 2. National Survey on Drug Use and Health Summary 

In this chapter, the current National Survey on Drug Use and Health (NSDUH) sample design and selection procedures are reviewed to provide context for the changes related to address-based sampling (ABS) that are discussed in subsequent chapters. The ABS research that has been completed to date on the NSDUH project is also summarized.

### 2.1 Current Sample Design and Selection

The NSDUH respondent universe is the civilian, noninstitutionalized population aged 12 years old or older residing within the United States. The survey covers residents of households (e.g., individuals living in houses/townhouses, apartments, and condominiums; civilians living in housing on military bases) and individuals in noninstitutional group quarters (GQs), such as shelters, rooming/boarding houses, college dormitories, migratory workers' camps, or halfway houses (Center for Behavioral Health Statistics and Quality [CBHSQ], 2017).

A coordinated design was developed for the 2014 through 2017 NSDUHs and is being extended to the 2018 through 2022 NSDUHs. To support these studies, an independent, multistage area probability sample was selected down to the area segment level within each state and the District of Columbia. First, each state was stratified into approximately equally populated state sampling regions (SSRs). Then census tracts were selected within each SSR, census block groups were selected within census tracts, and area segments (one or more census blocks) were selected within census block groups. The selection of census block groups at the second stage of selection was added in 2014 to facilitate possible transitioning to an ABS design in the future (CBHSQ, 2017). Finally, area segments were assigned to survey years and calendar quarters. Each quarter, a sample of dwelling units (DUs) was selected within the quarter's sample segments, with additional samples selected and held in reserve for release later in the quarter if that quarter's responses fell below expectation. Selected DUs were screened, and zero, one, or two eligible residents were selected for the interview.

Within each sample segment, the DU frame is constructed via field enumeration (FE) or listing. Eight sample segments per SSR or 6,000 total sample segments are fielded each year. Half of the segments are retained from the prior year, and the other half are new. FE occurs between April and November in the year prior to data collection. In addition to increasing the precision of estimates of year-to-year trends, this 50 percent overlap of segments significantly reduces segment listing costs because only one half of the segments need to be listed each year.

Prior to 2014, the half-open interval (HOI) frame supplementation procedure ${ }^{2}$ also was implemented. An evaluation of 2010 NSDUH data found that the HOI procedure accounted for only 0.2 percent of the total DUs on the NSDUH frame (Iannacchione, McMichael, Shook-Sa, \& Morton, 2012). Therefore, the HOI was eliminated to decrease the burden on FIs and simplify the screening process. Currently, if a field interviewer (FI) encounters a new or missed DU on the premises of a sampled DU (e.g., a garage apartment), the new or missed DU is selected into the sample. To minimize bias associated with large numbers of missed DUs, FIs are instructed to call their supervisors if they notice large differences ${ }^{\underline{3}}$ in the segment listing and what they encounter in the field (CBHSQ, 2017).

In 2016, 135,188 screenings and 67,942 interviews were completed. Between 600-700 FIs were employed at any given time to conduct screening and interviewing. A subset of FIs (approximately 35 percent of all FIs) also conducted FE, assisted by over 100 listers who did not serve as FIs. Although these numbers vary slightly across years, they are relatively constant.

### 2.2 2009 NSDUH ABS Research

In 2009, two Mailing List Field Studies (MLFS I and MLFS II) were fielded to evaluate the coverage, cost, and implementation procedures of a hybrid ABS sampling frame for NSDUH. Unlike the three categories of segments outlined in the introduction (ABS frame, ABS frame with enhancement, and FE), the 2009 research used a two-category design: (1) ABS frame with enhancement and (2) FE. The vast majority of segments would use the ABS frame supplemented using the Check for Housing Units Missed (CHUM) procedure. ${ }^{4}$ Segments with low ABS frame coverage would rely on FE and the $\mathrm{HOI}^{\frac{5}{5}}$ for the remaining (primarily rural) segments where ABS coverage is low.

The CHUM procedure has two components that supplement the coverage of an ABS frame. In CHUM1, FIs establish a path of travel from the sampled DU to the next DU. Facing the located sampled DU, the FI travels clockwise around the block, without crossing a street, to find the next DU. Street crossings are avoided to ensure that each path of travel is nonoverlapping. After the address of the next DU is found, it is checked against the ABS frame to determine whether it was missed. If the address of the next DU is not on the ABS frame or is incorrectly geocoded out of the sample segment, the DU is included in the sample. These steps are repeated until either the address of a DU on the ABS frame is found or the block is circumnavigated. Because CHUM1 is restricted to blocks associated with a sampled address, DUs in blocks with no addresses on the ABS frame will be missed. CHUM2 mitigates this

[^1]source of undercoverage by adding the "missed blocks" and their associated DUs to the frame. FIs perform the CHUM2 procedure from a predetermined start point in a randomly selected area rather than a starting DU. The FIs follow the same path of travel that they do for the CHUM1 procedure, stopping when they either list an address that matches to the ABS list or they return to the start point without finding a match (Iannacchione et al., 2012).

Iannacchione et al. (2012) summarized the results of the NSDUH ABS research, including the results of MLFS I and MLFS II, subsequent work developing and testing the CHUM procedure, and exploratory analyses on coverage prediction; GQs' coverage; geocoding error; and potential supplemental sources of addresses. The following subsections describe the methods of the two field studies.

### 2.2.1 MLFS I

The sample for the MLFS I had 3,878 screened and eligible sampled DUs in a subsample of 200 NSDUH segments. Prior to selecting the sample, the NSDUH segments were stratified by expected ABS net coverage. ${ }^{6}$ A separate stratum for segments with a high percentage of GQs was also created. A total of 1,725 interviews were obtained from the 3,878 sampled DUs in the first quarter of 2009. The use of segments already fielded allowed the NSDUH team to determine the eligibility of DUs and to compare prevalence rates without having to conduct additional interviews.

To develop a hybrid frame of DUs, the team attempted to match the street name and number, city, state, and ZIP Code of eligible sampled DUs obtained from the NSDUH screening to a list of mailing addresses purchased from a commercial vendor. Sampled DUs whose mailing address did not initially match to the ABS list were followed up with a telephone or field check to verify or correct the mailing address of the DU. Finally, the CHUM procedure was applied to the nonmatching sampled DU addresses to estimate the gain in coverage afforded by this portion of the hybrid frame methodology. An ABS address was selected in the vicinity of the nonmatching (missed) DU and treated as a sampled DU for the purposes of implementing the CHUM procedure. If the missed NSDUH DU was picked up by the CHUM, it was considered to be covered by the hybrid frame.

The analysis of the MLFS I data examined several coverage thresholds to identify a threshold that provides comparable coverage and comparable prevalence estimates with the current NSDUH frame. Cost savings associated with the hybrid frame were also estimated.

### 2.2.2 MLFS II

The only source of undercoverage associated with the hybrid frame during the MLFS I was attributable to the incorrect implementation of the CHUM. Thus, the objective of the MLFS II was to develop and evaluate an improved CHUM training protocol. At-home and in-

[^2]person CHUM training protocols and field exercises were designed. The in-person portion of the CHUM training was conducted in Research Triangle Park, North Carolina, on July 28, 2010. The field exercises took place immediately following the in-person training on July 28 and 29, 2010.

To evaluate the training protocol, NSDUH statisticians purposely created CHUM intervals in the area surrounding Research Triangle Park that represented a variety of situations (e.g., rural areas, apartment buildings) and difficulty levels. The percentage of correctly implemented CHUM intervals was tabulated, and a debriefing was held with study participants to receive feedback on the training protocol.

### 2.2.3 Major Findings and Recommendations

## Coverage of the Hybrid Frame

- Theoretically, the hybrid frame provides 100 percent coverage of the target population. In FE segments, the coverage is equivalent to the current NSDUH coverage rate. In an ABS frame with enhancement segments, DUs that are not included on the ABS frame are covered by the CHUM procedure. The only known sources of undercoverage occur when field staff incorrectly implement the CHUM and/or HOI procedures.
- The ABS net coverage estimate is defined for each segment as the ratio of the number of DUs with locatable mailing addresses ${ }^{1}$ to the total number of DUs in the segment. Segments that meet or exceed a specified coverage threshold would be assigned to ABS with enhancement; otherwise, they would be assigned to FE. Based on the 2009 NSDUH, ABS coverage thresholds of 50,65 , or 80 percent lead to approximately 8,14 , or 27 percent, respectively, of NSDUH segments being assigned to FE.
- ABS frame coverage of GQs is problematic. Therefore, segments with high concentrations of GQs should be allocated to FE whenever possible. The 2010 decennial census is the only feasible source for predefining segments requiring FE based on having a large noninstitutional GQ population. However, as the data age, the quality of the predictor will deteriorate.
- Geocoding error occurs when the geographic coordinates assigned to a DU do not correspond to its actual location. Without a frame supplementation procedure such as the CHUM, geocoding error can lead to both overcoverage error and undercoverage error of an ABS frame. Geocoding error is more likely in rural areas than urban areas and for area segments at more granular levels of census geography (e.g., census blocks will suffer from more geocoding error than census block groups).


## Cost Savings of the Hybrid Frame

- The cost savings afforded by the hybrid frame depend on how many segments are assigned to ABS with enhancement. In general, the lower the ABS coverage threshold, the more segments will be allocated to ABS and the higher the cost savings. However, because the CHUM procedure is designed to supplement areas with adequate ABS

[^3]coverage, it is more efficient to allocate segments with very low ABS coverage to the FE frame.

- Cost savings are also a function of how well ABS coverage is predicted at the segment level. Inefficiencies arise when segments are allocated to FE that should be allocated to ABS and when segments are allocated to ABS that should be allocated to FE (because the high reliance on the CHUM procedure mitigates the cost savings of ABS).


## Implementation of the CHUM Procedure

- The CHUM procedure is an ABS frame-supplementation procedure. The CHUM is implemented by field staff from selected DUs to pick up any DUs that are not included on the ABS frame. When implemented correctly, it gives every DU in a sampled segment a chance of selection with known probability.
- ABS frames supplemented with the CHUM procedure provide 100 percent coverage of the target population when the CHUM is implemented correctly. A field study (MLFS II) was implemented to measure how well NSDUH field staff implement the CHUM procedure in various situations that they are likely to encounter in the field. For typical CHUM intervals, ${ }^{8}$ the CHUM was implemented correctly 90.7 percent of the time compared with being implemented correctly 60.0 percent of the time for high-difficulty intervals.
- To ensure correct implementation of the CHUM procedure, field staff must receive adequate training. The at-home training combined with in-person training that was used on the MLFS II was generally effective; however, during fieldwork, FIs reported difficulty with several concepts, such as performing the CHUM at apartments and trailer parks and knowing when to contact field support for assistance. As a result, improved training procedures and materials are needed. ${ }^{-}$
- After training, FIs must be monitored in the field through the use of seeding ${ }^{10}$ and other techniques to ensure they are correctly implementing the CHUM procedure. They must also be provided with field support to answer questions that arise while implementing the CHUM procedure in the field.

Iannacchione et al. (2012) found that, with proper training and monitoring, the hybrid sampling frame can be implemented in a way that reduces survey costs while maintaining NSDUH's high scientific standards. Further efficiencies can be gained by developing techniques that accurately allocate segments with low ABS coverage (e.g., segments with high concentrations of GQs) to the FE frame and by continuing to explore sources of supplemental addresses.

[^4]
### 2.3 2017 NSDUH ABS Coverage Bias Research

While reviewing the findings from the MLFS and summarizing the current literature, the team identified several changes that occurred between 2009 and 2017 that could alter the cost savings and coverage bias observed on NSDUH. As a result, new coverage bias analyses were conducted to assess the effect of adopting a hybrid ABS frame on NSDUH in the current survey climate.

To estimate bias, three datasets were created using the 2015 and 2016 NSDUH data, which were collected using a field enumerated sample. The first dataset is the combined full set of 2015 and 2016 NSDUH respondents ( $n=136,015$ ). It is considered the control group and was used to create estimates assuming a field enumerated frame. The second dataset (Subsample 1) was a subset of the combined set of 2015 and 2016 NSDUH respondents in which all respondents living at description-based addresses were excluded ( $n=128,944$ ). The third dataset (Subsample 2) further subset the combined 2015 and 2016 NSDUH respondents by excluding GQs and addresses in American Indian or Alaska Native (AIAN) tribal areas in addition to description-based addresses $(n=125,179)$. The exclusions made in Subsamples 1 and 2 should be most like the addresses that would be missing from an ABS frame. GQs and AIAN tribal areas are frequently missing from the ABS frame. In Subsample 1, it was assumed that a supplemental frame (e.g., the Integrated Postsecondary Education Data System) would be used to ensure that individuals living in GQs were represented and that all segments that included AIAN tribal areas could be identified ahead of time and continue to be FE. In Subsample 2, neither of these assumptions were made, and they were considered missing from the frame.

Prevalence estimates were made for 15 measures for each sample, and the subsamples were compared with the field enumerated sample. Table 2.1 displays the weighted count of individuals who reported the behavior of interest and the weighted estimates produced using each of the three samples. Significant differences were found between both of the two subsamples and the FE sample for 3 out of the 15 measures. Both subsamples resulted in significantly higher prevalence of alcohol use in the past month and alcohol disorder within the past year. Both subsamples also yielded a significantly lower estimate of cigarette use in the past month. Only the first subsample, excluding description-based addresses, produced a significantly different estimate for use of mental health services in the past year. All seven of the observed significant differences were small, (i.e., 0.1 to 0.2 percentage points [absolute difference] and 0.6 to 1.8 percent [relative difference]).

Table 2.1 Key Estimates Among Two Simulated ABS Frames (Subsample 1 and Subsample 2) Compared with the 2015-2016 NSDUH Field Enumerated Frame (FE Sample)

| Measure of Interest | FE Sample |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Weighted N | \% | Weighted N | \% | Weighted N | \% |
| Past month binge alcohol use | 66,008 | 24.6 | 66,015 | 24.6 | 66,113 | 24.6 |
| Past month marijuana use | 23,104 | 8.6 | 23,056 | 8.6 | 22,992 | 8.6 |
| Past month stimulant use | 1,694 | 0.6 | 1,704 | 0.6 | 1,711 | 0.6 |
| Past year serious mental illness (aged 18+) | 10,063 | 4.1 | 10,040 | 4.1 | 10,035 | 4.1 |
| Past month alcohol use | 137,528 | 51.2 | 138,060 | 51.4* | 138,297 | 51.5* |
| Past month cigarette use | 51,642 | 19.2 | 50,992 | 19.0* | 50,998 | 19.0* |
| Past year alcohol use disorder | 15,396 | 5.7 | 15,535 | $5.8^{*}$ | 15,548 | $5.8^{*}$ |
| Past year illicit drug use disorder | 7,559 | 2.8 | 7,565 | 2.8 | 7,507 | 2.8 |
| Past year any mental illness (aged 18+) | 44,036 | 18.1 | 44,071 | 18.1 | 44,051 | 18.1 |
| Past year mental health service use | 34,612 | 14.3 | 34,825 | $14.4 *$ | 34,752 | 14.3 |
| Past year major depressive episode (aged 18+) | 16,152 | 6.7 | 16,209 | 6.7 | 16,230 | 6.7 |
| Past month pain reliever use | 3,562 | 1.3 | 3,528 | 1.3 | 3,511 | 1.3 |
| Substance use disorder | 20,461 | 7.6 | 20,568 | 7.7 | 20,543 | 7.6 |
| Past year specialty substance use treatment | 2,287 | 0.9 | 2,298 | 0.9 | 2,255 | 0.8 |
| Past year major depressive episode (aged 12-17) | 3,060 | 12.6 | 3,064 | 12.6 | 3,066 | 12.7 |

* $p<0.05$

In addition to analyzing the overall estimates across frames, estimates were also constructed within 8 domains (college enrollment status, age, sex, Hispanicity, race, pregnancy status, census division, and county type) and 13 cross domains. The absolute and relative difference was calculated for each variable across samples and by domain. Variables of interest were evaluated on the proportion of comparisons that were significantly different at the 0.05 level and the magnitude of the change in estimates across samples. This analysis resulted in a total of 17,404 comparisons. Across all comparisons, 7 percent were found to be significantly and substantively different from the FE sample. However, some variables were much more susceptible to frame shifts (e.g., past year illicit drug use disorder) than others (e.g., past month binge alcohol use). Table 2.2 summarizes the effects of the frame changes on each variable. For more details on the analysis, including specific statistics on each comparison, please see Appendix A, Tables A. 2 and A. 3 and Figures A. 1 and A. 2.

Comparisons were also summarized by domain and by domain counts. Similar to the measures, some domains were more likely to experience differences in estimates than others, but no clear pattern emerged. A pattern did emerge when reviewing significant differences by domain counts. Table 2.3 summarizes the comparisons by domain counts-how many cases were in the denominator of each estimate. When domain counts were less than 2,000 , the number of significant differences was frequently no greater than chance. However, the larger the domain counts, the smaller the detectable difference and the greater risk of identifying significant differences. Among estimates with domain counts of 10,000 or more, 17 percent of Subsample 1 estimates and 13 percent of Subsample 2 estimates were found to be significantly different from the estimates produced using the FE sample.

Table 2.2 Categorization of Variables by Number and Magnitude of Significant Differences by Two Simulated ABS Frames (Subsample 1 and Subsample 2)


Table 2.3 Percentage of Significantly Different Comparisons by Two Simulated ABS Frames (Subsample 1 and Subsample 2) Compared with the 2015-2016 NSDUH Field Enumerated Frame by Subdomain Size

| Sample Sizes | Subsample 1. Sample Excluding <br> Description-Based Addresses |  |  | Subsample 2. Sample Excluding GQ, <br> AIAN tribal areas, and Description-Based <br> Addresses |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
|  | \# of Comparisons <br> Made of Comparisons <br> $\mathbf{p}<\mathbf{0 . 0 5}$ | \# of Comparisons <br> Made | \% of Comparisons <br> $\mathbf{p}<\mathbf{0 . 0 5}$ |  |  |
|  | 67 | 1 | 64 | 0 |  |
|  | 325 | 6 | 315 | 3 |  |
| $500-749$ | 197 | 4 | 196 | 5 |  |
| $750-999$ | 171 | 7 | 171 | 5 |  |
| $1,000-1,999$ | 511 | 5 | 539 | 4 |  |
| $2,000-2,999$ | 386 | 10 | 356 | 8 |  |
| $3,000-3,999$ | 273 | 10 | 298 | 9 |  |
| $4,000-4,999$ | 174 | 12 | 136 | 10 |  |
| $5,000-5,999$ | 184 | 13 | 169 | 12 |  |
| $6,000-6,999$ | 102 | 11 | 131 | 10 |  |
| $7,000-7,999$ | 89 | 11 | 133 | 3 |  |
| $8,000-8,999$ | 174 | 11 | 131 | 8 |  |
| $9,000-9,999$ | 89 | 12 | 103 | 7 |  |
| $>=10,000$ | 1,156 | 17 | 1,112 | 13 |  |

Finally, comparisons were made to determine whether a shift in frame would ultimately change the conclusions drawn from analyses across subdomains (Table 2.4). The first two columns of Table 2.4 for each subsample include all agreements (both the FE and the subsample comparisons were significant at the 0.05 level or both the FE and subsample comparisons failed to reach significance). Only 9 (4 percent) of the 255 total comparisons in Subsample 1 ( 17 subdomains x 15 measures) and 14 ( 6 percent) of the comparisons in Subsample 2 yielded different outcomes than the FE sample comparison. This is approximately the margin of error that would be expected when testing at the 0.05 significance level, suggesting that a frame change would result in an acceptably small number of different conclusions when making subdomain comparisons. There was variation by measure in both subsamples, but the number of comparisons for each measure was small ( $n=17$ ), making the estimates by measure unstable. Given the data, the shift in frame will have minimal effect on subdomain comparisons.

Although these findings provide a "best guess" of the effect of a hybrid ABS design given the data available, the results should be interpreted with caution. Several assumptions and limitations of the data make these results represent a "worst case" scenario. Additional details on the analyses and their limitations are available in Appendix A.

Table 2.4 Estimated Proportion of Subdomain Comparisons that Would Change Significance Given Two Simulated ABS Frames (Subsample 1 and Subsample 2) Compared with the 2015-2016 NSDUH Field Enumerated Frame (FE Sample) ( $n=17$ for each variable)

| Variable | Subsample 1. Sample Excluding Description-Based Addresses |  |  |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | FE \& Subsample Subdomain Est. Signif. Diff. | Neither Est. Signif. Diff. | FE <br> Subdomain <br> Est. Signif. Diff. | Subsample <br> Subdomain <br> Est. Signif. <br> Diff. | FE \& Subsample Subdomain Est. Signif. Diff. | Neither Est. Signif. Diff. | FE <br> Subdomain <br> Est. Signif. Diff. | Subsample <br> Subdomain <br> Est. Signif. Diff. |
| Total | 51 | 45 | 1 | 2 | 51 | 44 | 2 | 4 |
| Past month binge alcohol use (BNGDRKMON) | 65 | 29 | 0 | 6 | 59 | 24 | 6 | 12 |
| Past month marijuana use (MRJMON) | 76 | 24 | 0 | 0 | 76 | 24 | 0 | 0 |
| Past month stimulant use (STMNMMON) | 41 | 59 | 0 | 0 | 41 | 59 | 0 | 0 |
| Past year serious mental illness (age 18+) (SMIYR_U) | 53 | 47 | 0 | 0 | 53 | 47 | 0 | 0 |
| Past month alcohol use (ALCMON) | 88 | 6 | 6 | 0 | 88 | 6 | 6 | 0 |
| Past month cigarette use (CIGMON) | 71 | 18 | 6 | 6 | 76 | 18 | 0 | 6 |
| Past year alcohol use disorder (ABODALC) | 41 | 59 | 0 | 0 | 41 | 53 | 0 | 6 |
| Past year illicit drug use disorder (UDPYILL) | 47 | 53 | 0 | 0 | 47 | 53 | 0 | 0 |
| Past year any mental illness (age 18+) (AMIYR_U) | 53 | 47 | 0 | 0 | 53 | 41 | 0 | 6 |
| Past year mental health service use (AMHTXRC) | 71 | 24 | 0 | 6 | 71 | 24 | 0 | 6 |
| Past year major depressive episode (age 18+) (AMDEYR2) | 41 | 53 | 0 | 6 | 35 | 47 | 6 | 12 |
| Past month pain reliever use (PNRNMMON) | 24 | 71 | 6 | 0 | 24 | 71 | 6 | 0 |
| Substance use disorder (UDPYILAL) | 53 | 47 | 0 | 0 | 53 | 41 | 0 | 6 |
| Past year specialty substance use treatment (TXYRSPILAL) | 12 | 82 | 0 | 6 | 12 | 82 | 0 | 6 |
| Past year major depressive episode (age 12-17) (YMDEYR2) | 29 | 65 | 0 | 6 | 29 | 71 | 0 | 0 |

## 3. Existing Studies

This chapter presents information on other surveys that use a hybrid address-based sampling (ABS) design. The methods used by the most relevant studies are summarized in this chapter: the National Health Interview Survey (NHIS), the Residential Energy Consumption Survey (RECS), the American National Election Studies (ANES), and the National Survey of Family Growth (NSFG). Experiences from these surveys have been cited throughout this report to lend further evidence and support to the findings.

### 3.1 National Health Interview Survey (NHIS)

The NHIS, conducted since 1957, is the largest in-person health survey in the United States. Conducted by the National Center for Health Statistics (NCHS) and fielded by the U.S. Census Bureau, the NHIS collects data year-round on medical conditions, health insurance, doctor's office visits, physical activity, and other health behaviors. Although sample sizes vary from year to year, approximately 87,500 individuals in 35,000 units are interviewed each year, with a household response rate of 67.9 percent.

Until 2016, the NHIS used field enumeration (FE) to construct a frame from which to draw a multistage, area probability sample. In 2016, the NHIS transitioned to hybrid ABS. Sample in segments that fell in counties where the estimated county coverage rate was 85 percent or higher was drawn from Marketing Systems Group's (MSG) frame based on the U.S. Postal Service's Computerized Delivery Sequence (CDS), while all other segments were field enumerated. The numerator of the coverage estimate includes both the CDS-licensed addresses from the vendor, MSG, and addresses on the No-Stat file that pass a filter. ${ }^{11}$

Dormitories were included on the frame by using information from the Integrated Postsecondary Education Data System (IPEDS). The list of institutions from IPEDS was geocoded. If an institution fell inside a sampled segment, the institution was contacted and asked to provide a list of dormitories. This technique was extremely expensive, and institutions were reluctant to provide the requested information. Starting in 2018, the NHIS will change the household roster to include individuals currently away at college and living in on-campus housing. If a college student living on campus is selected, a phone number will be collected, and the interview will be conducted over the phone. Dormitories will no longer be sampled. In addition to dormitories, other group quarters (GQs) are considered in scope for NHIS but are identified only in segments that are field enumerated. No special procedures are implemented to ensure that they are covered in the ABS segments.

NHIS listers and field interviewers (FIs) complete standard census training and NHIS study-specific training before starting work. The change in sampling frames did not necessitate changes in training or implementation procedures. Interviewers are provided with maps with pins of the geocoded location of sampled units. Although this feature is new to NHIS, many census

[^5]interviewers are cross-trained on other census-conducted studies for which this feature may have been previously used.

### 3.2 Residential Energy Consumption Survey

The RECS is a periodic survey of households that collects energy characteristics, energy usage patterns, and household demographics. The survey has been conducted by the Energy Information Administration since 1978, with the most recently completed iteration in 2015. The 2015 RECS began as an in-person survey using computer-assisted personal interviewing (CAPI) for data collection. ${ }^{12}$ A total of 6,522 sampled housing units (HUs) (GQs are not considered inscope) were attempted in CAPI, yielding 2,417 completed in-person interviews and resulting in an American Association for Public Opinion Research Response Rate 2 of 41.8 percent.

Although RECS has always used a multistage, area probability sample design, it transitioned from FE to hybrid ABS in 2009. The 2005 RECS design was the foundation for the 2009 survey and was supplemented with additional primary sampling units (PSUs) and segments for an expanded sample. EIA determined which segments were satisfactorily covered with an ABS frame and which segments needed to be enhanced in the field. Segments were assigned to an ABS frame if they met one of three conditions: (1) at least one block in the segment did not require listing for the decennial census (i.e., had a Census Bureau's Type of Enumeration Area ${ }^{\frac{13}{}}$ [TEA] code of 1) and a net coverage ratio (ABS/Claritas) of at least 0.8 ; (2) the segment had a net coverage ratio (ABS/2000 census) of at least 0.9 ; or (3) manual review of satellite images and vacancy counts deemed ABS acceptable. All other segments were assigned to enhanced listing for HU frame construction. Data collection lasted 6 months (February through August 2010), during which time, nonresponding sample members were contacted multiple times by interviewers and through the mail with letters and postcards.

In 2015, the RECS design was amended. A Compact Information Systems-licensed ABS frame with appended No-Stat addresses (Section 4.4.2) was used, and the same multistage, area probability protocols were used to select census block groups. Net coverage estimates were calculated as the ratio of the number of city-style mailing addresses on the ABS frame compared with the estimated number of HUs in the census block group according to the American Community Survey. Segments with ratios greater than or equal to 90 percent $(n=547)$ were fielded using the ABS frame; segments with 56 to 90 percent coverage were enhanced using the Check for Housing Units Missed (CHUM) $(n=213)$ procedure, and the remaining segments $(n=40)$ were field enumerated. Given the large size of some block groups, some field-enumerated segments were further divided into smaller sections and subsampled.

Field-enumerated segments were listed on paper prior to HU sample selection, similar to what is done for the National Survey on Drug Use and Health (NSDUH). CHUM was conducted concurrently with screening and interviewing during the 6-month field period (August through

[^6]February). FIs used tablets to conduct CHUM and separate laptops for interviewing. Facing the located HU, the FI traveled clockwise around the block, without crossing a street, to find the next HU. Upon locating the next HU in the path of travel, the FI checked its address against the ABS frame to determine whether it was missed. The entire ABS frame within each selected segment was stored on the FI's tablet to facilitate this check. If the address of the next HU was not on the ABS frame, the newly identified HU was assigned the same probability of selection as the originally selected HU . Interviewers repeated this step until either the address of an HU on the ABS frame was found or the block was circumnavigated. Following these procedures, a total of 163 new addresses were identified in 213 CHUM segments and were released to the field for data collection.

### 3.3 American National Election Studies

The 2008 Time Series Study within the National Science Foundation's ANES consisted of 2,322 completed CAPI and audio computer-assisted self-interviewing (ACASI) interviews on electoral participation, voting behavior, and public opinion (ANES, n.d.; Howell, 2015). The survey was administered to English- or Spanish-speaking U.S. citizens of voting age who were also U.S. residents (Howell, 2015).

A five-stage sample design was used. Counties, census tracts, and census block groups were selected in the first three stages. A sample of residential mailing addresses was selected from each selected block group in the fourth stage, and FIs randomly selected up to one eligible person from each household in the fifth stage. Although the foundation of the frame was ABS, CHUM was implemented in all sampled segments. The CHUM data were collected using a combination of paper maps and lists and an iPAQ handheld computer, which was used for entering addresses. CHUM resulted in the addition of 282 new addresses (more than 6 percent of HUs in the sampled segments) to the frame at a cost of 0.8 hours per complete.

NSF has gained much knowledge from this first implementation of CHUM. They determined that the 2 -hour training allotted to CHUM was insufficient, especially since additional CHUM questions surfaced during evening study halls. Once the training was completed, FIs continued to need more than anticipated clarification on procedures, which was true even for the most experienced FIs. The FIs often had difficulty finding the starting point, which, in some areas, was far from the rest of the sample in the segment. This happened most often in large, rural segments. The geocoding from the vendor, MSG, had many errors. Sometimes, FIs had difficulty locating addresses that had been selected and added after CHUM.

An additional challenge related to CHUM was that added cases were not "spawned" to the field in real time. Instead, they were first sent to the statisticians for verification. The statisticians then delivered additional sample in four different waves throughout the first month of data collection. By the time some of these cases were released, the FI had already finished working in the area and had to return to work the new cases.

All of these challenges have since been addressed, and the most recent field studies have had significantly fewer difficulties implementing frame enhancement.

### 3.4 National Survey of Family Growth

The NSFG is a repeated cross-sectional survey of individuals 15 to 44 years of age that has been conducted since 1973. Although it was previously conducted sporadically, it was moved to continuous data collection in 2006. The NSFG covers topics such as family life, marriage and divorce, pregnancy, infertility, use of contraception, and men's and women's health (Centers for Disease Control and Prevention [CDC], 2016a, 2017). The interviews were administered by female FIs using CAPI and ACASI modes (CDC, 2016b).

Although the NSFG design has undergone several changes over the years, the survey currently uses a stratified five-stage probability sample, with PPS selection within four key race/ethnicity domains. In the first two stages, PSUs and secondary sampling units (SSUs) were selected. In the third stage, FIs used an electronic listing application (ELA) (referred to as "enhanced listing" in Section 4.6.1) to update an ABS frame. In SSUs for which lists were unavailable (roughly 2 percent of the segments), FIs conducted field enumeration. Once listing was complete, HUs were randomly selected, then contacted and screened by FIs. In the fourth stage, FIs selected one eligible person to interview from each household containing eligible persons. During the fifth and final phase of sample selection, a subsample of nonresponding cases was selected for additional follow-up (CDC, 2016a, 2016b).

Data collection is ongoing, and the sample design was created so that data collected between 2011 through 2019 could be combined to create a nationally representative sample. However, a sample of PSUs are drawn annually, and samples of area segments and housing units are released quarterly. For each 12-week period, interviewers are expected to enhance list the following quarters' PSUs and complete their assigned caseloads for screening and interviewing. Approximately 5,000 addresses are sampled quarterly, yielding an average of 1,911 completed screening interviews and 1,302 completed main interviews (CDC, 2016a).

FIs were trained to list using the ELA. The application allowed them to update existing addresses, add new addresses, and delete missing addresses. The ELA also allowed for addresses to be reordered, which was necessary for the application of the half-open interval procedure and simplified the process of locating sampled addresses at a later date for interviewing. Maps were loaded into the ELA, and FIs could annotate the maps to mark dangerous areas, describe the location of units, and more. FIs could also record in the ELA any pertinent observations, such as notes about dangerous neighborhoods, locked buildings, and controlled access. This information was used to estimate nonresponse and prioritize follow-up efforts (CDC, 2016a).

Once complete, listing data were reviewed by experienced office staff to check for completeness. The office staff also checked for accuracy using resources such as online maps, street views, and satellite images. In addition, automated quality control checks were used as a check for completeness and accuracy. These checks included (1) comparing census counts of HUs with the counts of listed units reported by FIs, (2) reporting consistency check violations that FIs made when using the ELA, and (3) flagging listings that (based on ELA time stamps) took an unusually high or low amount of time to complete (CDC, 2016a).

FIs were trained to check for missed HUs when they were in the field interviewing. The FI laptops contained a system called SurveyTrak that listed all HUs in each segment. FIs were
instructed to ensure that a random subset of HUs were listed and to look for any that might have been missed. In particular, FIs were to check mailboxes, doors, and utility meters for indications of missed units. FIs were also trained to ask screener respondents for information about additional HUs in their structure (CDC, 2016a).

When FIs discovered one or two missing HUs, they were instructed to add them to the SurveyTrak list and attempt a screening at each of the missing units. If more than two missing units were discovered, FIs were instructed to call sampling office staff for directions on how to proceed. The sampling office would then subsample the original and additional HUs and add new cases to the FI's sample. This resulted in unequal probabilities of selection, so adjustments accounting for this subsampling were incorporated into the final weights (CDC, 2016a).

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## 4. Coverage

The bulk of this report focuses on the extent to which moving to a hybrid address-based sampling (ABS) frame affects coverage and coverage bias. This chapter answers these broad questions while also investigating several nuances of the frame and design choices that affect coverage.

### 4.1 What Does "Coverage" Mean?

Coverage is generally defined as the extent to which the target population is included in the sampling frame (and therefore has a chance of selection). The coverage rate is the proportion of the target population that is listed in the frame. In the context of ABS frames for the National Survey on Drug Use and Health (NSDUH), the coverage rate is the proportion of dwelling units (DUs) included on the ABS frame.

The term "coverage" has been used somewhat loosely in the literature. To clarify, a review of various types of coverage error as defined by Kish (1965) is discussed. Undercoverage refers to the extent to which target population units are missing from the frame. Undercovered units for the ABS frame are discussed in Section 4.5. The undercoverage rate for NSDUH is the percentage of DUs not in the ABS frame. Thus, the coverage rate can be thought of as one minus the undercoverage rate. Overcoverage, on the other hand, refers to addresses on the frame that are extraneous to the target population. The overcoverage rate for NSDUH is the number of such extraneous addresses (e.g., businesses) divided by the number of DUs in the target population. ${ }^{14}$ Figure 4.1 illustrates these concepts.

Figure 4.1 Coverage Concepts


[^7]The gross coverage error rate refers to the sum of the undercoverage and overcoverage rates. For example, a frame with 5 percent undercoverage and 3 percent overcoverage has 8 percent gross coverage error. Although this error rate provides a more complete picture of the frame's limitations, the gross coverage error rate is rarely calculated. Instead, researchers often rely on an estimate of the net coverage error rate, the difference between the undercoverage and overcoverage rates ( 2 percent undercoverage in this example). The net coverage rate is one minus the net coverage error rate and is most frequently estimated by dividing the number of DU addresses on the frame by an estimate of the DUs in the population.

Even with these definitions in hand, estimates of coverage or net coverage in the literature are influenced by many factors, including the following:

- whether the authors are estimating coverage or net coverage (Section 4.3);
- the types of addresses undercovered on the frame (Section 4.5);
- whether the vendor has supplemented the frame with addresses from other sources (e.g., the No-Stat file) (Section 4.4.2);
- the types of addresses the frame builder chooses to include or exclude (e.g., addresses flagged as seasonal homes) (Section 4.5.4);
- the definition of the target population (e.g., housing units [HUs] vs. occupied households) (Section 4.2);
- the choice of estimate for the target population (e.g., decennial census vs. Claritas) (Section 4.3); and
- whether the entire frame and national target population are considered or just the sample segments (segments are prone to geocoding error, which contributes to coverage error, whereas geocoding error is irrelevant for total U.S. coverage estimates) (Section 4.5).

Each of these factors and the various types of coverage are considered and documented throughout this report.

### 4.2 What Is the Current National Coverage Rate of the ABS Frame?

According to the American Association for Public Opinion Research (AAPOR, 2016), ABS coverage estimates for the United States have been in the range of 90 to 98 percent. OMB Guideline 2.1.3 states that U.S. federal government surveys should have a coverage rate of at least 95 percent overall and for major strata. If the coverage rate falls below 85 percent, coverage improvement should be considered, and a coverage bias analysis should be conducted (WhiteHouse.gov, 2006).

As previously noted, many factors influence the estimated coverage rates. Staab and Iannacchione (2003) estimated national net coverage ratios with Claritas control totals as 97 percent. Eckman and English (2012a) estimated national net coverage of census HUs as 92.3 percent using only city-style addresses and 86.7 percent using only high-confidence geocoded city-style addresses. Kennel and $\mathrm{Li}(2009)$ estimated national coverage as 88.6 percent.

Table 4.1 summarizes various estimates in the literature but indicates some of the features of the estimates that may influence the results.

Table 4.1 Summary of ABS Frame Coverage Rate Estimates, by Publication

| Authors | Year | Target Population | Control Total | Measure ${ }^{1}$ | Overall Estimate, \% | Rural <br> Estimate, \% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| O'Muircheartaigh, Eckman, \& Weiss | 2002 | 52 segments, all HUs | Field listings | Match rate | 87 |  |
| O'Muircheartaigh, Eckman, \& Weiss | 2002 | 14 segments, all HUs | Enhanced listing | Match rate | 93 |  |
| Staab \& Iannacchione | 2003 | HUs in all local areas (bigger than ZIP Codes) in total United States | Claritas households (occupied HUs) | Net coverage | 97 | 86.3 |
| Dohrmann, Han, \& Mohadjer | 2006 | Civilian noninstitutionalized population, including GQs in 3 geographic areas | 2000 census, total units | Net coverage | 96 | 76.8 |
| O'Muircheartaigh et al. | 2006 | 100 segments, all HUs | Field verifications | Match rate | 77 |  |
| O'Muircheartaigh et al. | 2006 | 96 segments (excluding 4 problem segments), all HUs | Field verifications | Match rate | 83 | 51-56 |
| Iannacchione et al. | 2007 | 22 rural and 28 urban segments in North Carolina, all HUs | Field-verified HUs | Weighted match rate | 82.1 | 77.5 |
| Iannacchione et al. | 2007 | 22 rural and 28 urban segments in North Carolina, occupied HUs | Field-verified HUs | Weighted match rate | 95 | 93 |
| O'Muircheartaigh, English, \& Eckman | 2007 | Set of segments, all HUs | "Best" list | Match rate | 81 |  |
| Kennel \& Li | 2009 | Total U.S. HUs | Census MAF | Match rate | 88.6 |  |
| Kennel \& Li | 2009 | Representative sample areas | Census MAF | Match rate | 91 |  |
| Kennel \& Li | 2009 | Representative sample areas | Sample ground canvassing | Match rate 1 | 82.5 |  |
| Kennel \& Li | 2009 | Representative sample areas | Sample ground canvassing | Match rate 2 | 89.5 |  |
| Iannacchione et al. | 2010 | Noninstitutional sample HUs in 200 segments | Traditional listings |  | 71.6 |  |
| Iannacchione et al. | 2010 | Noninstitutional sample HUs in 200 segments | Traditional listings |  | 78.5 |  |
| Shook-Sa, McMichael, Ridenhour, \& Iannacchione | 2010 | Screened and eligible DUs in 200 segments | Screened and eligible DUs |  | 89.6 |  |
| Shore, Montaquila, \& Hsu | 2010 | HUs in segments in 7 PSUs for the NCS | Field listings | Match rate | 84 |  |
| Harter et al. | 2011 | All HUs in 10 urban segments and 10 rural segments | Traditional listings | Match rate |  | 45 |
| Harter et al. | 2011 | All HUs in 10 urban segments and 10 rural segments | Traditional listings | Net coverage |  | 55.3 |

Table 4.1 Summary of ABS Frame Coverage Rate Estimates, by Publication (continued)

| Authors | Year | Target Population | Control Total | Measure ${ }^{\mathbf{1}}$ | Overall <br> Estimate, \% | Rural <br> Estimate, \% |
| :--- | :--- | :--- | :--- | :--- | :---: | :---: |
| Shook-Sa, Currivan, <br>  <br> Iannacchione | 2013 | Subsample of NSDUH <br> HUs | Completed <br> subsample HUs | Match rate | 93.2 | 72.8 |
| Shook-Sa et al. | 2013 | Subsample of NSDUH <br> HUs | Completed <br> subsample HUs | Match rate | 93.2 | 76.6 |
| Eckman \& English | 2012a | Number of HUs that <br> should be on the frame | 2010 Census <br> HU count | Net coverage | 92.3 |  |

ABS = address-based sampling; DU = dwelling unit; GQ = group quarter; $\mathrm{HU}=$ housing unit; MAF = Master Address File; NCS = National Children's Study; NSDUH = National Survey on Drug Use and Health; PSU = primary sampling unit.
${ }^{1}$ The match rate is the proportion of addresses on the ABS frame that matched to an address on the control frame.
Even if the overall coverage of the ABS frame is near 100 percent, the coverage rate for a given sample of segments could be significantly lower. Table 4.1 shows that many of the segment-based estimates (Harter et al., 2011; Iannacchione et al., 2007, 2010; Kennel \& Li, 2009; O'Muircheartaigh et al., 2002, 2006, 2007; Shore et al., 2010) are lower than the estimates for the total United States. This is due to geocoding error (Section 4.5.1). The smaller the geography of a segment, the greater the risk of coverage error due to geocoding error.

For NSDUH, the emphasis is on segment-level coverage because it is at the segment level that DU-level sampling frames are created. Researchers have demonstrated that segment coverage rates can vary considerably, even within the same primary sampling unit (PSU). Table 4.2 illustrates this point in the last column, where net coverage rates and match rates for segments in any one row can cover a wide range. Thus, the national coverage rate is less important for the NSDUH than the method used to calculate segment-level coverage (Section 4.3) or the method to determine where to list, enhance, or use the ABS frame (Section 4.7).

Table 4.2 ABS Frame Coverage and Net Coverage Estimates for Individual Segments

| Authors |  |  |  |  | Match Rates or Net <br> Coverage Rates for |
| :--- | :--- | :--- | :--- | :--- | :---: |
| Dohrmann, Han, \& Mohadjer | Year | Target Population | Control Total | Measure ${ }^{\text {I }}$Individual Segments, \% |  |
| Dohrmann et al. | Residential addresses <br> in SSUs in 6 counties | Field listings | Match rate | 74.9 to 99.8 |  |
| English, O'Muircheartaigh, <br> Dekker, Latterner, \& Eckman | 2007 | Residential addresses <br> in 2 areas with GQs | HUs that should have <br> been listed in 17 <br> segments in <br> Waukesha, Wisconsin | Field-verified <br> lists (best), <br> includes new <br> construction and <br> chronically <br> vacant HUs | Match rate |

[^8]
### 4.3 What Is the Best Method to Assess the Segment-Level Coverage Rate?

To date, no comparative research on the coverage estimation methods has been conducted. Three primary decisions need to be made when designing a method:

- Which statistical technique (ratio vs. model) should be used to estimate coverage?
- If using a model, what type of model should be used and with what covariates?
- What dataset will serve as the source of the population estimate?

The options for each of these decisions are outlined below, but additional research that compares the accuracy, cost, fit-for-purpose, and availability of the various options is needed prior to identifying the optimal methodology.

Two primary statistical techniques are available to predict segment-level coverageratios and models. For the ratio method, the frame count of the DUs is divided by an estimate of the true DU count for an area, producing an estimate of the net coverage rate (Section 4.1). However, the net coverage rate can be deceiving. A net coverage ratio of 100 percent can mask significant undercoverage and overcoverage. Even so, the net coverage ratio is extremely quick and easy to compute with data available at the beginning of the study. It is easy to adjust ratio thresholds (Section 4.7) for cost considerations, and often ratios are at least a first step in evaluating segment-level coverage.

Models have also been used to predict coverage. Montaquila, Hsu, and Brick (2011) and Hsu, Montaquila, and Brick (2010) used a linear regression model, whereas English, Bilgen, and Fiorio (2012a) used logistic regression. O'Muircheartaigh et al. (2007) and O'Muircheartaigh, English, Latterner, Eckman, and Dekker (2009) used decision tree models to divide segments into categories of coverage rates. O'Muircheartaigh et al. (2009) also estimated overcoverage by a similar modeling process, so that gross coverage error rates and net coverage error rates could be computed, if desired. The purpose of some models was to estimate the coverage rate, whereas other models were developed to cluster cases with similar coverage rates so that the appropriate frame-construction method could be applied. For NSDUH, options include (1) collecting the same auxiliary variables and assuming that the authors' models are applicable for the NSDUH or (2) fitting a NSDUH-specific model based on the auxiliary variables available to NSDUH. The validity of either approach would require thorough testing prior to adoption and periodic validation to ensure that the accuracy of the models do not change over time.

Model-fitting requires that model inputs be available for all segment and a coverage estimate (the model dependent variable) be available for a sample of segments. The model would be fit using the segments for which a coverage estimate was available. The coefficients derived from the model would then be used to predict coverage for the remaining segments. Typically, these coverage estimates are match rates - the proportion of addresses on the ABS frame that match to addresses from existing field listings. Although much of the literature estimates coverage retrospectively through match rates, the goal is to predict coverage for segments that have not yet been listed-hence, the models.

Models require an assortment of auxiliary variables as covariates. The auxiliary variables might come from decennial census or American Community Survey (ACS) data on the segment geographical areas, or they could be derived from other federal data related to the geographies. Such variables include segment area in square miles, number of blocks, population density, socioeconomic status, and racial/ethnic population proportions. Auxiliary variables might come from the ABS frame itself, such as the proportion of city-style addresses in the segment. The ratio estimate of net coverage, previously described, is a popular and useful auxiliary variable. Shook-Sa et al. (2010) tried using block and address-level variables as model covariates. To be useful in production, the auxiliary variables should be available for the sample segments prior to determining how the sample frame in the segment will be constructed. Additionally, the same variables, calculated in the same ways, should be available across time so that comparable model-based coverage estimates can be constructed across time.

Because a standardized set of covariates that apply to any segment in the nation to determine coverage has yet to be developed, models require time and effort to determine a set of significant covariates that adequately explain the variations in the coverage rates and that adequately predict the coverage rates of an independent set of segments. Even if a model is set for a given survey, the frame evolves over time (Section 4.4.4), and the models should be evaluated periodically and updated as needed.

Both net coverage ratios and coverage models require control totals, which are estimates of the true DU count in the segments. Dohrmann et al. (2006), Montaquila et al. (2009), and Eckman and English (2012a) used decennial census counts. Alternatively, 5-year ACS counts have been used for projects with larger segments, such as the 2015 Residential Energy Consumption Survey (RECS). If the geography is a major metropolitan area or the total United States, then the American Housing Survey (AHS) could be used. Staab and Iannacchione (2003) purchased counts from Claritas as a substitute for aging census counts. For retrospective match rates used in evaluations and models, Dohrmann et al. (2007), English et al. (2009), Harter et al. (2011), Montaquila et al. (2009), O'Muircheartaigh et al. (2002, 2006, 2007), and Shore et al. (2010) used prior field enumerations (FEs) or field-enhanced frames. Shook-Sa et al. (2010, 2013) and Iannacchione et al. (2010) used a subsample of screened NSDUH HUs for research only.

The estimates of true totals are also subject to error. Federal statistics will always be at least somewhat dated by the time they are available. Claritas' methodology is considered proprietary and cannot be evaluated. Also, it should be noted that FE is subject to coverage errors as well. Eckman and Kreuter (2013) indicated that FE undercovers 13.6 percent of HUs, and Cunningham, Hunter, Justin, Morton, and Stolzenberg (2006) estimated that FE had a 4.9 percent undercoverage rate for NSDUH-eligible DUs, primarily due to errors with the path of travel, invisible segment boundaries, complex numbering systems, DUs on street corners, and incomplete address information in rural areas. O'Muircheartaigh et al. (2009, p. 6194) stated, "The USPS [U.S. Postal Service]-derived list was a more effective representation of reality than the traditional list in most cases."

The choice of estimate for the "truth" can get into some subtleties. Is the frame trying to cover the population of eligible DUs (e.g., occupied HUs) or the set of all DUs that would have been listed? FE often intentionally includes vacant and partially constructed HUs to maximize
coverage, even though some will be out of scope at the time of screening and interviewing. Prior field listings for the sample segments are rarely available, so the comparable issue for other sources is whether to use total HUs or occupied HUs (households). Total HUs are expected to be closer to field listing counts, and occupied HUs are expected to be closer to the set of HUs eligible for the study. The choice depends on the purpose, and the rates will be noticeably different. For a set of urban and rural segments, for example, Iannacchione et al. (2007) estimated net coverage rates as 82 percent of all HUs and 95 percent of occupied HUs. $\underline{15}$

Another factor is that prior field listings can include GQs in DU counts, but other sources are more likely to have HU counts without GQs. Dohrmann et al. (2006) estimated net coverage in a set of urban/suburban segments as 99 percent without GQs and 79 percent with GQs. ${ }^{16}$

When field-listed addresses are available, matching with ABS addresses is surprisingly difficult. (It helps to first standardize the field listing addresses into standard USPS format. A service such as MailListCleaner ${ }^{\text {TM }}$ can often clean an uploaded file in minutes, or the USPS can clean the file in weeks.) When low match rates are accompanied by high overcoverage, the likely problem is difficulty in matching; in this case, the match rate may understate the true coverage of the frame.

### 4.4 Under What Circumstances Does Coverage Vary?

When the same methods are used, the same set of addresses are included in the ABS frame, and the same control totals are used, coverage estimates for the same geography can still vary for a number of reasons, as discussed in this section.

### 4.4.1 Vendor

Vendors who base their frames on USPS sources have either a Computerized Delivery Sequence file (CDS) license or a Delivery Sequence File Second Generation ( $\mathrm{DSF}^{2}$ ) license (AAPOR, 2016). Under a CDS license, a vendor must demonstrate that it "owns" a given ZIP Code. A vendor is said to "own" a ZIP Code if it already has address records for 90 to 110 percent of mailing address points in that ZIP Code. Once confirmed, the USPS will standardize the addresses that the vendor has and supplement it with any addresses on the USPS's CDS that are not on the vendor's list. A vendor may be missing all or most addresses in ZIP Codes for which sufficient coverage requirements have not been met and the CDS is not accessible to the vendor, but such ZIP Codes are rare. McMichael (2015) compared an ABS frame obtained through a CDS-licensed vendor, Compact Information Systems [CIS], ${ }^{17}$ with other USPS products by ZIP Code and concluded that the ABS frame has 93.1 percent of all U.S. ZIP Codes. The frame is missing (1) 762 ZIP Codes that correspond to individual businesses, governments, or universities, and (2) 2,052 primarily business ZIP Codes that have 8,052 potential residential addresses, 2,889 of which are likely to be active addresses. In other words, the HU coverage error due to missing ZIP Codes was less than 0.01 percent of all residential

[^9]addresses. Dohrmann et al. (2006) found very little difference in frame files from Valassis and CIS after deduplication and other frame preparations.

Although no research has been conducted to compare CDS- and DSF $^{2}$-based frames, frames obtained through CDS licenses are considered better than those acquired through DSF $^{2}$ licenses. Under a DSF ${ }^{2}$ license, the USPS will standardize (e.g., change "St" to "Street") addresses provided from the vendor, but it will not supplement the list with any missing addresses.

Vendor lists might also differ in the frequency of updates, method of deduplication, and whether the vendor supplements the frame with addresses from other sources (AAPOR, 2016). As long as the main vendors update their files with reasonable frequency, the impact should be very minor.

### 4.4.2 USPS Supplemental Files

Coverage of the standard ABS frame acquired through a CDS or DSF $^{2}$ license can be altered by supplementing the frame with additional data sources. The USPS also has a companion No-Stat file primarily composed of addresses that do not receive mail delivery (e.g., new construction). Shook-Sa et al. (2013) found that including all No-Stat addresses in rural areas except drop units (Section 4.4.5) increased coverage in those areas by about 3.8 percent but introduced inefficiency by adding many inactive addresses. They also found that by adding only active No-Stat addresses to the rural areas, coverage in those areas improved by about 2.2 percent with no apparent loss of efficiency. As shown in Figure 4.2, which first appeared in Shook-Sa et al. (2013), significant portions of locatable addresses for some counties are in the No-Stat file.

Figure 4.2 Percentage of Locatable Addresses from No-Stat File, by County


Martin and Loudermilk (2008) suggested the possibility of improving coverage by including addresses that appeared on the residential file or a USPS update at least once in the past 12 months, which might add some temporarily inactive addresses.

### 4.4.3 Urbanicity

Several studies have noted that coverage is far better in urban and suburban areas than in rural areas (e.g., Dohrmann et al., 2006; O'Muircheartaigh et al., 2002; Staab \& Iannacchione, 2003). Historically, rural areas had a higher rate of post office boxes and other unlocatable addresses.

However, it is not the case that all urban areas are suitably covered and all rural areas are not. Dohrmann and Sigman (2013, p. 2) noted

Montaquila et al. (2009) found that although coverage rates were generally higher in urban areas, there was variation in coverage rates at the segment level within PSUs, even in very urban PSUs. This variation is such that the USPS-based lists may appear to provide near-complete coverage of some segments and inadequate coverage of others within the same PSU.

Dohrmann and Sigman (2013, p. 8) also stated, "It was our belief that urban differences are primarily due to census-geography geocoding errors whereas rural differences are primarily due to ABS undercoverage." These variations may also be affected by the address type cited in Section 4.4.5.

### 4.4.4 Time

As discussed in Section 4.4.3, coverage has been more problematic in rural areas, particularly in areas that do not have home delivery of mail (Staab \& Iannacchione, 2003). Several authors noted that coverage in rural areas is improving as rural route boxes, post office boxes, and other unlocatable addresses are converting to city-style addresses to assist 911 emergency services. O'Muircheartaigh et al. (2009) found that coverage of frames in rural areas was getting better, at least in the 2003 to 2007 time frame, and that some rural areas were ready for ABS. However, a more current evaluation of coverage in rural areas may be needed to determine whether the frames now have sufficient coverage in most places.

Unangst and McMichael (2015) studied quarterly changes in the ABS frame over nine quarters from October 2012 through October 2014. The ABS frame grew throughout, primarily adding city-style addresses that replaced highway contract and rural route addresses as well as accounted for new housing growth.

### 4.4.5 Address Type

In addition to the address, the full ABS frame includes several additional variables that offer additional information on the address. Sampling statisticians may use these variables to further exclude duplicate, unusable, or out-of-scope addresses prior to sample selection.

Virtually all studies exclude post office boxes that are not an HU's only way to receive mail. Individuals with post office boxes that are not flagged as the only way to get mail may be sampled both through their post office box and their street address, doubling their probability of selection. Excluding post office boxes removes multiple chances of selection for those HUs.

Most in-person surveys that are based on geographical segments will exclude addresses that cannot be geocoded (latitude and longitude attached) and located because it is unknown in advance whether the addresses are inside or outside the segments. Often, that means limiting the frame to city-style addresses (those with a street number and name, city name, state abbreviation or name, and ZIP Code) and excluding post office boxes, even those that are an HU's only way to receive mail (approximately 1 percent of households have post office boxes only), rural route boxes, and highway contractor boxes. Nationally, 98.8 percent of deduplicated HUs in an ABS frame have city-style addresses (McMichael, 2017). (The fact that addresses may be geocoded to the wrong block is a separate issue, as discussed in Section 4.5.1.)

A frame variable also identifies drop points, which are mail receptacles that serve multiple HUs without unit numbers. Typically, the mail is distributed among the HUs by someone responsible for mail for the entire building or complex. If the number of drop units at the drop point is known, the frame could have a record for each unit, assuming the field interviewer (FI) can use a path of travel to list or at least distinguish among the units. Alternatively, AAPOR (2016) suggested interviewing all units at a selected drop point. For mail surveys or advance letters, however, the drop points may have to be excluded because the survey has no control over which unit(s) receive(s) the mail. Drop points are especially problematic in large, older cities, such as Boston, Chicago, New York City, and Philadelphia (Amaya, 2017). In Queen's County, New York, for example, drop units account for 27 percent of all HU addresses in an ABS frame (McMichael, 2017).

The address files contain flags for urban HUs that have been vacant for 90 days or more and for seasonal and educational HUs. Seasonal addresses are addresses that the USPS believes are consistently vacant for 3 or more months out of the year. Educational HUs are those that have high turnover in the names associated with the address. These addresses are typically vacant in the summer and are generally found near college and universities. Vacant and seasonal HUs are often ineligible for a study, so excluding them might save costs. However, researchers have found that these flag variables are not necessarily reliable. For example, vacancy status can change quickly. Unangst and McMichael (2015) found that 23 percent of addresses flagged as vacant were occupied a year later. Harter (2016) summarized the confirmed inaccuracy rates of vacancy flags as evaluated by other researchers and shown in Table 4.3; these rates are lower bounds on the true inaccuracy rates. The resulting coverage and efficiency trade-off for inaccurate flags makes the use of such flags risky.

Table 4.3 Inaccuracy of USPS Vacancy Flag for Current Vacancy Status

| Source | Percentage of Sample <br> HUs Flagged as <br> Vacant | Percentage of <br> Flagged HUs <br> Confirmed Occupied | Percentage of Not <br> Flagged HUs Deemed <br> Vacant or Returned <br> Undeliverable |
| :--- | :---: | :---: | :---: |
| Amaya, LeClere, Florio, \& English (2014) | 6.5 | 9 | 8 |
| Kali, Sigman, Ren, \& Jones (2014) | $<3$ | 40 | -- |
|  <br> Waggy (2016) | 3 | 20 | 4 |

$\mathrm{HU}=$ housing unit; USPS $=$ U.S. Postal Service.

### 4.5 What Types of Dwelling Units Are Undercovered?

Generally, ABS frames include only residential or primarily residential addresses. Therefore, addresses that are primarily businesses but may include some HUs are excluded. Of particular interest to NSDUH, college dormitories and other DUs that receive mail through a college or university address with its own ZIP Code are not included on the residential frame (McMichael, 2015).

ABS frames do not include simplified addresses that have just a city, state, and ZIP Code. Otherwise, undercovered units tend to fall into one of the categories described in the following sections: unlocatable addresses, incorrectly geocoded addresses, group quarters (GQs), American Indian or Alaska Native (AIAN) tribal areas, certain structure types such as trailers, and frame errors.

### 4.5.1 Unlocatable Addresses and Geocoding Error

Dohrmann, Kalton, Montaquila, Good, and Berlin (2012) and Eckman and English (2012a, 2012b) described the geocoding process. Addresses are matched to a database of street segments for which address ranges and geocodes are available. The specific street address is interpolated within the street segment. Then block geographies are overlaid so that the HU geocodes are included within a block's set of geographic boundaries. The geocodes may not be exactly right, and the block overlay may be offset slightly, so that an HU may even be on the wrong side of the street. Usually, the assumption is that the address can be geocoded to the correct block, which is the critical objective. If the address cannot be assigned to a street segment, then the process defaults to the centroid of the ZIP +4 of the address, the ZIP +2 , or the centroid of the ZIP Code, which may or may not be within the sample segment. The ability to use the less precise geocodes is why more addresses can be geocoded to larger segments than to smaller segments. For example, segments defined by tracts will have fewer geocoding errors than segments defined by individual blocks. The inability to geocode some addresses to street segments is why segments suffer more geocoding error than larger geographies, and the coverage rates for segments are lower than those for the total United States, states, counties, or ZIP Codes. While larger segments improve geocoding accuracy, they also affect field operations such as increasing travel costs within segments.

Some addresses such as post office boxes and rural route boxes cannot be geocoded and are intentionally excluded from segment frames for in-person interviewing, contributing to undercoverage. Some vendor frames do not include simplified addresses, another form of
unlocatable addresses. Dorhmann et al. $(2006,2007)$ estimated that 15 percent of rural addresses and about 0.2 to 4.9 percent of urban and suburban addresses were not geocodable. Because rural areas have been converting to city-style addresses for emergency 911 services, the geocodable rate should currently be higher and continue to increase. The locatable rate should be approximately the same as the percentage of city-style addresses, which currently is 98.8 percent (McMichael, 2017).

Even among addresses that can be geocoded, error may occur, resulting in incorrect inclusion or exclusion from the segment. Eckman and English (2012a) estimated that 16.7 percent of ABS addresses could not be geocoded to the correct street segment or block. For nonmetropolitan addresses, 45.1 percent could not be geocoded to the street segment or block. Among city-style addresses, 6.1 percent could not be geocoded to that level. These findings were similar to those of the NSDUH MLFS cited in Iannacchione et al. (2012) and Shook-Sa et al. (2010) (Table 4.4). City-style address conversion and larger sample segments, such as census block groups, should reduce geocoding error and minimize its effect on coverage. However, even if the address can be geocoded to the right segment, there may still be differences between the geocoded location and the ground truth, requiring the interviewer to "hunt" for the selected address (see Section 6.5 for more details).

Table 4.4 Cumulative Level of Geocoding Accuracy, by Urbanicity Level of Accuracy

| Segment Type | Overall |  | Urban Segments |  | Rural Segments |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number | Weighted <br> Percent | Number | Weighted <br> Percent | Number | Weighted <br> Percent |
|  | 2,689 | 89.9 | 2,273 | 92.5 | 416 | 76.6 |
| Census Block Group | 3,186 | 99.3 | 2,605 | 99.8 | 581 | 96.5 |
| Census Tract | 3,226 | 99.9 | 2,619 | 100.0 | 607 | 99.8 |
| County | 3,229 | 100.0 | 2,619 | 100.0 | 610 | 100.0 |

Adapted from Table 2 of Shook-Sa et al 2010.
In addition to urbanicity, geocoding error has also been found to be associated with high-rise carrier routes, multifamily buildings, and irregularly shaped segments (i.e., nonrectangular segments) (O'Muircheartaigh et al., 2006; Zandbergen, 2011). An urban/rural indicator and segment square miles could easily be added to an ABS frame for NSDUH. The ABS frame has high-rise carrier routes and multifamily building indicators, but if these addresses are undercovered, they may or may not adequately indicate a problem segment. At this point, the only way to identify irregularly shaped segments is by manual review.

Geocoding error is also dependent on the quality of the underlying georeferencing database (if used) and geocoding method (Zandbergen, 2011).

### 4.5.2 Group Quarters

ABS frames generally include addresses that are residential or primarily residential, which would exclude some of the GQs. Many GQs, such as group homes, halfway houses, and fraternity/sorority houses, are in traditional HU stock and are included in the residential address frames. GQs such as dormitories and shelters generally are not in the residential ABS frame because they are listed as businesses, delivered offsite to a central repository, or are not delivered
by the USPS (Dohrmann et al., 2006). For example, many universities have their own mail delivery infrastructure. Mail is delivered to the university's postal service department and sorted and delivered there. As a result, the final delivery point is not on the CDS.

Most ABS researchers do not need to address the GQ issue because GQs are out of scope for their studies, but this is a concern for NSDUH. Currently for NSDUH, GQs are routinely listed in the field along with HUs. In 2017, a total of 18,429 GQs were listed ( 0.4 percent of the total frame). Although only a small portion of the entire sample, exclusion or underrepresentation on the ABS frame introduces a risk of coverage bias especially for those populations covered by the GQs, e.g., college students. As part of the 2017 NSDUH coverage bias analysis (Section 2.3), a subset of 2015-2016 respondents that excluded GQs (among other addresses unlikely to be found on the CDS) was compared to the full set of 2015-2016 respondents. By excluding GQs, it was expected that the subsample would disproportionately exclude full-time college students who often live in dormitories. Among full-time college students aged 18 to 22 , 10 percent of prevalence estimates constructed from the subsample were significantly different from the full sample. This was in line with the overall proportion of estimates that were found to significantly differ across all domains and suggests that the exclusion of GQs may not be large enough to introduce large amounts of coverage bias among full time college students (see Appendix A for more information on the analyses and results).

GQs complicate the control totals for coverage estimates and the frame construction. Although census population estimates include persons living in GQs, census HU estimates do not include GQs. The Census Bureau commissioned a study by the National Research Council (2012) to recommend ways of improving GQ population estimates for substate geographies in the ACS; with an inadequate sample of GQs, many total population estimates in ACS substate areas were suspect, especially small counties with relatively large GQ populations. The National Academies of Sciences, Engineering, and Medicine (2016) followed up with ideas for tailoring the ACS for GQ respondents in its workshop for reducing ACS respondent burden.

Iannacchione et al. (2010) recommended treating segments with known GQs separately from other segments in deciding whether to use an ABS frame. In fact, Iannacchione et al. (2012) recommended assigning segments with concentrations of GQ populations to FE rather than ABS as much as possible. Identification of such segments is best done with decennial census data.

Although not inclusive of all types of GQ, the Integrated Postsecondary Education Data System (IPEDS) database includes a list of higher education institutions. Since 2016, the National Health Interview Survey has geocoded the IPEDS database to identify higher education institutions that fall into its sample segments. Institutions are contacted via telephone and asked to provide a list of dormitories. The resulting list is added to the frame prior to sample selection. However, the National Center for Health Statistics will no longer implement this method in 2018 due to high costs and difficulty screening within GQs (see Section 3.1 for additional details).

If GQs are discovered in the interviewing stage, they currently are handled by the "bust" procedure if the number of units in the GQ is 50 or more (Center for Behavioral Health Statistics and Quality, 2017). That is, interviewers create a list and send to the sampling statisticians to add to the frame and sample. Smaller GQs that are found are not added to the sample. This same rule
could apply with an ABS frame, if deemed appropriate, but more GQs will be found because they tend to be absent from the ABS frame. More research is needed to understand the extent of the undercoverage issue for GQs for an ABS only frame and how accurately segments with GQs can be identified so they may be assigned to FE.

### 4.5.3 American Indian and Alaska Native (AIAN) Tribal Areas

According to Dohrmann and Sigman (2013, p. 2), "Many researchers agree that in some very rural PSUs, such as those containing American Indian reservations, USPS mail delivery is not pervasive enough for ABS to be effective." The ABS frame includes only addresses to which the USPS delivers. Several AIAN tribal areas have their own mail delivery infrastructure. As a result, the USPS does not deliver to these areas, and addresses on many reservations are not included in the frame. The literature does not show that a flag for the presence of a reservation or the percentage of the AIAN population in a segment has been used as an auxiliary variable in modeling coverage, but it would be worth testing such a variable. Currently, NSDUH segments in AIAN tribal areas are identified following data collection for analysis purposes, but this activity could be performed prior to frame construction. Although an AIAN variable is available at the block level, the segment-level indicator is based on the majority of blocks in a segment.

### 4.5.4 Building Characteristics

Certain types of HUs are more likely to be omitted from an ABS frame than others. New construction may not be on the frame yet. Unangst and McMichael (2015) found that nearly half of new construction addresses on the No-Stat file transferred to the CDS-based frame within a year.

Temporary trailer homes, conversions from businesses, illegal apartments, apartments without separate street numbers, informal housing, units in multiunit buildings, and coach houses also are more prone to be undercovered (O'Muircheartaigh et al., 2007). Kennel and Li (2009) confirmed that 30 to 40 percent of mobile homes are not covered. The 2018 NSDUH's counting and listing manual (RTI International, 2017) covers these situations for FE, so the current NSDUH frame may not have a problem with these types of units. However, there is no easy way to verify that.

Long-term vacant and rural vacant HUs may be on the No-Stat file rather than on the primary ABS frame. Shore et al. (2010) found that 21.8 percent of HUs on traditional field lists but not on the ABS frame were ineligible (almost half of which were vacant), whereas only 3.7 percent of ABS-covered HUs were ineligible (more than half vacant). The implication is that coverage of the eligible population (occupied HUs) is better than the apparent coverage of all HUs.

### 4.5.5 Frame Errors

Anecdotal evidence from ABS researchers suggests that frame errors are present and could affect coverage. For example, a revamped apartment building that changes street addresses may be on the frame twice under both old and new addresses. Also, a drop point may not have the exact number of drop units indicated. Errors of this type affect the counts in the net coverage
ratios and the number of records in the frame. More research is needed to determine the extent and impact of frame errors.

The Census Bureau, which receives updates directly from the USPS rather than from vendors, has examined discrepancies between USPS records and the Census Bureau's address canvassing operations. This research was used to help determine which addresses from the USPS to include in their ABS frames and other ways to improve the effectiveness of the USPS records (Martin \& Loudermilk, 2008; Tomaszewski \& Shaw, 2013; Ying, 2012).

### 4.6 What Is the Best Method to Enhance the Coverage Rate for Housing Units? For Group Quarters?

At this time, the answers to these questions are unknown, but, with further investigation, it may be possible to identify both a best and sufficient method for NSDUH. For these purposes, "best" is defined as the method that can be implemented most reliably, most accurately, least costly, and with the least impact on NSDUH field staff. A "sufficient" method is one that is reliable and accurate enough to prevent an unacceptable shift in the NSDUH's key estimates, results in a significant cost savings, and has minimal impact on field staff retention and job satisfaction.

To date, three primary methods have been developed to enhance coverage of an ABS frame: enhanced listing, Check for Housing Units Missed (CHUM), and address coverage enhancement (ACE). Below is a summary of each approach followed by a comparison.

### 4.6.1 Enhanced Listing (Also Known as "Dependent Listing")

Addresses from the ABS frame are geocoded, and those that geocode into the sampled segment are provided to the lister. In the field, the lister traverses the segment in the prescribed path of travel, checking to see whether each HU encountered is on the ABS frame. If not, the HU is added to the frame. If an address on the list does not correspond to any HU on the ground in the segment, the address is removed from the frame. Once the lister has completed his or her task, the updated list of addresses is sent back to the central office, and a sample is drawn (English, Dekker, \& O'Muircheartaigh, 2013). Enhanced listing occurs as a separate procedure, prior to sampling and data collection.

### 4.6.2 Check for Housing Units Missed (CHUM)

In the first of two components (referred to as CHUM1 and CHUM2), the area after a selected HU is searched in the prescribed path of travel. The search continues until either another HU on the ABS frame for that block is encountered or the entire block is searched. In the second component, sample segment blocks with no residential addresses on the ABS frame are randomly selected and listed (Shook-Sa, Harter, McMichael, Ridenhour, \& Dever, 2016). In both CHUM1 and CHUM2, these procedures are implemented during data collection. The CHUM procedures were applied in the Mailing List Field Studies (MLFS I and MLFS II) and are described in more detail in Section 2.2.

### 4.6.3 Address Coverage Enhancement (ACE) (Also Known as the "Coverage Enhancement Procedure [CEP]")

All addresses are geocoded into mutually exclusive geographical segments, including traditionally unlocatable addresses (e.g., simplified addresses or post office boxes) that are geocoded to the ZIP +4 or ZIP centroid. Segments and DUs are sampled, and a rule is created to determine where frame enhancement occurs. For example, the rule may be as follows: "If the northwestern most HU in the geographical segment is sampled, then frame enhancement will be implemented in this segment. If it is not sampled, then no frame enhancement will occur in that segment." The rule is set based on the estimated measure of size across all segments and the desired variability among the sampling weights (Kalton, Kali, \& Sigman, 2014).

If the rule is enacted (i.e., the predetermined unit is sampled), then the lister is sent out with a map of the geographic boundary (blue line in Figure 4.3) and the list of addresses geocoded into the geographic boundary (HUs with red or blue dots). Listers are instructed to find and confirm all addresses on the provided list, regardless of the boundary. Additionally, they are required to identify all addresses within the geographic boundary that are not already on the list (all HUs with an "X"). Once the list has been completed, the listers send the updated list of addresses back to the central office. Lister-added addresses that are found on the ABS frame and were geocoded elsewhere are excluded (empty "X"), but all lister-added addresses that were not on the ABS frame (filled "X") are included and sampled for interviewing (Dohrmann et al., 2012).

Figure 4.3 Illustration of the ACE Procedure


Source: This figure first appeared in a Joint Statistical Meeting paper by Dohrmann et al. (2012).

### 4.6.4 Frame Enhancement Methods Comparison

All three methods have their strengths and weaknesses that are briefly summarized in Table 4.5. ${ }^{18}$ Although some research on the validity and reliability of each has been conducted,

[^10]no comprehensive evaluation of any method has been completed. More importantly, comparisons across methods have yet to be quantified. Until such comparative research is conducted, the choice of a "best method" is not clear.

Table 4.5 Comparing and Contrasting ABS Coverage Supplementation Methods

| Constraints and Considerations | Coverage Supplementation Method |  |  |
| :---: | :---: | :---: | :---: |
|  | Enhanced Listing | CHUM | ACE |
| Cost comparison? | Less than traditional FE, but still searches entire segments | Less than enhanced listing and probably comparable with ACE | Less than enhanced listing and probably comparable with CHUM |
| Control of sample size? | Sample size not affected | Less control over sample size with added units | Less control over sample size with added units |
| Size of segments? <br> (CBG vs. CB) | Geographically larger segments directly increase cost | Size less relevant because not searching the entire segment | Geographically larger segments directly increase cost, unless number of ACE segments compensates |
| Definition of segments? | Based on census geographies and HUs that actually are located within them | Based on census geographies and HUs that actually are located within them | Area segments based on census geographies, and list segments based on HUs that geocode within the area segments, whether they geocode in the right place or not |
| Concepts for geocoding error? | Geocoding error corrected in selected segments | Geocoding error corrected in search intervals | Geocoding error expected and accepted |
| Applied to which segments? | Usually limited to segments that do not have extremely high coverage, based on coverage threshold | Usually limited to segments that do not have extremely high or extremely low coverage, based on coverage thresholds | Usually limited to segments that do not have extremely low coverage, based on coverage thresholds |
| Subsampling of segments? | Possible | Possible | Only segments that meet the rule are enhanced |
| Design includes very low coverage areas? | Enhanced listing still applies | May revert to traditional FE below a coverage threshold | May revert to traditional FE below a coverage threshold |
| Blocks with no frame addresses? | Listed if part of sample segment | Chance of selection through CHUM2 if part of sample segment | Searched if part of ACE segment |
| Timing? | As late as possible before HU selection | After HU selection, either at the time of data collection or just before | After HU selection, either at the time of data collection or just before |
| Focus of FIs? | Completely separate trip, so focus of interviewers not affected | Could be in a separate trip or during S\&I; more focused and less risk of error if scheduled before interviewing starts | Could be in a separate trip or in the data collection trip; more focused and less risk of error if scheduled before interviewing starts |
| Technology or equipment required? | Computerized (preferred) or paper | Computerized (preferred) or paper | Computerized (preferred) or paper |

$\mathrm{ACE}=$ address coverage enhancement; $\mathrm{CHUM}=$ Check for Housing Units Missed; $\mathrm{FE}=$ field enumeration; $\mathrm{HU}=$ housing unit.
Note: This table was adapted from Harter and English (2018).
Preliminary information suggests that a revised CHUM procedure may be a sufficient method for frame enhancement on NSDUH. In 2016, Harter, Amaya, Day, Kowalski, and Shook-Sa (2016) performed a review of CHUM, and, based on recommendations from a variety of staff who had experience with CHUM, a series of recommendations were made. These included, but are not limited to, the following: (1) setting the starting point of CHUM2 to an intersection instead of a random point, (2) revising and expanding CHUM training, and (3) enhancing the CHUM listing software to improve usability.

The above methods address DUs in general and may be applied to areas with GQs. Although untested, areas suspected to contain high levels of GQs will be better served under FE or enhanced listing. In both methods, a full list of addresses is obtained prior to sample selection, which allows the sampling statistician to control the probabilities of selection and the sample sizes within a segment. Under CHUM and ACE, enhancement occurs after sample selection. Adding a significant number of units through CHUM or ACE will either increase the sample size within the segment, increasing the intraclass correlations and design effects, or force the sampling statistician to first subsample then introduce variability through the sample selection weights.

### 4.7 What Thresholds Should Be Used to Determine Where to List, Enhance, and Use the ABS Frame?

Many studies use coverage or net coverage estimates at the segment level to determine which method of frame construction to use for each segment. The coverage estimates could be produced by ratios (Dohrmann et al., 2006; Eckman \& English, 2012a; Harter et al., 2011; Montaquila et al., 2009; Staab \& Iannacchione, 2003), or models, either regression model predictions (Hsu et al., 2010; Montaquila et al., 2011) or model-based decision trees (O'Muircheartaigh et al., 2009). Whereas Section 4.3 discusses these various methods for calculating coverage, this section focuses on how thresholds of the coverage estimates may be set and applied to classify segments into an appropriate frame construction method. To illustrate the threshold concept, consider a design where segment-level frames of HUs are (1) ABS if the net coverage ratio for the segment is greater than or equal to 0.90 , (2) ABS supplemented with field searches for segment net coverage ratios between 0.50 and 0.90 , and (3) FE listings if the segment net coverage ratio is 0.50 or less. The threshold values in this example are 0.90 and 0.50 .

Several factors influence decisions about coverage thresholds because the choice of coverage or net coverage can influence the distribution of values. Factors include the addresses included in the frame, the choice of denominator as "truth" in net coverage ratios, the choice of auxiliary variables and model structure for model-based predictions of coverage, and the relative penalties for misclassifying segments. These factors should be considered in combination when identifying ideal thresholds for NSDUH.

Various researchers tested thresholds and methods for establishing thresholds. English et al. (2012b) used logistic regression models and match rates to determine which segments should use ABS alone as the sampling frame and recommended average segment values as thresholds for various segment characteristics. They concluded that ABS is preferred in segments with the following characteristics:

- The net coverage ratio (ABS/2010 census) is higher than average, where the average net coverage ratio is the threshold.
- There has been above-average growth in housing since 2000, where the average census-to-census ratio is the threshold for that measure.
- The percentage of HUs that are "urban" (according to the 2010 census) is higher than average.
- The percentage of HUs that are Type of Enumeration Area (TEA) 1 (according to the 2010 census) is higher than average.
- The HU density (per square mile) is higher than average.
- The percentage of HUs that are occupied is higher than average.
- The segment is larger in area than average.
- Median household income is higher than average.
- The percentage of the population that is white non-Latino per block is lower than average.
- The percentage of addresses that are in multiunit buildings is higher than average.

Furthermore, they suggested that field enhancement of the ABS list is better than FE in most places, except where the ABS frame has no records; that is, the threshold for number of ABS records is zero or close to zero. This study is unusual in that it suggests multiple tests and multiple thresholds for classifying segments.

Hsu et al. (2010) and Montaquila et al. (2011) tested thresholds of 0.70 and 0.80 with their model to predict match rates to listings (using the same segments used to fit the model). They predicted match rates for each segment used in the model and checked whether the actual match rate was on the same side of the threshold as the prediction. With a threshold of 0.70 , all but two segments were predicted on the correct side of the threshold. With 0.80 , all but three were correctly classified. Then the model was tested on an independent set of 132 segmentssegments not used to estimate the model. (None of the independent segments had GQs). With 0.70 as the threshold, 17 percent were incorrectly classified above the threshold, and 31 percent were incorrectly classified below. With 0.80 as the threshold, 24 percent were incorrectly classified above, and 21 percent were incorrectly classified below. Apparently, the model is not a very reliable way of classifying segments relative to a threshold. Note that the authors treated the net coverage ratio (ABS/census) as a preliminary measure; it did not have as good a correlation with actual match rates as the model-predicted rates did, but the 2000 census was old at that point.

Iannacchione et al. (2010) retroactively tested net coverage thresholds of 20, 50, and 80 percent to separate ABS (plus enhancement) frame construction from FE frames for segments where listing and interviewing had already taken place. The higher the threshold, the better the coverage overall, assuming FE was accurate, but also higher the cost. Having the lower threshold would have missed more sample participants than higher thresholds. Differences in prevalence estimates were small, but even small differences are often statistically significant in NSDUH. The authors advised that thresholds should be reevaluated periodically and that thresholds likely will vary by state.

In their final ABS research report for NSDUH, Iannacchione et al. (2012) stated that net coverage thresholds of 50,65 , or 80 percent would result in 8,14 , or 26 percent, respectively, of segments being assigned to FE. If the No-Stat file is included in the ABS frame to increase coverage, then more segments surpass the threshold, and fewer would be assigned to FE. When the authors compared estimated net coverage to actual coverage (by matching ABS addresses to

FE listings), they found that 9.4 percent of segments were estimated to be on the wrong side of a 50 percent threshold.

AAPOR (2016) stated that coverage thresholds are study specific and that some segments' coverage will be predicted on the wrong side of the thresholds. AAPOR suggested a sensitivity analysis to determine how much bias can be tolerated for a given coverage rate or how much coverage is needed to not exceed a certain bias limit. But FE or enhancement of ABS frames in segments that do not meet the threshold is expensive. Sometimes, budget, schedule, and analytic goals influence the thresholds. Finally, net coverage estimates, by definition, tend to be higher than match rate coverage estimates, which might affect the choice of thresholds.

### 4.8 What Is the Risk of Coverage Bias on NSDUH?

Research suggests that the risk to national estimates varies, but more analysis would be helpful. Using data from MLFS I, Morton, McMichael, Ridenhour, and Bose (2010) compared key NSDUH outcomes across three frames: FE, ABS frame, and ABS frame with CHUM. Most importantly for this question was the comparison between FE and ABS frame with CHUM. Of the 27 comparisons made between the two frames, three comparisons were statistically significant at the 5 percent level, and an additional three comparisons were significant at the 10 percent level. ${ }^{\underline{19}}$ Even among the significant differences, the magnitude of the difference was small ( 0.0 to 0.8 percentage points). An additional four comparisons were planned but could not be completed due to insufficient sample sizes.

In the 2017 NSDUH analysis (Section 2.3), two subsamples were created to estimate coverage from the CDS. Fifteen measures were compared across the subsamples and full, fieldenumerated sample by a variety of domains and two-way cross domains. Between 9 and 12 percent of comparisons were found to significantly differ between the subsamples and the FE sample. However, some differences were larger than others, and some variables were more or less susceptible to the frame switch. This is relatively consistent with a recent simulation using the 2015 Residential Energy Consumption Survey (RECS) (Amaya, Zimmer, Morton, \& Harter, 2018). Some variables, such as the number of adults in the household or whether the householder owned or rented the DU, were relatively unaffected by the CDS coverage rate. Other variables (e.g., race/ethnicity) were at high risk for coverage bias, even when there was only slight undercoverage. The simulation was conducted assuming a national sample and two sub-national samples and found similar results.

In a separate analysis using data from two rural PSUs in the National Children's Study (NCS) Vanguard Study, Shore et al. (2010) found significant differences between addresses on both FE and ABS frames to addresses on only FE frames with respect to the following characteristics: type of DU, interview conducted in English, and Hispanic respondent. The results are not generalizable to all areas; however, they suggest that a coverage enhancement procedure should be used to eliminate coverage bias.

[^11]The above analysis may suggest that the risk and magnitude of bias on national estimates is small. However, a few caveats deserve note.

- First, the sample sizes of the MLFS and NCS studies were small, reducing the power and likelihood of identifying significant differences. In the case of the MLFS analysis, only 75 cases were included in the field-enumerated frame that were not found in the ABS frame with CHUM. Although this speaks to high coverage rates of an ABS frame with CHUM, reducing the risk of coverage bias, it also means that the analysis had little ability to predict.
- Second, neither the MLFS nor 2017 NSDUH analyses accounted for hybrid designs currently under consideration. The MLFS analysis assumed that all segments would use an ABS frame with CHUM, which would not be the case. Areas with estimated high coverage would use an ABS-only frame, and areas with low estimated coverage would be field enumerated or enhanced. The MLFS analysis underestimates the potential for differences in high coverage areas. In 2017, all bias analysis assumed an ABS design without enhancement or field enumeration, overestimating the potential for differences in low-coverage areas.
- Finally, the MLFS analysis assumed a fixed coverage rate, which is only applicable at the national level. To the extent that coverage rates vary by subgroup (demographically or geographically), the risk of coverage bias may also vary by subgroup.

Other limitations to the 2017 NSDUH analysis may be found in Appendix A, and additional limitations to the RECS analysis may be found in Amaya et al. (2018). The degree to which these caveats will shift the risk of coverage bias is unknown.

### 4.9 Can Weighting or Other Postsurvey Adjustment Be Used to Reduce or Eliminate Coverage Bias?

The literature does not have much to say about weight adjustments for coverage error of ABS frames. Weight adjustments generally account for error due to nonresponse and poststratification to control totals. ${ }^{20}$ For another study, P.S. Kott of RTI (personal communication, January 16,2017 ) suggested the possibility of a coverage adjustment by frame type. So, for example, consider a scenario in which the ABS and FE frames are available for a representative sample of segments. Under this scenario, the difference between the two could be measured, and the weights of the HUs in the ABS segments could be adjusted to account for coverage error. One might consider adjusting each segment individually based on its expected coverage error, but the effectiveness would depend on how well the expected coverage could be estimated. More research is needed.

### 4.10 What Is the Best Method and Best Software for Geocoding?

When using the ABS frame, addresses must be assigned to specific segments, typically defined by census boundaries. Addresses are assigned to the segments through the process of

[^12]geocoding, usually by first assigning latitude and longitude to each address. Section 4.5.1 discusses the general process of assigning addresses to segments, primarily by matching city-style addresses to street segments and interpolating the address within the range of geocodes corresponding to the segment. This section summarizes some of the ways geocoding can be accomplished. Ultimately, geocoding involves a process and a geospatial database. Because the databases and companies providing data and services continue to evolve, a new review should be conducted based on the latest information.

Some ABS vendors provide geocodes with addresses on their frames. N. English of NORC (personal communication, April 28, 2017) indicated that there is virtually no difference between the Valassis geocodes and the geocodes produced by NORC. ${ }^{21}$ Not all vendors use a standard approach to geocoding, however, so it is a good idea to understand the methods used (S. Eckman, personal communication, May 23, 2017).

McMichael, Ridenhour, Keating, and Krotki (2014) noted that geocodes need both reliability (repeated measures will obtain approximately the same geocodes) and accuracy (repeated measures will center on the correct geocodes). These authors examined the precision and accuracy of three batch geocoding services: TomTom, Arc GIS, and TAMU. They measured the distances from the geocodes of ABS addresses (assuming the Global Positioning System [GPS] devices in the field identified the location of the geocodes) to the actual location of the buildings in the field and summarized the distributions of the results, as shown in Table 4.6. The distributions are highly skewed, indicating that most addresses are reasonably close, but a small proportion of addresses geocoded extremely badly, presumably to the centroid of the ZIP Code. On the basis of these distributions, McMichael et al. (2014) recommended using TomTom, then ArcGIS. Moreover, as technology changes, the performance is likely to change. Comparative research would have to be repeated periodically.

Table 4.6 Distribution of Distances (in Feet) from Vendors' Address Geocodes to Field Locations

| Geocode Service | Mean | 25th Percentile | Median | 75th Percentile |
| :--- | :---: | :---: | :---: | :---: |
| TomTom | 211 | 27 | 47 | 97 |
| ArcGIS | 234 | 68 | 99 | 144 |
| TAMU | 646 | 70 | 110 | 255 |

Note: TomTom is made by TomTom NV, a company based in Amsterdam, Netherlands. ArcGIS was developed by Esri, a company based in Redlands, California. TAMU is made by Texas A\&M University in College Station, Texas.

Online tools with satellite imagery or maps of segments may enable a virtual "lister" in the office to place a virtual "pin" on the rooftop of a building corresponding to an address. Such geocodes would be extremely accurate, assuming the pins were placed on the correct structures. However, the imagery may not be current, and the addresses that are not locatable through traditional geocoding probably would not be locatable online either. Dorhmann, Harding, and Li (2008) proposed a digital canvassing operation of this sort. An online system for virtual listing has been developed, as has a batch tool for determining the age of the most recent images for segments (Wheaton, Rineer, Chrest, \& Cajka, 2017).
${ }^{21}$ Geocoding software used by Valassis is unknown. NORC uses MapMaker Plus from Pitney-Bowes.

During FE, listers can capture geocodes with laptops or other GPS-enabled handheld devices. Although FE-collected geocodes will not affect the coverage issue for ABS frames, they may still be useful for FIs. McMichael et al. (2014) indicated that the precision and accuracy of GPS devices are affected by hardware, software, the number of satellites to which the device is visible, atmospheric conditions, and other factors. They determined that 99 percent of GPS coordinates were within 158 feet of the true location, which is sufficient to differentiate most housing structures. In a separate test, De La Rosa (2017) drove with multiple GPS devices through Manhattan to check the consistency of the path of travel and block assignments. He found that 95 percent of the GPS locations to be within 7.5 meters. Outside this range, at least 70 percent of geocoding errors were within 15 meters. All devices displayed some errors; in Manhattan, De La Rosa found errors to be associated with tall buildings and "canyons" between buildings.

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## 5. Sampling

This chapter summarizes how changes to the sample frame and design could affect the survey. Two sampling-related questions are addressed, and areas needing further research are identified.

### 5.1 How Will Changes in the Frame and Sample Design Disrupt the Time Series?

Three primary factors influence whether a switch to a hybrid address-based sampling (ABS) design would affect the time series: (1) changes in coverage bias (Section 4.8), (2) changes in sampling error due to changes in the sampling geographies and the intracluster correlation (Section 5.2), and (3) introduction of new interviewer effects resulting from a change in implementation procedures (Chapter 6).

First, although both field-enumerated and hybrid ABS frames suffer from some undercoverage, they do not undercover the same units. In a study by English et al. (2009), 4 percent of addresses were found on the ABS frame that were not found on the field-enumerated frame, while 7 percent were found on the field-enumerated frame but not on the ABS frame. To the extent that individuals living in uncovered field-enumerated housing units (HUs) are different from those uncovered in ABS HUs, then the extent of coverage bias could change and affect the overall time series.

Second, in order to minimize the risk of geocoding error, the National Survey on Drug Use and Health (NSDUH) could move from sampling census blocks to sampling census block groups. As a result, intracluster correlation would decrease and confidence intervals may shrink for annual estimates. However, an examination of a variety of NSDUH outcomes suggests that the correlation between overlapping samples is low. As a result, this increase in geocoding precision may be offset by the weakening of correlation between overlapping samples and may have little effect on comparisons of estimates over time. The magnitude in the increase in precision and the extent that this increase would change the significance of tests between time points are unknown. Implications of such a change are further discussed in Section 5.2.

Third, a hybrid ABS design may include some frame enhancement. If field interviewers (FIs) are responsible for enhancement implementation, then their duties would increase. Requiring FIs to take on additional tasks could reduce their efficiency on others. For example, they may spend less time practicing their gaining cooperation skills, may make fewer visits to a nonresponding dwelling unit (DU), or generally be distracted by their other responsibilities. To the extent that these changes affect the type of respondents recruited into the sample, then the time series could be disrupted.

Using data from the first of the Mailing List Field Studies (MLFS I), Morton et al. (2010) compared prevalence estimates for a number of key NSDUH outcomes based on the field enumeration (FE) frame with those based on the hybrid ABS frame. Although a few significant differences were identified (see Section 4.8 for details), the magnitude of the differences was small, and the analysis could not distinguish between coverage, sampling, and interviewer
effects. Additional analysis would be necessary to isolate the source of the differences and identify adjustments to the design (e.g., frame enhancement procedures) that may further reduce the risk to the time series.

### 5.2 Would a Hybrid ABS Design Require a Change from Sampling Census Blocks to Block Groups? What Are the Implications of Such a Change?

Under a hybrid ABS design, census block groups may be preferred in ABS segments and census blocks may be preferred for segments requiring frame enumeration or enhancement. Compared with geocoding at the census block level, geocoding accuracy improves significantly at the census block group level in both rural and urban areas, reducing the risk of overcoverage or undercoverage (Section 4.5.1). In addition, census block groups have less intracluster correlation than census blocks, further enhancing precision for annual estimates. Blocks are ideal for enumerated segments because FE is not affected by geocoding error, and smaller segments make it easier for listers to complete enumeration in a single trip.

Switching to census block group segments would have little if any implication on other aspects of NSDUH. Census block groups already make up one level of the sampling strategy (census tracts are selected within state sampling regions, census block groups are sampled within tracts, and a collection of one or more census blocks are sampled within census block groups), so a change in design would not affect the sampling process. Moreover, in 2014, each completed interview was assigned a census block ID, which was then used to link other geographic information to the record. Because this is done only for completed interviews, this append would still be possible. Interviewers would note the location of the address on a map, this would be translated to a census block number, and additional information could be appended. Although possible regardless of the method used, this procedure would likely be more streamlined and automated if a Global Positioning System (GPS) was embedded into the interviewing device (Section 6.2). Finally, a move to census block group-based segments would increase within segment interviewer travel because sampled DUs would be more dispersed. However, this increase may be small due to the correlation in coverage and urbanicity; segments with sufficient coverage are more likely to be located in urban and suburban areas where census block groups cover geographically small areas.

Although sampling census block groups has many advantages, listing would be costprohibitive if the geographic areas are too large. Thus, FE segments would continue to consist of one or more census blocks. This protocol is similar to that used by NORC to construct the NORC National Frame. In the National Frame, tracts are used as segments in urban areas and block groups as segments in rural areas (NORC, n.d.). For variance estimation, both types of segments would be treated the same. That is, there would be no issue defining and using variance replicates when some segments are defined by block groups and others consist of one or more census blocks.

## 6. Logistics

As is evidenced in the previous chapters, changes to the sample frame have several implications on implementation. Survey tasks, and labor hours must be redistributed, and procedures must be altered to account for these changes. This chapter addresses the various ways in which a switch to a hybrid address-based sampling (ABS) design may affect day-to-day operations.

### 6.1 At What Point in Time Should Frame Enhancement Be Implemented?

As discussed in Section 4.6, three primary methods are available for frame enhancement: enhanced listing, CHUM, and ACE. Traditionally, field enhancement occurs prior to frame construction and sample selection, whereas CHUM and ACE are implemented concurrently with screening and interviewing. Given the scale of NSDUH, the ongoing nature of the survey, and lessons learned on previous hybrid ABS surveys, the traditional timing of frame enhancement would need to be reevaluated prior to adoption.

Table 6.1 summarizes the benefits and challenges of three different timings. Under scenario 1, frame enhancement would occur once over the 2-year period that the segment was in the sample and would be implemented at the same time as FE. In scenario 2, frame enhancement would occur before each quarter. Because each segment is sampled in one quarter per year, each segment would require frame enhancement once per year, but enhancement would occur in all quarters. ${ }^{22}$ In scenarios 1 and 2, frame enhancement would occur in a separate trip from screening and interviewing whereas in scenario 3 , they would be implemented concurrently.

Table 6.1 Summary of the Benefits and Challenges of Various Timings for Frame Enhancement

| Benefits/ Challenges | Timing of Frame Enhancement |  |  |
| :---: | :---: | :---: | :---: |
|  | Scenario 1: Before S\&I of First Year | Scenario 2: Before S\&I of Each Quarter | Scenario 3: Concurrently with S\&I |
| Benefits | - Most consistent with current listing procedures, so least impact on field operations <br> - Maintains separation between enhancement and S\&I, improving ability to track hours and minimizing multitasking which could diminish quality or efficiency | - Maintains separation between enhancement and S \& I, improving ability to track hours and minimizing multitasking, which could diminish quality or efficiency | - Eliminates need for listers <br> - (Likely) most cost-efficient because it eliminates multiple trips |

(continued)

[^13]Table 6.1 Summary of the Benefits and Challenges of Various Timings for Frame Enhancement (continued)

| $\begin{array}{l}\text { Benefits/ } \\ \text { Challenges }\end{array}$ | $\begin{array}{c}\text { Scenario 1: Before S\&I } \\ \text { of First Year }\end{array}$ | $\begin{array}{c}\text { Timing of Frame Enhancement }\end{array}$ |
| :--- | :---: | :---: | :--- | :--- |
|  | $\begin{array}{c}\text { Scenario 2: Before S\&I of Each } \\ \text { Quarter }\end{array}$ | Scenario 3: Concurrently with S\&I |$]$

ABS = address-based sampling; ACE = address coverage enhancement; $\mathrm{CHUM}=$ Check for Housing Units Missed; DU $=$ dwelling unit; $\mathrm{FE}=$ field enumeration; $\mathrm{FI}=$ field interviewer; $\mathrm{FS}=$ field supervisor; $\mathrm{S} \& \mathrm{I}=$ screening and interviewing.

In general, field staff benefit from early implementation (scenario 1 ), while sampling and costs are more favorable under later implementation (scenario 3). Too many compromises are required on all sides to make scenario 2 an ideal choice.

### 6.2 Is Electronic Listing Suitable for FIs and Compatible with Existing Systems? What Products Should Be Tested?

Electronic listing has been found to be suitable for FE and frame enhancement, but current software has several weaknesses that could be corrected to enhance usability, efficiency, and accuracy.

Although quantitative research is lacking, qualitative interviews with the National Survey of Family Growth's (NSFG's) FIs suggest that enhanced listing using a computer is easier than paper-based listing. One benefit of computerized listing is the ability to easily insert a previously missed address when listers are checking their listing sheet. On paper, all of the subsequent addresses would have to be erased and moved down one row to accommodate the missed unit. Preloaded streets also minimize typographical errors and improve matching abilities back to the ABS frame.

Despite these benefits, current software will need improvements prior to implementation on NSDUH. For example, most of the current software is form-based instead of map-based. Not only does this create inefficiencies for listers who have to switch back and forth between the maps and the listing platform, but it also does not capitalize on several features that may be of interest. For example, a map-based system could be used to pinpoint the location of dwelling units (DUs) that do not have addresses or to collect Global Positioning System (GPS) information for quality control. Similarly, most listing software is DU-specific and does not remember the last entry. When listing a large apartment building, it may be more efficient to autofill the previous street address and other building information and only require that the lister fill in the new apartment unit number. This would reduce frustrations, improve efficiency, and minimize error.

Plans are currently in place to develop a tablet-based, GPS-enabled electronic listing application using ESRI Collector (ArcGIS, 2018). The e-listing application will be tested to ensure that it is intuitive for listers and field staff and compatible with NSDUH equipment. Although the application is still under development, proposed features include allowing the user to zoom in, pan, and move around the map. Field staff will be able to see the boundaries of the segment and their current location on the map. Listers may drop a pin at each DU's location and record address information. FIs, in turn, will be able to use the GPS coordinates (or the address) for navigation and confirmation of sample DU address locations. In future years of NSDUH, maps could be prepopulated with the ABS addresses at their geocoded locations. Having these data on FI tablets when conducting NSDUH interviews would reduce the burden for FIs in locating and identifying selected DUs. All data stored on the device would be transmitted and uploaded to the NSDUH case management system (CMS) and reviewed by management and editing staff for completeness and efficiency.

In addition to the electronic listing software, other factors and protocols would also need to be developed prior to implementation of electronic listing on NSDUH. For example, current NSDUH listing training is all conducted at home. New training materials would need to be developed, and in-person training may be necessary. NSFG listers also reported difficulty conducting e-listings in segments that required driving, especially in rural areas and on busy streets with no reasonable place to pull over. Interviewer safety is a priority, and protocols would need to be developed for these situations. Currently, interviewers jot down quick notes and fill in the listing sheet in more detail at a later point. One solution to typing while driving may be the use of speech-to-text software. However, an investigation into the accuracy of speech-to-text and compatibility with NSDUH systems and the e-listing application would need to be conducted before it could be implemented. Finally, screen glare can make listing difficult in certain weather conditions. Hardware and screen covers would need to be investigated prior to implementation.

### 6.3 How Would a Reduction in Time Spent on Field Enumeration Affect Interviewer Retention?

Qualitative evidence suggests that switching from FE to a hybrid ABS frame would have little effect on FI retention and improve the job satisfaction of field supervisors. Four focus groups were conducted with current NSDUH listers, FIs, and field supervisors to determine aspects of their job that they enjoyed, did not enjoy, were easiest, and were most difficult. Although the majority of FI listers that attended the NSDUH focus group reported that they
enjoyed listing due to the additional work hours and freedom it afforded from screening and interviewing tasks (i.e., less interaction with respondents), few reported this as their favorite or most interesting part of their job. Oppositely, field supervisors commented on not having enough time to manage listing in addition to their current screening and interviewing tasks and would like to eliminate listing management from their job descriptions.

Although the overall time spent listing would be significantly reduced under a hybrid ABS design, any given FI's listing hours would be minimally affected for three reasons. First, nearly two thirds of FIs do not conduct any listing and would be unaffected by a reduction in listing hours. Second, the overall labor force could be reduced. Approximately one third of listers only conduct listing; they are not FIs.. As listing needs decline, the number of individuals who only list could be reduced, keeping the labor hours dedicated to other listers constant. The extent to which this staffing profile could be implemented is dependent on the location of both the staff and the segments requiring FE. Third, listing does not constitute a large portion of the work conducted by field staff that conduct both listing and screening and interviewing. Listing runs from April to November. Although listing provides supplemental income for some FIs, it does not provide consistent work for them throughout the year. In 2016, FIs who also listed completed an average of eight listings each.

### 6.4 What Changes Would Need to Be Made to Interviewer Training?

Two primary changes would be necessary to implement hybrid ABS: (1) in-person training would initially be required for listers to learn how to conduct electronic listing and (2) if a 3-tiered approach was implemented, home-based, classroom, and field-based training would be introduced to all field staff to conduct frame enhancement.

For NSDUH, lister training is currently home based. Adding equipment and electronic mapping for FE would initially require in-person training to properly review the new equipment. Because NSDUH does not currently use electronic listing, training modules would need to be developed from scratch. As listers become more familiar with electronic listing and as the U.S. population naturally becomes more technologically adept, it may be possible to develop training videos for home-based training. The National Agricultural Statistics Service (NASS) has had success using a mixture of home-based and in-person training sessions to teach FIs how to use their iPad mapping tools, although the application is slightly different from household listing (Barboza \& Abreu, 2017).

Separately, all field staff would be required to attend an additional training module on the chosen frame enhancement technique followed by a certification of procedures learned. An additional half day of training that incorporates presentations, demonstrations, and practice exercises, along with a step-by-step video (including instructions for using tools and maps), should be presented. Prior to training, field staff would be required to review a manual detailing procedures and complete a web-based iLearning course. In-person training could be added to existing New-to-Project or Veteran FI training sessions or completed as a stand-alone training. After the in-person training, FIs would complete an iLearning course each year as a refresher. In addition, all field management staff would need to be trained on the new procedures to aid in guiding staff with questions in the field. In addition to classroom and home exercises, an in-field
practice exercise would be beneficial, presenting varying levels of difficulty. Results could be used for a group discussion of lessons learned prior to the commencement of training.

### 6.5 How Would the FI's Path of Travel Need to Change?

The path of travel is a continuous path that field staff take while listing a segment to ensure complete coverage of the segment. The path of travel is marked on the map(s) and is often used by FIs at the screening stage to locate sampled dwelling units (SDUs). Prior to 2014, the path of travel was also used to implement the half-open interval (HOI) frame supplementation procedure by checking the interval between an SDU and the next listed dwelling unit (DU) for missed DUs.

ABS segments would not have a path of travel marked on the map. Thus, FIs would be required to rely on address information to locate SDUs. Current NSDUH procedures provide guidance to FIs in locating an SDU should there be an inconsistency with the location on the map. If the SDU address matches the approximate location on the map, the FI proceeds with contacting the SDU. If the SDU address does not match the position of the location on the map, but the street number is clearly visible, FIs are instructed to answer two questions: (1) Is the location of the SDU address in the general vicinity on the map (e.g., around the corner, down the street, or in the surrounding area)? (2) Is the location of the SDU address within the segment boundaries? If the answer to both questions is "yes," FIs are instructed to proceed with contacting the address. If the answer to either question is "no," the sampling team is contacted for assistance in locating the SDU.

Because ABS segments will not have an existing path of travel, FIs would also be required to create their own path of travel for frame supplementation. As described in Section 2.2, implementation of the CHUM requires field staff to first face a sample DU, then proceed clockwise around the block, without crossing a street, to find the next DU. The FI makes all possible right turns until the interval ends (an address is found on the ABS frame) or the block is circumnavigated. The CHUM2 procedure ensures coverage of census blocks with no ABS addresses. The current NSDUH path of travel performed during FE differs in that it requires field staff to make U-turns at segment boundaries, resulting in a continuous path of travel for the entire segment. HOI procedures were eliminated in 2014, ${ }^{23}$ so interviewers would be trained on one path of travel to implement one frame supplementation procedure (CHUM or other) at the interviewing stage.

At the listing stage, there would be no change to the current path of travel procedures implemented on NSDUH for FE segments. To ensure that every street and roadway within a segment is covered, field staff would follow the existing continuous path of travel, recording or checking for DUs on the right side of the street. A continuous path of travel allows field staff to cover an entire area, checking each street once while remaining within segment boundaries, and has proven successful on NSDUH.

[^14]
### 6.6 How Would Frame Enhancement at the Screening and Interviewing Stage Affect FI Workload Distribution and Efficiency?

The answer to this question is dependent on when frame enhancement occurs (see Section 6.1 for a list of options). ${ }^{24}$ If frame enhancement were to be conducted from April to November in the year prior to data collection (i.e., during the same period currently used for FE), frame enhancement should not affect screening and interviewing time. Alternatively, frame enhancement could be conducted concurrently with screening and interviewing. Under this scenario, timing spent on screening and interviewing would be more difficult to parse from time spent conducting enhancement. Concurrent implementation would also risk staff overstretch, which may increase the hours per completed interview. Interviewers would be asked to multitask, which may make them inefficient at any given task, and increase screening and interviewing hours.

However, several other changes (if implemented) may improve the efficiency of FIs. First, electronic listing and frame enhancement may reduce the amount of time it takes for an FI to locate an address. As outlined in Section 6.2, electronic listing may also capture a geolocation and image that may be used by FIs to locate and confirm they are at the correct address. Second, address quality is frequently better on the ABS frame than obtained by listers (N. English, personal communication, April 28, 2017).

To date, no research has been conducted to compare the efficiency of field-enumerated segments with that of frame-enhanced or ABS-only segments. Because these segments are different in many other ways (e.g., urbanicity), a direct comparison is not appropriate, and it is unknown whether any available data may be used to conclusively assess the ways in which quality may change.

### 6.7 How Would a Reduction in Time Spent on Field Enumeration Affect Travel Time?

Travel time is incurred for three types of activities: FE, field enhancement, and screening and interviewing. Table 6.2 summarizes how each of these groups and each type of travel may be influenced by a hybrid ABS design.

Overall, travel could decline because no travel would be required to list or enhance ABSonly segments. The change in travel time would be dependent on the coverage thresholds used (see Section 4.7), the coverage enhancement method used (Section 4.6), and the timing of the enhancement (Section 6.1). Higher travel costs would be incurred from more trips to and from a segment than travel within the segment. Because FE that occurs prior to data collection requires separate trips, a hybrid ABS design that included frame enhancement would result in cost savings. This would be true even if the travel within a segment increases. The lower the coverage threshold, the higher the savings because more segments would be fielded via ABS-only or ABS with enhancement.

[^15]Table 6.2 Summary of the Effect of Hybrid ABS on Travel Time

| Task | Travel |
| :---: | :---: |
| Field Enumeration | - Eliminated in ABS-only segments <br> - Replaced by travel to conduct field enhancement in segments with middling coverage if enhancement occurs prior to S\&I <br> - Eliminated in ABS frame plus enhanced segments if enhancement occurs concurrently with S\&I <br> - Unchanged in field-enumerated segments |
| Field Enhancement | - Replaces travel to conduct field enumeration in segments with middling coverage if enhancement occurs prior to S\&I <br> - None if enhancement occurs concurrently with S\&I |
| Screening and Interviewing | - Increased within ABS-only and enhanced segment travel due to larger segment sizes (Section 5.2) |

$\mathrm{ABS}=$ address-based sampling; $\mathrm{S} \& \mathrm{I}=$ screening and interviewing.
If frame enhancement were completed prior to data collection, enhancement travel would replace field listing travel in segments where frame enhancement is required. Travel costs may increase in these segments because the number of trips to the segment would remain constant while the segment size would increase, increasing the within segment travel. Although travel costs in ABS-only segments would still decline, the net effect on travel costs would depend on the coverage thresholds.

### 6.8 How Would Frame Enhancement Be Monitored for Quality Assurance?

Quality assurance for frame enhancement should incorporate existing quality control (QC) procedures currently used at the count and list stage. Mapping and sampling staff would review maps to check for a unique address/description for each DU, consistent spelling of street names, coverage of all within-segment streets, missed DUs, and eligibility of all DUs listed in a segment. For problems that cannot be resolved through satellite or online imagery, field validation steps would be initiated to take corrective action. NSDUH project managers would also review performance reports and statistics to monitor field staff performance.

In addition, trained statisticians-on-call could staff a hotline to answer questions to resolve field-based sampling issues in real time so that field staff could get immediate answers and continue working. Statisticians would be guided by a set of decision trees and use online resources to view the structure(s) and areas in question.

Another process for determining how often a FI has implemented frame enhancement correctly is by implementing a "seeding" process. Projects that use ABS routinely delete a certain number of ABS addresses to monitor whether field staff have correctly implemented the frame enhancement. FIs are told about the seeding process during training to explain that seeding is needed not only for QC, but also as a way to extend training in the field. Whenever a seeded address is missed, the FI is contacted, and a review of the frame enhancement technique for the seeded address is performed (Iannacchione et al., 2012).

New field procedures could be implemented on NSDUH to aid in QC for frame enhancement (see Section 6.3). For example, mapping tools used for electronic listing can store path of travel and GPS coordinates, validate FI presence, and help ensure complete coverage of the segment streets. Further data quality reports pulled from the tablet could be reviewed for indicators of questionable quality, such as inconsistent GPS coordinates and unexpected start or
stop times. Utilizing time stamps recorded on the tablet would ensure efficiency of the listing and aid supervisors with timesheet review and staff retraining.

### 6.9 Can Procedures Be Accurately and Uniformly Deployed in All Segments?

Although unknown, preliminary evidence suggests it is possible to accurately and uniformly deploy an alternative frame in all segments. Until a method for listing (e.g., ACE, enhanced listing, CHUM, and whether electronic or not) is chosen, drawing conclusions is difficult. Factors contingent upon the chosen method for listing and frame enhancement can be found in Table 6.3.

Table 6.3 Summary of Decisions Influenced by ABS Design Method

| Decision | How ABS Design Influences Decision | Discussed Further in Section(s): |
| :---: | :---: | :---: |
| Products for testing | Options would depend upon type of listing (electronic or not). | 6.2 |
| Type of staff used to conduct frame enhancement (FI lister, lister only, CHUM only) | More information on cutoff points would provide further guidance on the number, location, and type of staff needed and the effect on the current staffing structure. | 6.3 |
| Quality of training | Timing and type of training would depend on ABS design and timeline for frame enhancement. | 6.1, 6.4 |
| Change in path of travel | With the elimination of HOI procedures conducted during S\&I, there would be no change to path of travel. However, FIs would not have the benefit of any notes included by listers that may help FIs orient themselves to the segment. If a frame enhancement method other than CHUM is selected, this will need to be revisited. | 6.5 |
| Timeline for frame enhancement | The timing of frame enhancement will affect whether the FIs are overstretched with too many tasks, reducing accuracy. | 6.1 |

ABS = address-based sampling; CHUM = Check for Housing Units Missed; $\mathrm{FI}=$ field interviewer; $\mathrm{HOI}=$ half-open interval; NSDUH = National Survey on Drug Use and Health; S\&I = screening and interviewing.

At present, no quantitative evaluations have been conducted to assess the implementation of procedures with FIs, although qualitative evidence does suggest that it works with the right QC and training. Segment size would change regardless of enhancement method. Census blocks would be selected in segments that continued to be field enumerated, whereas census block groups would be used in all other segments. Although interviewers would notice a difference in segment size, this change would be unlikely to cause confusion. Regardless of size, FIs receive maps with the segment information. Even under the current design, FIs are used to the maps often falling on multiple pages and requiring complex paths of travel. It is unlikely that increasing the segment size would affect quality.

## 7. Next Steps

The information included in this report is meant to provide a foundation from which to assess various design options to transition the National Survey on Drug Use and Health (NSDUH) to a hybrid address-based sampling (ABS) frame. However, the quantity of information provided, the interconnectedness of the various questions and responses, and the number of questions that do not have clear and definitive answers can be daunting. Although the next steps for some of the questions and responses are clear (e.g., selecting geocoding software), the path to address others is more abstract (e.g., maintaining field interviewer [FI] job satisfaction).

Table 7.1 summarizes the decisions that will need to be made before NSDUH can be transitioned to a hybrid ABS frame. The goal of this table is to help define a series of next steps and provide a framework for integrating the information provided in the prior chapters. Where possible, recommendations are made in the report. In other cases, additional analysis and field testing will be required to gather more information to make an informed decision. Plans are under way for a pilot and field test designed to answer the outstanding questions.

Table 7.1 Summary of Considerations Required before NSDUH Can Transition to a Hybrid ABS Frame

| Considerations |  | $\begin{array}{c}\text { Recom- } \\ \text { mendation } \\ \text { Made? }\end{array}$ | $\begin{array}{c}\text { Requires } \\ \text { Analysis? }\end{array}$ | $\begin{array}{c}\text { Requires } \\ \text { Field } \\ \text { Testing? }\end{array}$ |
| :--- | :---: | :---: | :---: | :--- |
| $\begin{array}{l}\text { ABS frame source (vendor) } \\ \text { (Section 4.4.1) }\end{array}$ | Yes | No | No | Also Influences: | \(\left.\begin{array}{l}Coverage rate and proportion of segments <br>

requiring enhancement and listing\end{array}\right]\)

See notes at end of table.
(continued)

Table 7.1 Summary of Considerations Required before NSDUH Can Transition to a Hybrid ABS Frame (continued)

| Considerations | Recommendation Made? | Requires Analysis? | Requires Field Testing? | Also Influences: |
| :---: | :---: | :---: | :---: | :---: |
| Thresholds for FE and enhancement (Section 4.7) | No | Yes | No | - Proportion of segments requiring enhancement and listing <br> - Risk of bias <br> - Hybrid frame coverage |
| Segment size (e.g., census block) (Section 5.2) | Yes | No | No | - Travel costs and time <br> - Geocoding error <br> - Intracluster correlation |
| Timing of frame enhancement (Section 6.1) | No | Yes | Yes | - Method of frame enhancement <br> - Implementation accuracy and workforce overstretch <br> - Proportion of FIs requiring enhancement training |
| Training protocols for frame enhancement (Section 6.4) | Yes | No | Yes | - Implementation accuracy |
| Quality control procedures for frame enhancement (Section 6.9) | Yes | No | Yes | - Labor hour tracking and accuracy |
| Use of e-listing (Section 6.2) <br> Device <br> Software <br> Data plan <br> Data to be captured (e.g., GPS) <br> Mapping <br> Training protocols | Yes | No | Yes | - Interviewer job satisfaction <br> - Data quality <br> - Timeliness for listing issue resolution and handoff between listing, sampling, and S\&I <br> - Falsification monitoring |
| Weighting procedures (Section 4.9) <br> Whether to account for coverage variance If yes, how | No | Yes | No | - Risk of coverage bias |

[^16]
## References

Amaya, A. (2017, May). Drop points: White paper. Retrieved from
http://abs.rti.org/atlas/drops/paper ${ }^{\text {® }}$
Amaya, A., LeClere, F., Fiorio, L, \& English, N. (2014). Improving the utility of the DSF address-based frame through ancillary information. Field Methods, 26, 70-86. Retrieved from https://doi.org/10.1177/1525822x13516839 ©

Amaya, A. E., Zimmer, S., Morton, K., \& Harter, R. (2018). When does undercoverage on the United States address-based sampling frame translate to coverage bias? Sociological Methods \& Research. https://doi.org/10.1177/0049124118782539 『

American Association for Public Opinion Research. (2016). Address-based sampling (prepared for AAPOR Council by the Task Force on Address-Based Sampling; R. Harter, Chair). Oakbrook Terrace, IL: Author. Retrieved from http://www.aapor.org/Education-Resources/Reports/Address-based-Sampling.aspx ${ }^{\text {® }}$

American National Election Studies. (n.d.). 2008 Time Series Study. Retrieved from http://electionstudies.org/studypages/anes_timeseries_2008/anes_timeseries_2008.htm ©

ArcGIS. (2018). Put mapping in the hands of your field workforce. Retrieved from https://doc.arcgis.com/en/collector/ ©

Barboza, W. J., \& Abreu, D. A. (2017, July). Efficacy of mobile mapping technology for the June Area Survey. Presented at ISI2017, 61st World Statistics Conference, Marrakech, Morocco. Retrieved from
https://www.nass.usda.gov/Education_and_Outreach/Reports,_Presentations_and_Conferences/ Conferences/index.php

Center for Behavioral Health Statistics and Quality. (2017). 2016 National Survey on Drug Use and Health: Methodological resource book (Section 2, sample design report). Retrieved from https://www.samhsa.gov/data/

Center for Behavioral Health Statistics and Quality. (2015). 2013 National Survey on Drug Use and Health: Methodological Resource Book (Section 13, Statistical Inference Report). Substance Abuse and Mental Health Services Administration, Rockville, MD.

Centers for Disease Control and Prevention. (2016a). 2011-2013 National Survey of Family Growth (NSFG): Sample design documentation. Retrieved from https://www.cdc.gov/nchs/data/nsfg/nsfg_2011_2013_sampledesign.pdf

Centers for Disease Control and Prevention. (2016b). 2011-2013 National Survey of Family Growth (NSFG): Summary of design and data collection methods. Retrieved from https://www.cdc.gov/nchs/data/nsfg/nsfg_2011_2013_designanddatacollectionmethods.pdf

Centers for Disease Control and Prevention. (2017, August 10). National Survey of Family Growth. Retrieved from https://www.cdc.gov/nchs/nsfg/

Cunningham, D., Hunter, S., Justin, L., Morton, K., \& Stolzenberg, S. (2006). 2005 National Survey on Drug Use and Health Count and List Validity Study: Overall summary report (prepared for the Substance Abuse and Mental Health Services Administration, Office of Applied Studies, under Contract No. 283-2004-00022, RTI/0209009). Research Triangle Park, NC: RTI International.

De La Rosa, J. (2017). The implications of utilizing consumer grade GPS devices in a transportation setting. Presented at the American Association for Public Opinion Research annual conference, New Orleans, LA. Retrieved from https://twitter.com/JoshdelaRosa1/status/865295941657427969 ©

Dohrmann, S., Han, D., \& Mohadjer, L. (2006). Residential address lists vs. traditional listing: Enumerating households and group quarters. In Proceedings of the 2006 Joint Statistical Meetings, American Statistical Association, Survey Research Methods Section, Seattle, WA (pp. 2959-2964). Alexandria, VA: American Statistical Association.

Dohrmann, S., Han, D., \& Mohadjer, L. (2007). Improving coverage of residential address lists in multistage area samples. In Proceedings of the 2007 Joint Statistical Meetings, American Statistical Association, Section on Survey Research Methods, Salt Lake City, UT (pp. 32193126). Alexandria, VA: American Statistical Association.

Dohrmann, S., Harding, L., \& Li, L. (2008). Using digital imagery to update the measures of size in area segments. In Proceedings of the 2008 Joint Statistical Meetings, American Statistical Association, Section on Survey Research Methods, Denver, Colorado (pp. 1718-1725). Washington, DC: American Statistical Association.

Dohrmann, S., Kalton, G., Montaquila, J., Good, C., \& Berlin, M. (2012). Using address-based sampling frames in lieu of traditional listing: A new approach. In Proceedings of the 2012 Joint Statistical Meetings, American Statistical Association, Survey Research Methods Section, San Diego, CA (pp. 3729-3741). Alexandria, VA: American Statistical Association.

Dohrmann, S., \& Sigman, R. (2013). Using an area linkage method to improve the coverage of abs frames for in-person household surveys. In Proceedings of Federal Committee on Statistical Methodology (FCSM) research conference. Washington, DC: Federal Committee on Statistical Methodology.

Eckman, S., \& English, N. (2012a). Geocoding to create survey frames. Survey Practice, 5(4), $1-8$. Retrieved from https://www.surveypractice.org/ ${ }^{-1}$

Eckman, S., \& English, N. (2012b). Creating housing unit frames from address databases:
Geocoding precision and net coverage rates. Field Methods, 24, 399-408.
https://doi.org/10.1177/1525822×12445141 ©

Eckman, S., \& Kreuter, F. (2011). Confirmation bias in housing unit listing. Public Opinion Quarterly, 75, 139-150. https://doi.org/10.1093/poq/nfq066 ©

Eckman, S., \& Kreuter, F. (2013). Undercoverage rates and undercoverage bias in traditional housing unit listing. Sociological Methods and Research, 42, 264-293.
https://doi.org/10.1177/0049124113500477 ©
English, N., Bilgen, I., \& Fiorio, L. (2012a). Coverage implications of targeted lists for rare populations. In Proceedings of the 2012 Joint Statistical Meetings, American Statistical Association, Section on Survey Research Methods, San Diego, CA (pp. 4521-4528). Alexandria, VA: American Statistical Association.

English, N., Dekker, K., \& O'Muircheartaigh, C. (2013, November). Correcting coverage deficiencies in address-based frames: The use of enhanced listing. Presented at the Federal Committee on Statistical Methodology Research Conference, Washington, DC.

English, N., O'Muircheartaigh, C., Dekker, K., Bilgen, I., Fiorio, L., Clausen, M ., \& Brooks, T. (2012b). Predicting when to adopt given frame construction methods: Modeling coverage and cost benefits. In Proceedings of the 2012 Joint Statistical Meetings, American Statistical Association, Section on Survey Research Methods, AAPOR 2012, San Diego, CA (pp. 55575569). Alexandria, VA: American Statistical Association.

English, N., O'Muircheartaigh, C., Eckman, S., Dekker, K., \& Latterner, M. (2009). Coverage rates and coverage bias in housing unit frames. In Proceedings of the 2009 Joint Statistical Meetings, American Statistical Association, Section on Survey Research Methods, Washington, DC [CD ROM]. Alexandria, VA: American Statistical Association.

Harter, R. (2016). The quality of auxiliary variables in an enhanced address-based sampling frame (Invited presentation). In Proceedings of the 2016 Joint Statistical Meetings, American Statistical Association, Section on Government Statistics, Chicago, IL (pp. 74-89). Alexandria, VA: American Statistical Association. Retrieved from http://abs.rti.org/files/publications/Harter_AuxVarQuality_final.pdf ${ }^{\boldsymbol{*}}$

Harter, R., Amaya, A., Day, O., Kowalski, A., \& Shook-Sa, B. (2016, May 31). Executive summary of CHUM work group findings so far. Internal report. Research Triangle Park, NC: RTI International.

Harter, R., Dekker, K., Wiencrot, A., English, N., Fu, J., Hess, M., Shah, H., \& Parsell, B. (2011). Comparing the coverage of alternative address frames for the 2009 Residential Energy Consumption Survey. In Proceedings of the 2011 Joint Statistical Meetings, American Statistical Association, Section on Survey Research Methods, Atlanta, GA (pp. 4239-4249). Alexandria, VA: American Statistical Association. Retrieved from https://www.amstat.org/asa/membership/Sections-and-Interest-Groups.aspx ${ }^{\text {® }}$

Harter, R., \& English, N. (2018). Overview of three field methods for improving coverage of address-based samples for in-person interviews. Journal of Survey Statistics and Methodology. http://dx.doi.org/10.1093/jssam/smx037 ©

Howell, D. (2015). Methodological disclosure document. Retrieved from https://electionstudies.org/ ©

Hsu, V., Montaquila, J. M., \& Brick, J. M. (2010). Using a "match rate" model to predict areas where USPS-based address lists may be used in place of traditional listing. In Proceedings of the 2010 Joint Statistical Meetings, American Statistical Association, Section on Survey Research Methods, Vancouver, British Columbia, Canada (pp. 1549-1560). Alexandria, VA: American Statistical Association.

Iannacchione, V., McMichael, J., Shook-Sa, B., \& Morton, K. (2012). A proposed hybrid sampling frame for the National Survey on Drug Use and Health (prepared for the Substance Abuse and Mental Health Services Administration under Contract No. 283-2004-00022). Research Triangle Park, NC: RTI International.

Iannacchione, V., Morton, K., McMichael, J., Cunningham, D., Cajka, J., \& Chromy, J. (2007). Comparing the coverage of a household sampling frame based on mailing addresses to a frame based on field enumeration. In Proceedings of the 2007 Joint Statistical Meetings, American Statistical Association, Section on Survey Research Methods, Salt Lake City, UT (pp. 33233332). Alexandria, VA: American Statistical Association.

Iannacchione, V. G., Morton, K., McMichael, J., Shook-Sa, B., Ridenhour, J., Stolzenberg, S., Bergeron, D., Chromy, J., \& Hughes, A. (2010). The best of both worlds: A sampling frame based on address-based sampling and field enumeration. In Proceedings of the 2010 Joint Statistical Meetings, American Statistical Association, Section on Survey Research Methods, Vancouver, British Columbia, Canada (pp. 3153-3165). Alexandria, VA: American Statistical Association.

Johanson, C., Scheu, M., \& Wechter, K. (2011, December 19). 2010 census operational assessment for type of enumeration area delineation: Revised final draft (2010 Census Program for Evaluations and Experiments). Retrieved from https://www.census.gov/2010census/pdf/2010_Census_TEA_Delineation_Assessment.pdf

Kali, J., Sigman, R., Ren, W., \& Jones, M. (2014). Experiences with the use of addressed based sampling in in-person national household surveys. In Proceedings of the 2014 Joint Statistical Meetings, American Statistical Association, Section on Survey Research Methods, Boston, MA (pp. 3050-3059). Alexandria, VA: American Statistical Association.

Kalton, G., Kali, J., \& Sigman, R. (2014). Handling frame problems when address-based sampling is used for in-person household surveys. Journal of Survey Statistics and Methodology, 2, 283-304. https://doi.org/10.1093/jssam/smu013 © ${ }^{\text {® }}$

Kennel, T. L., \& Li, M. (2009). Content and coverage quality of a commercial address list as a national sampling frame for household surveys. In Proceeding of the 2009 Joint Statistical Meetings, American Statistical Association, Section on Survey Research Methods, Washington, DC (pp. 2364-2378). Alexandria, VA: American Statistical Association.

Kish, L. (1965). Survey sampling. New York, NY: John Wiley \& Sons.

Martin, J. M., \& Loudermilk, C. L. (2008). Assessing the filter rules for extracting addresses from the master address file to construct a housing unit frame for current demographic surveys. In Proceedings of the 2008 Joint Statistical Meetings, American Statistical Association, Section on Survey Research Methods, Denver, CO (pp. 1359-1366). Alexandria, VA: American Statistical Association.

McMichael, J., Ridenhour, J., Keating, M., \& Krotki, K. (2014). The use and limitations of ground captured GPS coordinates for address-based samples and in-person surveys. Presented at the American Association for Public Opinion Research (AAPOR) 69th Annual Conference, Anaheim, CA.

McMichael, J. P. (2015, August). ABS coverage evaluation: Recommendations for evaluating the household coverage of address-based sampling frames. In Proceedings of the 2015 Joint Statistical Meetings, American Statistical Association, Section on Survey Research Methods, Seattle, WA (pp. 2279-2280). Alexandria, VA: American Statistical Association.

McMichael, J. P. (2017, February). Address counts overview: Visualization. Retrieved from http://abs.rti.org/atlas/addresses/viz ${ }^{\text {T }}$

Montaquila, J. M., Hsu, V., \& Brick, J. M. (2011). Using a "match rate" model to predict areas where USPS-based address lists may be used in place of traditional listing. Public Opinion Quarterly, 75, 317-335. https://doi.org/10.1093/poq/nfr008 ©

Montaquila, J. M., Hsu, V., Brick, J. M., English, N., \& O'Muircheartaigh, C. (2009). A comparative evaluation of traditional listing vs. address-based sampling frames: Matching with field investigation of discrepancies. In Proceeding of the 2009 Joint Statistical Meetings, American Statistical Association, Section on Survey Research Methods, Washington, DC (pp. 4455-4862). Alexandria, VA: American Statistical Association. Alexandria, VA: American Statistical Association.

Morton, K., McMichael, J., Ridenhour, J., \& Bose, J. (2010). Address-based sampling and the National Survey on Drug Use and Health: Evaluating the effects of coverage bias. In Proceedings of the 2010 Joint Statistical Meetings, American Statistical Association, Section on Survey Research Methods, Vancouver, British Columbia (pp. 4902-4907). Alexandria, VA: American Statistical Association.

National Academies of Sciences, Engineering, and Medicine. (2016). Reducing response burden in the American Community Survey: Proceedings of a workshop. Washington, DC: The National Academies Press. https://doi.org/10.17226/23639 ©

National Research Council. (2012). Small populations, large effects: Improving the measurement of the group quarters population in the American Community Survey (P. R. Voss \& K. Marton, Eds., Panel on Statistical Methods for Measuring the Group Quarters Population in the American Community Survey, Committee on National Statistics, Division of Behavioral and Social Sciences and Education). Washington, DC: National Academies Press.

NORC. (n.d.). 2010 national sample frame. Retrieved from
http://www.norc.org/Research/Projects/Pages/2010-national-sample-frame.aspx $\uplus^{\star}$

O'Muircheartaigh, C., Eckman, S., \& Weiss, C. (2002). Traditional and enhanced field listing for probability sampling. In Proceedings of the 2002 Joint Statistical Meetings, American Statistical Association, Section on Survey Research Methods, New York, NY (pp. 2563-2576). Alexandria, VA: American Statistical Association. Retrieved from https://www.amstat.org/asa/membership/Sections-and-Interest-Groups.aspx ${ }^{\top}$

O'Muircheartaigh, C., English, N., \& Eckman, S. (2007). Predicting the relative quality of alternative sampling frames. In Proceedings of the 2007 Joint Statistical Meetings, American Statistical Association, Section on Survey Research Methods, Salt Lake City, UT (pp. 32393248). Alexandria, VA: American Statistical Association.

O'Muircheartaigh, C., English, N., Eckman, S., Upchurch, H., Garcia, E., \& Lepkowski, J. (2006). Validating a sampling revolution: Benchmarking address lists against traditional listing. In Proceedings of the 2006 Joint Statistical Meetings, American Statistical Association, Section on Survey Research Methods, Seattle, WA (pp. 4182-4196). Alexandria, VA: American Statistical Association.

O'Muircheartaigh, C., English, N., Latterner, M., Eckman, S., \& Dekker, K. (2009). Modeling the need for traditional vs. commercially available address listings for in-person surveys: Results from a National Validation of Addresses. In Proceedings of the 2009 Joint Statistical Meetings, American Statistical Association, Section on Survey Research Methods, AAPOR 2009, Washington, DC (pp. 6193-6202). Alexandria, VA: American Statistical Association.

RTI International. (2017). 2018 National Survey on Drug Use and Health: Counting and listing general manual (prepared for Substance Abuse and Mental Health Services Administration). Research Triangle Park, NC: Author.

Shook-Sa, B., Harter, R., McMichael, J., Ridenhour, J., \& Dever, J. (2016). The CHUM: A frame supplementation procedure for address-based sampling (RTI Press Publication No. MR-00341602). Research Triangle Park, NC: RTI Press. http://dx.doi.org/10.3768/rtipress.2016.mr.0034.1602 ${ }^{\text {® }}$

Shook-Sa, B. E., Currivan, D. B., McMichael, J. P., \& Iannacchione, V. G. (2013). Extending the coverage of address-based sampling frames: Beyond the USPS computerized delivery sequence file. Public Opinion Quarterly, 77, 994-1005. https://doi.org/10.1093/poq/nft041 ©

Shook-Sa, B. E., McMichael, J. P., Ridenhour, J. L., \& Iannacchione, V. G. (2010). The implications of geocoding error on address-based sampling. In Proceedings of the 2010 Joint Statistical Meetings, American Statistical Association, Section on Survey Research Methods (pp. 3303-3312). Alexandria, VA: American Statistical Association.

Shore, S. P., Montaquila, J. M., \& Hsu, V. (2010). The presence and characteristics of households at addresses obtained by traditional field listing and from USPS-based lists. In Proceedings of the 2010 Joint Statistical Meetings, American Statistical Association, Section on Survey Research Methods, Vancouver, British Columbia, Canada (pp. 1709-1718). Alexandria, VA: American Statistical Association.

Staab, J., \& Iannacchione, V. (2003). Evaluating the use of residential mailing addresses in a national household survey. In Proceedings of the 2003 Joint Statistical Meetings, American Statistical Association, Section on Survey Research Methods, San Francisco, CA (pp. 40284033). Alexandria, VA: American Statistical Association. Retrieved from https://www.amstat.org/asa/membership/Sections-and-Interest-Groups.aspx ${ }^{\star}$

Tomaszewski, C. G., \& Shaw, K. (2013). 2010 census evaluation of address list maintenance using supplemental data sources. Retrieved from https://www.census.gov/2010census/pdf/2010 Census Evaluation of Address Listing Mainten ance_Using_Supplemental_Data_Sources.pdf

Unangst, J. J., \& McMichael, J. (2015). Tracking and evaluating changes to address-based sampling frames over time. In Proceedings of the 2015 Joint Statistical Meetings, American Statistical Association, Section on Survey Research Methods, Seattle, WA (pp. 4310-4316). Alexandria: American Statistical Association. Retrieved from https://www.amstat.org/asa/membership/Sections-and-Interest-Groups.aspx $\leftarrow^{\star}$

Wheaton, W. D., Rineer, J., Chrest, D., \& Cajka, J. (2017). Evaluation of online versus field listing. Unpublished poster, RTI International, Research Triange Park, NC.

WhiteHouse.gov. (2006). Office of Management and Budget standards and guidelines for statistical surveys. Retrieved from https://unstats.un.org/unsd/dnss/docsnqaf/USA standards stat surveys.pdf ${ }^{\boldsymbol{\pi}}$

Wiant, K., McMichael, J., Murphy, J., Morton, K., \& Waggy, M. (2016). Consistency and accuracy of USPS-provided undeliverable codes: Implications for frame construction, data collection operational decisions, and response rate calculations. In Proceedings of the 2016 Joint Statistical Meetings, American Statistical Association, AAPOR 2016, Chicago, IL (pp. 40604071). Alexandria: American Statistical Association.

Ying, S. (2012). Identifying excluded from delivery statistics records that elude the American Community Survey housing unit frame filters: Final report. Retrieved from https://www.census.gov/content/dam/Census/library/workingpapers/2012/acs/2012_Ying 01.pdf

Zandbergen, P. A. (2011). Influence of street reference data on geocoding quality. Geocarto International, 26(1), 35-47. https://doi.org/10.1080/10106049.2010.537374

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This methodological report was prepared by the Substance Abuse and Mental Health Services Administration (SAMHSA), Center for Behavioral Health Statistics and Quality, and RTI International (a registered trademark and a trade name of Research Triangle Institute). Work by RTI was performed under Contract No. HHSS283201300001C. Peter Tice served as the Government Project Officer, and David Hunter served as the RTI Project Director.

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# Appendix A: The Effect of Using an ABS Frame on NSDUH: Coverage Bias 

## Introduction

As part of the National Survey on Drug Use and Health (NSDUH) redesign, the Substance Abuse and Mental Health Services Administration (SAMHSA) is considering moving from a field enumerated sample frame to a hybrid address-based sample (ABS) frame. Hybrid ABS uses the ABS frame in areas with high coverage, field listing in areas with low coverage, and the ABS frame with a coverage enhancement method (e.g., half-open interval [HOI]) in areas with moderate coverage. The ABS frame is constructed based on the U.S. Postal Service's (USPS) Computerized Delivery Sequence (CDS) file.

One of the concerns of using the ABS frame is the risk of coverage bias, which could arise from multiple sources:

- Some addresses may be incorrectly included or excluded from a sampled segment due to geocoding error.
- Some addresses do not represent the physical location of the dwelling unit and cannot be fielded in an in-person survey (e.g., households that only receive mail via a post office box).
- The CDS also does not include group quarters (GQs) and frequently excludes addresses on American Indian and Alaska Native (AIAN) tribal areas.

The purpose of this memo is to estimate how much coverage bias may be introduced by the exclusion of a subset of the NSDUH target population residing in areas with low to moderate ABS coverage on 15 of NSDUH's most important prevalence measures.

## Methods

To estimate bias, three datasets were created using the 2015 and 2016 NSDUH data, which were collected using a field enumerated (FE) sample. The first dataset is the combined full set of 2015 and 2016 NSDUH respondents ( $n=136,015$ ). It should be considered the control group and was used to create estimates assuming a field enumerated frame. This dataset is referred to as the "FE sample" in the remainder of this report.

## Subsample 1

The second dataset (Subsample 1) is a subset of the combined set of 2015 and 2016 NSDUH respondents, in which all respondents living at description-based addresses were excluded ( $n=128,944$ ). Because an ABS frame was not used in the 2015 and 2016 NSDUH, proxy information had to be used to determine which addresses were likely to be included on the field enumerated frame but excluded on the ABS frame. Description-based addresses were defined as all residential addresses that did not have street numbers (usually found in rural areas among housing units that receive mail through P.O. Boxes and not at-home delivery). These types of addresses cannot be included on an ABS frame because they cannot be geocoded and
located by interviewers. While the ABS frame also excludes GQs (e.g., college dormitories) and many housing units in AIAN tribal areas, these addresses were not excluded in this dataset. Instead, it was assumed that a supplemental frame (e.g., the Integrated Postsecondary Education Data System [IPEDS]) would be used to ensure individuals living in GQs were represented ${ }^{25}$ and that all segments that included AIAN tribal areas could be identified ahead of time and continue to be field enumerated. All GQs, even if they were missing a street number, were included in Subsample 1. Subsample 1 can be characterized as the NSDUH sample except for descriptive addresses.

## Subsample 2

The third dataset (Subsample 2) further subset the combined 2015 and 2016 NSDUH respondents by excluding GQs and addresses in AIAN tribal areas in addition to descriptionbased addresses $(n=125,179)$. This dataset was used to simulate prevalence estimates when using an ABS frame without enhancement (i.e., no supplemental frame of GQs and no listing of segments that included AIAN tribal areas). Subsample 2 can be characterized as the NSDUH sample that only includes addresses on the ABS frame.

Note that subsample 2 is contained in subsample 1, which is contained in the FE sample. Table A. 1 provides a summary of the cases excluded from each subsample.

Table A. 1 Excluded Addresses of Completed Households from Two Simulated ABS Frames (Subsample 1 and Subsample 2)

| Type of Address | Subsample 1. Sample Excluding <br> Description-Based Addresses |  |  | Subsample 2. Sample Excluding GQ, <br> AIAN Tribal Areas, and Description- <br> Based Addresses |
| :--- | :---: | :---: | :---: | :---: |
|  | $\mathbf{N}$ | Percent of FE Sample | $\mathbf{N}$ | Percent of FE Sample |
|  | 7,071 | 5.2 | 7,071 | 5.2 |
| Group Quarters | 0 | 0.0 | 3,325 | 2.4 |
| Addresses in AIAN tribal areas | 0 | 0.0 | 1,351 | 1.0 |
| Total excluded addresses ${ }^{1}$ | 7,071 | 5.2 | 10,836 | 8.0 |

${ }^{1}$ The total is less than the sum of the address types due to 911 addresses counted in multiple categories. Six addresses were excluded because they were GQs in AIAN tribal areas, and 905 addresses were descriptive addresses in AIAN tribal areas.

## Analyses

For each dataset, 15 prevalence estimates were constructed:

- Past month binge alcohol use (BNGDRKMON)
- Past month marijuana use (MRJMON)
- Past year mental health service use (inpatient, outpatient, or prescription meds; age 18+) (AMHTXRC)

[^17]- Past month stimulant use (STMNMMON)
- Past year serious mental illness (SMI) (age 18+) (SMIYR_U)
- Past month alcohol use (ALCMON)
- Past month cigarette use (CIGMON)
- Past year alcohol use disorder (ABODALC)
- Substance use disorder (UDPYILAL)
- Past year any mental illness (AMI) (age 18+) (AMIYR_U)
- Past year MDE (age $18+$ ) (AMDEYR2)
- Past month pain reliever use (PNRNMMON)
- Past year illicit drug use disorder (UDPYILL)
- Past year specialty substance use treatment (TXYRSPILAL)
- Past year major depressive episode (MDE) (12-17) (YMDEYR2)

These variables were chosen by SAMHSA as the most important. Estimates were created by applying the post-stratified weights. Each dataset was post-stratified to account for the subset and more accurately simulate the estimates that would result from an ABS frame. ${ }^{26}$

Estimates from the FE sample (the complete set of 2015 and 2016 NSDUH respondents) were compared with estimates from each of the subset datasets (Subsample 1 and Subsample 2) using standard $t$-tests for differences in proportions. Because the subsamples were a subset of the FE sample, comparisons between them violate the assumption of independence. All comparisons were conducted using the stacked method to account for the covariance caused from this violation (Center for Behavioral Health Statistics and Quality, 2015). Three sets of comparisons were made:

- overall (i.e., full population estimate);
- categories within eight domains - college enrollment status, age, sex, Hispanicity, race, pregnancy status, census division, and county type; and
- categories within 13 two-way cross-domains.

A maximum of 346 comparisons were possible for each dataset/measure combination. However, not all estimates were constructed and compared or all domains and two-way crossdomains. Comparisons were not conducted if estimates were suppressed using the standard NSDUH suppression criteria or if the comparison was not applicable (e.g., past year SMI for individuals 12-17 years of age).

[^18]
## Results

Across the three datasets, measures, domains, and cross-domains, a total of 8,702 comparisons were created. Domain counts may be found in Appendix B, and all comparisons may be found in Appendices C-Q. However, looking at all comparisons is overwhelming and not practical. Instead, the results have been summarized in four ways. First, the overall estimates as derived from the subsamples were compared with the FE sample. Second, the absolute and relative difference was calculated for each variable across samples and by domain. Variables of interest were evaluated on the proportion of comparisons that were significantly different at the 0.05 level and the magnitude of the change in estimates across samples. Third, comparisons were summarized by domain and sample size (as opposed to prevalence estimate) to identify whether some domains or samples were more susceptible to a frame shift than others. Finally, substantive analyses (e.g., comparisons of prevalence across subdomains) were conducted by sample to identify whether conclusions from multivariate or time-series analyses would change.

## Summary 1. Differences in Overall Estimates by Sample

Table A. 2 displays the overall estimates produced using each of the three samples. When comparing the estimates from the two subsamples to the FE sample, seven significant differences were found. Both subsamples resulted in significantly higher prevalence of alcohol use in the past month and alcohol disorder within the past year. Both subsamples also yielded a significantly lower estimate of cigarette use in the past month. Only the first subsample, excluding description-based addresses, produced a significantly different estimate for use of mental health services in the past year. All seven of the observed significant differences were small, 0.1 to 0.2 percentage points (absolute difference) and 0.6 to 1.8 percent (relative difference).

Table A. 2 Key Estimates Among Two Simulated ABS Frames (Subsample 1 and Subsample 2) Compared with the 2015-2016 NSDUH Field Enumerated Frame (FE Sample)

| Variable | FE Sample |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal areas, and Description-Based <br> Addresses |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0}$ s) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent |
| BNGDRKMON | 66,008 | 24.6 | 66,015 | 24.6 | 66,113 | 24.6 |
| MRJMON | 23,104 | 8.6 | 23,056 | 8.6 | 22,992 | 8.6 |
| STMNMMON | 1,694 | 0.6 | 1,704 | 0.6 | 1,711 | 0.6 |
| SMIYR_U | 10,063 | 4.1 | 10,040 | 4.1 | 10,035 | 4.1 |
| ALCMON | 137,528 | 51.2 | 138,060 | $51.4{ }^{\text {a }}$ | 138,297 | $51.5^{\text {a }}$ |
| CIGMON | 51,642 | 19.2 | 50,992 | $19.0^{\text {a }}$ | 50,998 | $19.0^{\text {a }}$ |
| ABODALC | 15,396 | 5.7 | 15,535 | $5.8^{\text {a }}$ | 15,548 | $5.8^{\text {a }}$ |
| UDPYILL | 7,559 | 2.8 | 7,565 | 2.8 | 7,507 | 2.8 |
| AMIYR_U | 44,036 | 18.1 | 44,071 | 18.1 | 44,051 | 18.1 |
| AMHTXRC | 34,612 | 14.3 | 34,825 | $14.4{ }^{\text {a }}$ | 34,752 | 14.3 |
| AMDEYR2 | 16,152 | 6.7 | 16,209 | 6.7 | 16,230 | 6.7 |
| PNRNMMON | 3,562 | 1.3 | 3,528 | 1.3 | 3,511 | 1.3 |
| UDPYILAL | 20,461 | 7.6 | 20,568 | 7.7 | 20,543 | 7.6 |
| TXYRSPILAL | 2,287 | 0.9 | 2,298 | 0.9 | 2,255 | 0.8 |
| YMDEYR2 | 3,060 | 12.6 | 3,064 | 12.6 | 3,066 | 12.7 |

${ }^{\text {a }}$ the estimate is significantly different from the FE Sample at the 0.05 level.

## Summary 2. Absolute and Relative Differences in Estimates by Measure

Comparisons were summarized and reviewed across all domains by absolute bias. Table A. 3 shows the number of comparisons made for each subset dataset and each measure. Among the comparisons for each dataset/measure combination, the percentage of comparisons that were significant at $\alpha=0.05$ is reported. Due to sampling error and the number of tests conducted, 435 comparisons ( 5 percent) were expected to be statistically significant by chance even if no differences existed between the samples.

Given the large sample sizes and significant sample overlap for most comparisons and the resulting small standard errors, many statistically significant comparisons would not be practically significant (i.e., the magnitude of the difference would be quite small). Therefore, two additional columns were included to account for practical significance. The first reports the percentage of statistically significant comparisons for which the absolute difference between the rounded field enumerated frame estimate and the rounded subset estimate $\left(\left|p_{\text {subset }}-p_{\text {full }}\right|\right)$ was greater than 0.1 percentage points. The second reports the percentage of all comparisons that were both significant and produced an absolute difference greater than 0.1 percentage points.

Figure A. 1 is included to provide a more complete view of the absolute differences between the FE sample and the subsets. Blue represents Subsample 1 (excluding descriptionbased addresses), and red represents Subsample 2 (excluding GQ, AIAN tribal areas, and description-based addresses). Each pane in the figure displays the absolute bias for a given estimate. On the right side of each pane is a bar chart. This represents the proportion of all
comparisons that produced significant differences. It is consistent with the second and sixth columns in Table A. 3 (percentage of Comparisons $p<0.05$ ). The left side of each pane displays the cumulative percentage of significant comparisons ( y -axis) by the absolute difference ( x -axis).

Across all variables and all domains, 12 percent of Subsample 1 estimates and 9 percent of Subsample 2 estimates were significantly different from the estimates produced using the FE sample. Many of the significant comparisons were the result of small percentage point differences. Over one third ( 37 percent) of Subsample 1 and nearly one quarter ( 24 percent) of Subsample 2 significant comparisons were no more than 0.1 percentage points different from the FE sample. In general, this suggests that while the ABS frame may introduce a trend break, it will not be universal. Most comparisons ( 88 percent and 91 percent for Subsample 1 and Subsample 2, respectively) would not suffer any change. Given NSDUH's large sample sizes, comparisons often produce statistically significant differences that are not meaningful.

However, the effect of a frame switch varied by variable. For example, comparisons of stimulant use within the past year (SMIYR_U) were relatively unchanged across frames and within domains. Only 4 percent of Subsample 1 comparisons and 2 percent of Subsample 2 comparisons were significantly different from the FE Sample, fewer than would be expected by chance. Estimates for alcohol use within the past month (ALCMON) were much more susceptible to frame changes. In each subsample, 24 percent of all comparisons were significantly different from the FE Sample estimate, and nearly all ( 97 percent and 100 percent in Subsample 1 and Subsample 2, respectively) significant differences were larger than 0.1 percentage points. Looking at Figure A.1, approximately 10 percent of significant differences in Subsample 1 and 20 percent in Subsample 2 were larger than 1.0 percentage points.

Table A. 3 Estimated Absolute Bias Among Two Simulated ABS Frames (Subsample 1 and Subsample 2) Compared with the 2015-2016 NSDUH Field Enumerated Frame (FE Sample)

| Variable | Subsample 1. Sample Excluding Description-Based Addresses |  |  |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | \# of Comparisons Made | $\begin{gathered} \% \text { of } \\ \text { Comparisons } \\ p<0.05 \end{gathered}$ | \% of Signif. <br> Diff. that <br> Changed <br> $>0.1 \mathbf{p p}^{\dagger}$ | \% of All Comparisons that Changed $>0.1 \mathrm{pp} \&$ were Signif. Diff. | \# of Comparisons Made | $\begin{gathered} \% \text { of } \\ \text { Comparisons } \\ p<0.05 \end{gathered}$ | \% of Signif. <br> Diff. that <br> Changed <br> $>0.1 \mathbf{p p}^{\dagger}$ | \% of All Comparisons that Changed >0.1pp \& were Signif. Diff. |
| Total | 4,373 | 12 | 63 | 7 | 4,329 | 9 | 76 | 6 |
| BNGDRKMON | 320 | 7 | 59 | 4 | 319 | 6 | 95 | 6 |
| MRJMON | 325 | 6 | 78 | 4 | 321 | 3 | 91 | 3 |
| STMNMMON | 302 | 6 | 11 | 1 | 301 | 3 | 10 | 0 |
| SMIYR U | 261 | 4 | 40 | 2 | 259 | 2 | 67 | 2 |
| ALCMON | 318 | 24 | 97 | 23 | 316 | 24 | 100 | 24 |
| CIGMON | 321 | 28 | 96 | 27 | 317 | 21 | 100 | 21 |
| ABODALC | 322 | 21 | 41 | 9 | 319 | 8 | 50 | 4 |
| UDPYILL | 325 | 11 | 40 | 4 | 319 | 8 | 62 | 5 |
| AMIYR_U | 259 | 10 | 84 | 8 | 257 | 7 | 100 | 7 |
| AMHTXRC | 259 | 14 | 51 | 7 | 254 | 8 | 75 | 6 |
| AMDEYR2 | 259 | 6 | 56 | 3 | 257 | 12 | 70 | 8 |
| PNRNMMON | 318 | 8 | 8 | 1 | 314 | 9 | 10 | 1 |
| UDPYILAL | 324 | 11 | 54 | 6 | 321 | 4 | 83 | 3 |
| TXYRSPILAL | 308 | 7 | 17 | 1 | 305 | 4 | 0 | 0 |
| YMDEYR2 | 152 | 7 | 100 | 7 | 150 | 5 | 100 | 5 |

${ }^{\dagger}$ pp=percentage point. Several cells have very small sample sizes ( $5-10$ ). The percentages should be interpreted with caution.

Figure A. 1 Estimated Absolute Coverage Bias Among Significant Comparisons of 15 Estimates for Two Simulated ABS Frames (Subsample 1 and Subsample 2) Compared with the 2015-2016 NSDUH Field Enumerated Frame (FE Sample)


Some measured behaviors are very prevalent while others are rare. For example, 51.2 percent of the population have consumed an alcoholic beverage in the past month while only 0.6 percent have misused a stimulant in the past month. A 0.1 percentage point change in alcohol consumption estimates may not be perceived as a large difference between samples (regardless of significance testing) whereas the same change in stimulant use may be interpreted as very large. To account for difference in prevalence, results were also reviewed by relative bias. Table A. 4 and Figure A. 2 follow the same layout as Table A. 3 and Figure A.1, respectively. Instead of displaying the absolute difference, Table A. 4 displays the percentage of statistically significant comparisons for which the relative difference $\left(\frac{\left|p_{\text {subset }-p_{\text {ful }}}\right|}{p_{\text {full }}} * 100\right)$ was greater than 1 percent and the percentage of all comparisons that were both significant and produced a relative difference greater than 1 percent. The x -axis of Figure A. 2 is the relative difference.

The findings across all variables and all domains look similar to the absolute difference analysis-67 percent of significant comparisons between Subsample 1 and the FE Sample and 72 percent between Subsample 2 and the FE Sample were more than 1 percent different from each other. Also similar to the absolute difference analysis, the magnitude of the difference varied by measure. Most significant differences ( 81 percent and 83 percent for Subsample 1 and Subsample 2, respectively) among estimates of cigarette use in the past month (CIGMON) were greater than 1 percent while approximately one third ( 33 percent and 36 percent for Subsample 1 and Subsample 2, respectively) of significant comparisons among estimates of alcohol use in the past month (ALCMON) were greater than 1 percent different.

For interpretative purposes, the 15 variables of interest were grouped into four categories: (1) variables that were unaffected by the shift to an ABS frame, (2) variables that suffered bias for few domains, but the bias was large when observed, (3) variables that suffered bias for many domains but for which the bias was small, and (4) variables that suffered bias for many domains and the bias was large when observed. Variables were categorized by reviewing data in Tables A. 3 and A. 4 and the graphs in Figures A. 1 and A.2; no mathematical cutoffs were established. While several variables behaved similarly between both subsamples, some did not.

Variables were categorized independently for each of the two subsamples and are displayed in Table A. 5 Variables found in the cells on the diagonal were similar between subsamples while those in cells off the diagonal varied by subsample. Eight of the 15 variables ( 53 percent) performed similarly in both subsamples. The remaining seven variables behaved differently between the two subsamples. This suggests a complex relationship between coverage and weighting. In the above analyses, differences between the FE sample and the subsamples suggests the presence of coverage bias that is not corrected by weighting. The variables placed in the off diagonals in Table A. 5 suggests that the coverage bias is different between the two subsamples. Because Subsample 2 is a further subset of Subsample 1, it may be expected that the two subsamples would vary. However, if coverage bias were linear, the bias of Subsample 2 variables should be larger. Table A. 5 shows that the bias varies, and estimates within Subsample 2 are frequently less prone to bias.

Table A. 4 Estimated Relative Bias Among Two Simulated ABS Frames (Subsample 1 and Subsample 2) Compared with the 2015-2016 NSDUH Field Enumerated Frame (FE Sample)

| Variable | Subsample 1. Sample Excluding Description-Based Addresses |  |  |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | \# of Comparisons Made | $\begin{gathered} \% \text { of } \\ \text { Comparisons } \\ p<0.05 \end{gathered}$ | \% of Signif. <br> Diff. that <br> Changed $>0.1 \mathbf{p p}^{\dagger}$ | \% of All Comparisons that Changed $>0.1 \mathrm{pp}$ \& were Signif. Diff. | \# of Comparisons Made | $\begin{gathered} \% \text { of } \\ \text { Comparisons } \\ p<0.05 \end{gathered}$ | \% of Signif. <br> Diff. that <br> Changed $>0.1 \mathbf{p p}^{\dagger}$ | \% of All Comparisons that Changed $>0.1 \mathrm{pp} \&$ were Signif. Diff. |
| Total | 4,373 | 12 | 67 | 8 | 4,329 | 9 | 72 | 6 |
| BNGDRKMON | 320 | 7 | 36 | 3 | 319 | 6 | 84 | 5 |
| MRJMON | 325 | 6 | 67 | 4 | 321 | 3 | 100 | 3 |
| STMNMMON | 302 | 6 | 28 | 2 | 301 | 3 | 40 | 1 |
| SMIYR_U | 261 | 4 | 90 | 3 | 259 | 2 | 100 | 2 |
| ALCMON | 318 | 24 | 33 | 8 | 316 | 24 | 36 | 9 |
| CIGMON | 321 | 28 | 81 | 23 | 317 | 21 | 83 | 17 |
| ABODALC | 322 | 21 | 80 | 17 | 319 | 8 | 92 | 8 |
| UDPYILL | 325 | 11 | 77 | 8 | 319 | 8 | 92 | 8 |
| AMIYR_U | 259 | 10 | 68 | 7 | 257 | 7 | 67 | 5 |
| AMHTXRC | 259 | 14 | 51 | 7 | 254 | 8 | 75 | 6 |
| AMDEYR2 | 259 | 6 | 94 | 6 | 257 | 12 | 93 | 11 |
| PNRNMMON | 318 | 8 | 71 | 5 | 314 | 9 | 66 | 6 |
| UDPYILAL | 324 | 11 | 89 | 10 | 321 | 4 | 100 | 4 |
| TXYRSPILAL | 308 | 7 | 74 | 6 | 305 | 4 | 50 | 2 |
| YMDEYR2 | 152 | 7 | 100 | 7 | 150 | 5 | 100 | 5 |

${ }^{\dagger}$ Several cells have very small sample sizes (5-10). The percentages should be interpreted with caution.

Figure A. 2 Estimated Relative Coverage Bias Among Significant Comparisons of 15 Estimates for Two Simulated ABS Frames (Subsample 1 and Subsample 2) Compared with the 2015-2016 NSDUH Field Enumerated Frame (FE Sample)





Table A. 5 Categorization of Variables by Number and Magnitude of Significant Differences by Two Simulated ABS Frames (Subsample 1 and Subsample 2)

| Subsample 1: Sample Excluding Description-Based Addresses | Subsample 2: Sample Excluding GQ, AIAN Tribal Areas, And DescriptionBased Addresses |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Variables Unaffected By the Shift to an ABS Frame | Variables That Will Suffer Bias for Few Domains, But the Bias Will Be Large When Observed | Variables That Will Suffer Bias for Many <br> Domains But for Which the Bias Will Be Small | Variables That Will Suffer Bias for Many <br> Domains, and the Bias Will Be Large |
| Variables unaffected by the shift to an ABS frame | - BNGDRKMON <br> - STMNMMON <br> - SMIYR U |  |  |  |
| Variables that will suffer bias for few domains, but the bias will be large when observed | - UDPYILAL <br> - TXYRSPIL <br> - MRJMON | - PNRNMMON |  | - AMDEYR2 |
| Variables that will suffer bias for many domains but for which the bias will be small |  | - AMHTXRC | - ALCMON <br> - CIGMON <br> - AMIYR_U |  |
| Variables that will suffer bias for many domains, and the bias will be large |  | - ABODALC |  | - UDPYILL |

Binge drinking within the past month (BNGDRKMON), stimulant use within the past month (STMNMMON), and SMI within the past year (age 18+) (SMIYR_U) were relatively unaffected by any frame change. Fewer than 5 percent of all comparisons for each of these variables produced significant absolute differences larger than 0.1 percentage points or relative differences larger than 1 percent for either subset dataset. In Figures A. 1 and A.2, the lines for both subsamples in the graphs for these variables approached 100 percent quickly, further suggesting these variables would be relatively unaffected by a frame change.

An additional three variables met these criteria for Subsample 2: substance use disorder within the past year (UDPYILL), specialty substance use treatment within the past year (TXYRSPILAL), and marijuana use within the past month (MRJMON). Subsample 1 estimates among these variables more frequently diverged from the FE Sample estimates and yielded larger differences than Subsample 2. ${ }^{27}$ For Subsample 1, these three variables were categorized into the second group-variables that suffered bias for few domains, but the bias was large when observed. Subsample 2 also produced estimates of having an alcohol disorder within the past year (ABODALC) with less relative coverage bias. Comparisons between the FE Sample and Subsample 2 resulted in significant differences 8 percent of the time as opposed to 21 percent for Subsample 1. The significant differences were relatively large for both subsamples. As a result,

[^19]ABODALC was placed in category 2 (few, but large differences) for Subsample 2 and in category 4 (many and large differences) for Subsample 1.

Past year MDE use (AMDEYR2) was the only variable that performed better in Subsample 1 than Subsample 2. Subsample 1 produced fewer significant differences when compared with the FE Sample (6 percent and 12 percent for Subsample 1 and Subsample 2, respectively), and the observed significant differences were much smaller than those observed between Subsample 2 and the FE Sample. AMDEYR2 was placed in category 2 (few but large differences) for Subsample 1 and category 4 for Subsample 2 (many and large differences).

Five of the remaining variables were similarly categorized in both samples. Of particular note is illicit drug use disorder within the past year (UDPYILL). Estimates created using data from Subsample 1 and Subsample 2, individually, were frequently different and the magnitude of the difference was often large. Among the FE Sample, 9.7 percent of American Indians and Alaskan Natives living in nonmetro areas with 20,000 people or more were estimated to have had an illicit drug use disorder. This number rose to 12.0 percent in Subsample 1-a difference of 24 percent or 2.3 percentage points.

The remaining variable, use of mental health services within the past year (AMHTXRC), was more often found to be significantly different from the FE Sample in Subsample 1 than Subsample 2, but the magnitude of significant differences was generally larger in Subsample 2 than Subsample 1.

## Summary 3. Differences in Estimates by Domain and Sample Size

Next, the data were summarized independently of the measures-first by domain (Table A.6) and then by sample size (Table A.7).

Table A. 6 includes two sets of columns and contain information similar to Tables A. 3 and A.4. For each subsample and domain, there is a count of the number of significance tests performed between the subsample and the FE sample and a percentage of how many of these comparisons were significant at $\alpha=0.05$. Note that adding the count of comparisons for a given subsample will yield a number higher than the total number of tests conducted. This is because tests performed on cross-domains were counted twice-once in each domain. For example, tests on estimates of Hispanic females were counted under "Hispanic" and "Female."

The number of significant differences varied by domain and by sample. Only 1 percent ( $n=1$ ) of the estimates produced for pregnant females aged 15-17 in Subsample 2 was significantly different from the FE sample estimates whereas 21 percent of estimates among all females in Subsample 1 were significantly different. In general, more estimates produced by age, sex, and college enrollment status were found to be significantly different from their FE counterpart than other domain estimates.

Table A. 6 Percentage of Significantly Different Comparisons by Two Simulated ABS Frames (Subsample 1 and Subsample 2) Compared with the 2015-2016 NSDUH Field Enumerated Frame by Subdomain

| Subdomain | Subsample 1. Sample Excluding Description-Based Addresses |  | Subsample 2. Sample Excluding GQ, AIAN tribal areas, and Description-Based Addresses |  |
| :---: | :---: | :---: | :---: | :---: |
|  | \# of Comparisons Made | $\begin{gathered} \% \text { of } \\ \text { Comparisons } \\ p<0.05 \\ \hline \end{gathered}$ | \# of Comparisons Made | $\begin{gathered} \% \text { of } \\ \text { Comparisons } \\ p<0.05 \\ \hline \end{gathered}$ |
| Age Group |  |  |  |  |
| 12-17 | 285 | 13 | 285 | 5 |
| 18+ | 364 | 13 | 364 | 10 |
| 18-25 | 391 | 16 | 391 | 7 |
| 26-49 | 364 | 13 | 364 | 14 |
| 50+ | 341 | 13 | 340 | 10 |
| Gender |  |  |  |  |
| Male | 110 | 19 | 110 | 10 |
| Female | 110 | 21 | 110 | 16 |
| Hispanicity |  |  |  |  |
| Hispanic/Latino | 322 | 3 | 321 | 4 |
| Not Hispanic/Latino | 336 | 17 | 336 | 13 |
| Race |  |  |  |  |
| White Only | 336 | 14 | 336 | 10 |
| Black Only | 318 | 9 | 318 | 7 |
| NHOPI Only | 153 | 2 | 150 | 3 |
| Asian Only | 258 | 5 | 254 | 5 |
| AIAN Only | 267 | 7 | 237 | 7 |
| 2 or More Races | 270 | 8 | 264 | 3 |
| Division |  |  |  |  |
| New England | 164 | 10 | 164 | 5 |
| Middle Atlantic | 196 | 8 | 196 | 6 |
| East North Central | 182 | 18 | 181 | 12 |
| West North Central | 167 | 7 | 165 | 7 |
| South Atlantic | 193 | 16 | 189 | 11 |
| East South Central | 149 | 11 | 146 | 13 |
| West South Central | 183 | 8 | 180 | 6 |
| Mountain | 188 | 9 | 188 | 6 |
| Pacific | 202 | 5 | 202 | 5 |
| County Type |  |  |  |  |
| Large Metro | 202 | 12 | 202 | 7 |
| Small Metro, pop 250K-1,000,000 | 200 | 9 | 200 | 5 |
| Small Metro, <250K population | 183 | 10 | 183 | 9 |
| Nonmetro, 20K or more urban pop | 186 | 10 | 178 | 2 |
| Nonmetro, 2,500-19,999 urban pop | 163 | 7 | 148 | 7 |
| Nonmetro, $<2,500$ urban pop | 122 | 8 | 115 | 5 |
| College Enrollment |  |  |  |  |
| Full-Time College Students | 42 | 14 | 42 | 10 |
| Other Persons Aged 18 to $22^{2}$ | 42 | 19 | 42 | 17 |
| Pregnancy |  |  |  |  |
| Pregnant Female Aged 15-44 | 96 | 4 | 96 | 1 |
| Not Pregnant Female Aged 15-44 | 173 | 14 | 173 | 12 |

Table A. 7 summarizes the comparisons by domain counts-how many cases were in the denominator of each estimate. When domain counts were less than 2,000 , the number of significant differences was frequently no greater than chance. However, the larger the domain counts, the smaller the detectable difference and the greater risk of identifying significant differences. Among estimates with domain counts of 10,000 or more, 17 percent of Subsample 1 estimates and 13 percent of Subsample 2 estimates were found to be significantly different from the estimates produced using the FE sample.

Table A. 7 Percentage of Significantly Different Comparisons by Two Simulated ABS Frames (Subsample 1 and Subsample 2) Compared with the 2015-2016 NSDUH Field Enumerated Frame by Subdomain Size

|  | Subsample 1. Sample Excluding <br> Description-Based Addresses |  | Subsample 2. Sample Excluding GQ, <br> AIAN Tribal Areas, and Description- <br> Based Addresses |  |
| :--- | :---: | :---: | :---: | :---: |
|  | \# of Comparisons <br> Made | of Comparisons <br> $\mathbf{p}<\mathbf{0 . 0 5}$ | \# of Comparisons <br> Made | \% of Comparisons <br> $\mathbf{p}<\mathbf{0 . 0 5}$ |
|  | 67 | 1 | 64 | 0 |
|  | 325 | 6 | 315 | 3 |
| $500-749$ | 197 | 4 | 196 | 5 |
| $750-999$ | 171 | 7 | 171 | 5 |
| $1,000-1,999$ | 511 | 5 | 539 | 4 |
| $2,000-2,999$ | 386 | 10 | 356 | 8 |
| $3,000-3,999$ | 273 | 10 | 298 | 9 |
| $4,000-4,999$ | 174 | 12 | 136 | 10 |
| $5,000-5,999$ | 184 | 13 | 169 | 12 |
| $6,000-6,999$ | 102 | 11 | 131 | 10 |
| $7,000-7,999$ | 89 | 11 | 133 | 3 |
| $8,000-8,999$ | 174 | 11 | 131 | 8 |
| $9,000-9,999$ | 89 | 12 | 103 | 7 |
| $>=10,000$ | 1,156 | 17 | 1,112 | 13 |

## Summary 4. Differences in Conclusions Drawn from Substantive Analyses

All the above analyses compared the estimates produced by the FE sample to each of the subsamples. These analyses can detect whether the estimates will differ by frame within a given year, but NSDUH data are more frequently used to compare subdomains within a year (e.g., do African Americans consume alcohol at a different rate than the overall population?) or to compare trends across years (e.g., has alcohol consumption changed over time?). The above analyses do not account for subdomain comparisons or trend analyses.

To determine whether a change in frame would yield different conclusions for subpopulation comparisons, 17 subpopulations were compared with the overall estimates for each measure and for each sample. The 17 subpopulations included Hispanics and nonHispanics, six race subpopulations, and the nine census divisions. These are the subpopulations for which comparisons are typically made using NSDUH data. The outcomes of the FE comparisons were then compared with each of the subsample comparisons. Ideally, the shift in frame will not shift the outcome of comparisons. For example, the estimate for alcohol consumption among African Americans was 42.6 percent using the FE sample. This was
significantly different from the overall population estimate of 51.2 percent within the FE sample. When comparing African Americans to the overall population within Subsample 1, the AfricanAmerican estimates are also significantly lower. The same conclusion, a lower proportion of African Americans have had an alcoholic drink within the past month than the population as a whole, would be reached in both samples.

Table A. 8 displays the summary of these comparisons by subsample and measure. The first two columns for each subsample include all agreements (both the FE and the subsample comparisons were significant at the. 05 level or both the FE and subsample comparisons failed to reach significance). Only 9 (4 percent) of the 255 total comparisons in Subsample 1 ( 17 subdomains x 15 measures) and 14 ( 6 percent) of the comparisons in Subsample 2 yielded different outcomes than the FE sample comparison. This is approximately the margin of error that would be expected when testing at the .05 significance level, suggesting that a frame change would result in an acceptably small number of different conclusions when making subdomain comparisons. There was variation by measure in both subsamples, but the number of comparisons for each measure was small ( $n=17$ ), making the estimates by measure unstable.

In addition to subdomain comparisons, researchers also use NSDUH data to assess changes over time. To determine whether a change in frame would create a trend break and limit researchers' ability to conduct time series analyses, it was proposed to recreate the subdomain analysis across years. For example, the FE 2014 estimates would be compared independently to the FE sample (2015-2016), Subsample 1, and Subsample 2. Differences in the outcomes (e.g., whether each comparison yielded a significant difference) would be compared across the FE sample and each subsample. Unfortunately, this analysis cannot be completed. A partial redesign was implemented in 2015. Comparisons between 2014 and other samples would conflate the trend break observed from the redesign with a simulated trend break created by a change in frame.

An alternative approach to assess the risk of a trend break is to review the number of comparisons that significantly change over time (e.g., 2015 vs. 2016) to the number of comparisons that significantly differed between the FE sample and each subsample. Appendices C-Q include columns that compare the 2015 NSDUH sample and the 2016 NSDUH sample, but they should be used with caution. It is possible that change occurs over time, resulting in a significant comparison between 2015 and 2016. The 2015-2016 FE sample could also be significantly different from the subsamples. The same outcome in both cases does not suggest that there is no trend break. These comparisons conflate trend breaks due to coverage bias with true change over time.

Table A. 8 Estimated Proportion of Subdomain Comparisons that Would Change Significance Given Two Simulated ABS Frames (Subsample 1 and Subsample 2) Compared with the 2015-2016 NSDUH Field Enumerated Frame (FE Sample) ( $n=17$ for Each Variable)

| Variable | Subsample 1. Sample Excluding Description-Based Addresses |  |  |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | FE \& Subsample Subdomain Est. Signif. Diff. | Neither Est. Signif. Diff. | FE Subdomain Est. Signif. Diff. | Subsample Subdomain Est. Signif. Diff. | FE \& Subsample Subdomain Est. Signif. Diff. | Neither Est. Signif. Diff. | FE Subdomain Est. Signif. Diff. | Subsample Subdomain Est. Signif. Diff. |
| Total | 51 | 45 | 1 | 2 | 51 | 44 | 2 | 4 |
| BNGDRKMON | 65 | 29 | 0 | 6 | 59 | 24 | 6 | 12 |
| MRJMON | 76 | 24 | 0 | 0 | 76 | 24 | 0 | 0 |
| STMNMMON | 41 | 59 | 0 | 0 | 41 | 59 | 0 | 0 |
| SMIYR_U | 53 | 47 | 0 | 0 | 53 | 47 | 0 | 0 |
| ALCMON | 88 | 6 | 6 | 0 | 88 | 6 | 6 | 0 |
| CIGMON | 71 | 18 | 6 | 6 | 76 | 18 | 0 | 6 |
| ABODALC | 41 | 59 | 0 | 0 | 41 | 53 | 0 | 6 |
| UDPYILL | 47 | 53 | 0 | 0 | 47 | 53 | 0 | 0 |
| AMIYR_U | 53 | 47 | 0 | 0 | 53 | 41 | 0 | 6 |
| AMHTXRC | 71 | 24 | 0 | 6 | 71 | 24 | 0 | 6 |
| AMDEYR2 | 41 | 53 | 0 | 6 | 35 | 47 | 6 | 12 |
| PNRNMMON | 24 | 71 | 6 | 0 | 24 | 71 | 6 | 0 |
| UDPYILAL | 53 | 47 | 0 | 0 | 53 | 41 | 0 | 6 |
| TXYRSPILAL | 12 | 82 | 0 | 6 | 12 | 82 | 0 | 6 |
| YMDEYR2 | 29 | 65 | 0 | 6 | 29 | 71 | 0 | 0 |

## Summary, Limitations, and Conclusions

While a hybrid ABS design may offer cost savings, a hybrid ABS frame will fail to cover some housing units currently found on the field enumerated frame. ${ }^{28}$ The purpose of this analysis was to identify whether this coverage difference would introduce coverage bias. To do so, two subsamples were created from the field enumerated set of respondents. One subsample excluded simplified addresses (addresses without a street number) since these addresses are not found on the ABS frame. In the second subsample, simplified addresses, GQs, and addresses in AIAN tribal areas were excluded. While some differences between the two subsamples were identified, they produced similar results on most variables. Ultimately, (1) some variables were less affected by the undercoverage, (2) some variables were consistently biased but the bias was small, (3) some variables were rarely biased, but the bias was large when observed, and (4) two variables in each subsample were consistently biased and the bias was large.

In addition to reviewing the differences by measures, comparisons were also summarized by domain and by domain size. Similar to the measures, some domains were more likely to experience differences in estimates than others, but no clear pattern emerged. A pattern did emerge when reviewing significant differences by domain size with the proportion of significant differences increasing as domain size increased.

Finally, comparisons were made to determine whether a shift in frame would ultimately change the conclusions drawn from analyses across subdomains and across time. Given the data, the shift in frame will have minimal effect on subdomain comparisons. Unfortunately, trend analysis was not feasible given the data available at the time of this writing.

While these findings provide a "best guess" of the effect of a hybrid ABS design given the data available, the results should be interpreted with caution. Several assumptions and limitations of the data make these results represent a "worst case" scenario. First, the analyses were conducted on two years of data. This increased the sample sizes and reduced the confidence intervals, increasing the likelihood of finding significant differences. By assuming the average sample size found in annual NSDUH datasets and using information found in Table A. 7 (and holding all else equal), the number of significant differences could be reduced by approximately 20 percent. For Subsample 1, the proportion of significant comparisons could reduce from 12 percent to 9 percent, and for Subsample 2, from 9 percent to 7 percent.

Second, all differences between the FE sample and the subsamples were attributed to undercoverage of the ABS frame. However, the FE sample suffers from its own error and undercoverage, such as being unable to enumerate gated communities or controlled-access buildings. To the extent that excluded units are different from included units, FE frames may also suffer from coverage bias.

Third, these analyses are limited to national estimates and do not include state or substate estimates. While official state estimates are model-based, the small area estimation

[^20]methodology used has a design-based component that plays a significant role in the estimation process. For example, states that have a significant proportion of noncity-style addresses (e.g., 39 percent in Alaska and 28 percent in West Virginia as shown in McMichael (2017) and AIAN tribal lands (e.g., Arizona, Oklahoma) may be disproportionally affected by coverage bias from an ABS frame compared with the nation.

Fourth, practical significance, as defined here, is based on the absolute and relative differences between the subsamples and the FE sample. These measures only account for the precision of the subsample estimates indirectly. An alternative analysis strategy would be calculating difference as:

$$
\frac{\left|p_{\text {subset }}-p_{\text {full }}\right|}{s e_{p_{\text {subset }}}}
$$

where a value over a particular threshold (e.g., 0.2 in Cochran, 1977) would correspond to a distortion of the probability of Type I error which would have an impact on the accuracy of outcomes from statistical testing and confidence interval estimation.

Finally, and most importantly, the subsamples used to simulate a hybrid ABS frame are imperfect. Some of the cases dropped from the subsample would have been found on the ABS frame while others that were not dropped from the subsample may have been missing from the ABS frame. Moreover, field enumeration or frame enhancement that would occur in segments that suffer from low coverage was ignored. If the majority of the addresses dropped from our simulation were in low coverage segments, then they would have been included on a hybrid frame because such segments would continue to use field enumeration or frame enhancement methods. The ABS frames would need to be mapped to the 2015 and 2016 NSDUH segments and a coverage threshold set to determine whether these addresses would have fallen in field enumerated segments given a hybrid ABS design. Our analysis also did not account for geocoding error found on the hybrid ABS frame. This error could introduce both over- and undercoverage and introduce additional variability.

Based on these findings and limitations, there are three potential courses of action. First, it should be determined whether the identified biases and the magnitude of some biases is within acceptable limits for the NSDUH. Second, if the identified biases are considered to be within acceptable limits, then estimates may be further revised by mapping the ABS frame onto the NSDUH segments to identify which segments would be field enumerated and which would utilize the ABS frame. Addresses that would fall in field enumerated segments that were dropped in the subset samples could be reincluded, reducing undercoverage and reducing the risk of coverage bias. Even if the identified bias is not within acceptable limits, this step would be worthwhile because the above analyses are likely an overestimate of the change. Third, after the second step, a field test should be conducted to further improve the accuracy of the information on the coverage bias. Unlike the analyses conducted in this report, a field test would account for geocoding error, listing error, and provide actual counts of addresses that would not be found on a hybrid ABS frame. Field test data may also be used to determine if changes in the frame have an impact on time series analyses.

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## Appendix B: Domain Counts

Table B. 1 Domain Counts

| Domains | FE Sample (2015+2016) Sample Size | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Sample Size | $\begin{gathered} \text { Difference from FE } \\ \text { Sample } \\ \hline \end{gathered}$ | Sample Size | $\begin{gathered} \text { Difference from FE } \\ \text { Sample } \end{gathered}$ |
| Age Group |  |  |  |  |  |
| ${ }_{12+}$ | 136,015 | 128,944 | 7,071 | 125,179 | 10,836 |
| 12-17 | 33,992 | 32,099 | 1,893 | 31,423 | 2,569 |
| 18+ | 102,023 | 96,845 | 5,178 | 93,756 | 8,267 |
| 18-25 | 33,532 | 31,907 | 1,625 | 30,136 | 3,396 |
| 26-49 | 47,850 | 45,356 | 2,494 | 44,447 | 3,403 |
| 50+ | 20,641 | 19,582 | 1,059 | 19,173 | 1,468 |
| Gender |  |  |  |  |  |
| Male | 64,851 | 61,389 | 3,462 | 59,555 | 5,296 |
|  | 71,164 | 67,555 | 3,609 | 65,624 | 5,540 |
| Hispanicity |  |  |  |  |  |
| Hispanic/Latino | 24,741 | 23,986 | 755 | 23,575 | 1,166 |
| Not Hispanic/Latino | 111,274 | 104,958 | 6,316 | 101,604 | 9,670 |
| Race |  |  |  |  |  |
| White Only | 98,224 | 92,907 | 5,317 | 90,527 | 7,697 |
| Black Only | 18,375 | 17,728 | 647 | 17,359 | 1,016 |
| NHOPI Only | 1,259 | 1,219 | 40 | 1,186 | 73 |
| Asian Only | 5,991 | 5,888 | 103 | 5,764 | 227 |
| AIAN Only | 5,898 | 5,287 | 611 | 4,731 | 1,167 |
| 2 or More Races | 6,268 | 5,915 | 353 | 5,612 | 656 |
| Division |  |  |  |  |  |
| New England | 11,511 | 10,992 | 519 | 10,776 | 735 |
| Middle Atlantic | 14,226 | 13,796 | 430 | 13,686 | 540 |
| East North Central | 18,383 | 17,794 | 589 | 17,736 | 647 |
| West North Central | 13,530 | 12,597 | 933 | 12,144 | 1,386 |
| South Atlantic | 25,496 | 24,002 | 1,494 | 23,576 | 1,920 |
| East South Central | 7,679 | 6,960 | 719 | 6,786 | 893 |
| West South Central | 12,426 | 11,509 | 917 | 10,267 | 2,159 |
| Mountain | 15,665 | 14,830 | 835 | 14,248 | 1,417 |
| Pacific | 17,099 | 16,464 | 635 | 15,960 | 1,139 |

(continued)

Table B. 1 Domain Counts (continued)

| Domains | FE Sample (2015+2016) <br> Sample Size | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Sample Size | Difference from FE Sample | Sample Size | $\begin{gathered} \hline \text { Difference from FE } \\ \text { Sample } \\ \hline \end{gathered}$ |
| County Type |  |  |  |  |  |
| Large Metro | 61,764 | 60,712 | 1,052 | 60,149 | 1,615 |
| Small Metro, pop 250,000-1,000,000 | 31,094 | 29,845 | 1,249 | 28,701 | 2,393 |
| Small Metro, <250,000 population | 16,824 | 15,737 | 1,087 | 15,239 | 1,585 |
| Nonmetro, 20,000 or more urban pop | 10,900 | 9,945 | 955 | 9,441 | 1,459 |
| Nonmetro, 2,500-19,999 urban pop | 12,290 | 10,452 | 1,838 | 9,556 | 2,734 |
| Nonmetro, <2,500 urban pop | 3,143 | 2,253 | 890 | 2,093 | 1,050 |
| College Enrollment |  |  |  |  |  |
| Persons Aged 18-22 ${ }^{1}$ | 20,194 | 19,214 | 980 | 17,711 | 2,483 |
| Full-Time College Students | 7,341 | 7,086 | 255 | 6,005 | 1,336 |
| Other Persons Aged 18-22 ${ }^{2}$ | 12,853 | 12,128 | 725 | 11,706 | 1,147 |
| Pregnancy |  |  |  |  |  |
| Female Aged 15-44 ${ }^{3}$ | 46,671 | 44,326 | 2,345 | 42,886 | 3,785 |
| Pregnant Female Aged 15-44 | 1,754 | 1,666 | 88 | 1,629 | 125 |
| Not Pregnant Female Aged 15-44 | 44,917 | 42,660 | 2,257 | 41,257 | 3,660 |
| Division by Age Group |  |  |  |  |  |
| New England |  |  |  |  |  |
| 12+ | 11,511 | 10,992 | 519 | 10,776 | 735 |
| 12-17 | 2,842 | 2,711 | 131 | 2,704 | 138 |
| $18+$ | 8,669 | 8,281 | 388 | 8,072 | 597 |
| 18-25 | 2,679 | 2,556 | 123 | 2,362 | 317 |
| 26-49 | 4,162 | 3,978 | 184 | 3,965 | 197 |
| 50+ | 1,828 | 1,747 | 81 | 1,745 | 83 |
| Middle Atlantic |  |  |  |  |  |
| 12+ | 14,226 | 13,796 | 430 | 13,686 | 540 |
| 12-17 | 3,566 | 3,469 | 97 | 3,465 | 101 |
| $18+$ | 10,660 | 10,327 | 333 | 10,221 | 439 |
| 18-25 | 3,571 | 3,462 | 109 | 3,373 | 198 |
| 26-49 | 4,913 | 4,745 | 168 | 4,728 | 185 |
| 50+ | 2,176 | 2,120 | 56 | 2,120 | 56 |
| East North Central |  |  |  |  |  |
| 12+ | 18,383 | 17,794 | 589 | 17,736 | 647 |
| 12-17 | 4,625 | 4,492 | 133 | 4,484 | 141 |
| 18+ | 13,758 | 13,302 | 456 | 13,252 | 506 |
| 18-25 | 4,592 | 4,448 | 144 | 4,414 | 178 |
| 26-49 | 6,374 | 6,144 | 230 | 6,140 | 234 |
| 50+ | 2,792 | 2,710 | 82 | 2,698 | 94 |

(continued)

Table B. 1 Domain Counts (continued)

| Domains | FE Sample (2015+2016) Sample Size | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Sample Size | Difference from FE Sample | Sample Size | $\begin{gathered} \text { Difference from FE } \\ \text { Sample } \\ \hline \end{gathered}$ |
| West North Central |  |  |  |  |  |
| 12+ | 13,530 | 12,597 | 933 | 12,144 | 1,386 |
| 12-17 | 3,430 | 3,153 | 277 | 3,104 | 326 |
| 18+ | 10,100 | 9,444 | 656 | 9,040 | 1,060 |
| 18-25 | 3,338 | 3,156 | 182 | 2,807 | 531 |
| 26-49 | 4,781 | 4,465 | 316 | 4,423 | 358 |
| 50+ | 1,981 | 1,823 | 158 | 1,810 | 171 |
| South Atlantic |  |  |  |  |  |
| 12+ | 25,496 | 24,002 | 1,494 | 23,576 | 1,920 |
| 12-17 | 6,382 | 5,973 | 409 | 5,907 | 475 |
| 18+ | 19,114 | 18,029 | 1,085 | 17,669 | 1,445 |
| 18-25 | 6,185 | 5,830 | 355 | 5,608 | 577 |
| 26-49 | 9,042 | 8,522 | 520 | 8,430 | 612 |
| 50+ | 3,887 | 3,677 | 210 | 3,631 | 256 |
| East South Central |  |  |  |  |  |
| 12+ | 7,679 | 6,960 | 719 | 6,786 | 893 |
| 12-17 | 1,871 | 1,699 | 172 | 1,670 | 201 |
| 18+ | 5,808 | 5,261 | 547 | 5,116 | 692 |
| 18-25 | 1,940 | 1,767 | 173 | 1,681 | 259 |
| 26-49 | 2,698 | 2,427 | 271 | 2,385 | 313 |
| 50+ | 1,170 | 1,067 | 103 | 1,050 | 120 |
| West South Central |  |  |  |  |  |
| $12+$ | 12,426 | 11,509 | 917 | 10,267 | 2,159 |
| 12-17 | 3,105 | 2,816 | 289 | 2,519 | 586 |
| 18+ | 9,321 | 8,693 | 628 | 7,748 | 1,573 |
| 18-25 | 3,094 | 2,902 | 192 | 2,549 | 545 |
| 26-49 | 4,379 | 4,085 | 294 | 3,681 | 698 |
| 50+ | 1,848 | 1,706 | 142 | 1,518 | 330 |
| Mountain |  |  |  |  |  |
| 12+ | 15,665 | 14,830 | 835 | 14,248 | 1,417 |
| 12-17 | 3,941 | 3,714 | 227 | 3,597 | 344 |
| 18+ | 11,724 | 11,116 | 608 | 10,651 | 1,073 |
| 18-25 | 3,867 | 3,673 | 194 | 3,406 | 461 |
| 26-49 | 5,526 | 5,234 | 292 | 5,093 | 433 |
| 50+ | 2,331 | 2,209 | 122 | 2,152 | 179 |

Table B. 1 Domain Counts (continued)

| Domains | FE Sample (2015+2016) <br> Sample Size | Subsample 1. Sample Excluding Description- |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Sample Size | Difference from FE Sample | Sample Size | $\begin{gathered} \hline \text { Difference from FE } \\ \text { Sample } \end{gathered}$ |
| Pacific |  |  |  |  |  |
| 12+ | 17,099 | 16,464 | 635 | 15,960 | 1,139 |
| 12-17 | 4,230 | 4,072 | 158 | 3,973 | 257 |
| 18+ | 12,869 | 12,392 | 477 | 11,987 | 882 |
| 18-25 | 4,266 | 4,113 | 153 | 3,936 | 330 |
| 26-49 | 5,975 | 5,756 | 219 | 5,602 | 373 |
| 50+ | 2,628 | 2,523 | 105 | 2,449 | 179 |
| Division by Hispanicity |  |  |  |  |  |
| New England |  |  |  |  |  |
| Hispanic/Latino | 1,214 | 1,192 | 22 | 1,181 | 33 |
| Not Hispanic/Latino | 10,297 | 9,800 | 497 | 9,595 | 702 |
| Middle Atlantic |  |  |  |  |  |
| Hispanic/Latino | 2,727 | 2,678 | 49 | 2,657 | 70 |
| Not Hispanic/Latino | 11,499 | 11,118 | 381 | 11,029 | 470 |
| East North Central |  |  |  |  |  |
| Hispanic/Latino | 1,922 | 1,873 | 49 | 1,869 | 53 |
| Not Hispanic/Latino | 16,461 | 15,921 | 540 | 15,867 | 594 |
| West North Central |  |  |  |  |  |
| Hispanic/Latino | 1,156 | 1,109 | 47 | 1,089 | 67 |
| Not Hispanic/Latino | 12,374 | 11,488 | 886 | 11,055 | 1,319 |
| South Atlantic |  |  |  |  |  |
| Hispanic/Latino | 4,090 | 3,939 | 151 | 3,900 | 190 |
| Not Hispanic/Latino | 21,406 | 20,063 | 1,343 | 19,676 | 1,730 |
| East South Central |  |  |  |  |  |
| Hispanic/Latino | 373 | 349 | 24 | 342 | 31 |
| Not Hispanic/Latino | 7,306 | 6,611 | 695 | 6,444 | 862 |
| West South Central |  |  |  |  |  |
| Hispanic/Latino | 3,659 | 3,449 | 210 | 3,273 | 386 |
| Not Hispanic/Latino | 8,767 | 8,060 | 707 | 6,994 | 1,773 |
|  |  |  |  |  |  |
| Hispanic/Latino | 3,989 | 3,862 | 127 | 3,784 | 205 |
| Not Hispanic/Latino | 11,676 | 10,968 | 708 | 10,464 | 1,212 |
| Pacific |  |  |  |  |  |
| Hispanic/Latino | 5,611 | 5,535 | 76 | 5,480 | 131 |
| Not Hispanic/Latino | 11,488 | 10,929 | 559 | 10,480 | 1,008 |

Table B. 1 Domain Counts (continued)

| Domains | FE Sample (2015+2016) <br> Sample Size | Subsample 1. Sample Excluding Description- |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Sample Size | $\begin{gathered} \hline \text { Difference from FE } \\ \text { Sample } \\ \hline \end{gathered}$ | Sample Size | $\begin{gathered} \hline \text { Difference from FE } \\ \text { Sample } \\ \hline \end{gathered}$ |
| Division by Race |  |  |  |  |  |
| New England |  |  |  |  |  |
| White Only | 9,654 | 9,177 | 477 | 8,996 | 658 |
| Black Only | 702 | 689 | 13 | 681 | 21 |
| NHOPI Only | 90 | 90 | 0 | 86 | 4 |
| Asian Only | 384 | 379 | 5 | 366 | 18 |
| AIAN Only | 250 | 248 | 2 | 245 | 5 |
| 2 or More Races | 431 | 409 | 22 | 402 | 29 |
| Middle Atlantic |  |  |  |  |  |
| White Only | 9,752 | 9,392 | 360 | 9,321 | 431 |
| Black Only | 2,289 | 2,263 | 26 | 2,241 | 48 |
| NHOPI Only | 164 | 160 | 4 | 160 | 4 |
| Asian Only | 897 | 882 | 15 | 871 | 26 |
| AIAN Only | 589 | 580 | 9 | 579 | 10 |
| 2 or More Races | 535 | 519 | 16 | 514 | 21 |
| East North Central |  |  |  |  |  |
| White Only | 14,244 | 13,754 | 490 | 13,708 | 536 |
| Black Only | 2,433 | 2,365 | 68 | 2,359 | 74 |
| NHOPI Only | 69 | 68 | 1 | 68 | 1 |
| Asian Only | 571 | 564 | 7 | 559 | 12 |
| AIAN Only | 389 | 381 | 8 | 381 | 8 |
| 2 or More Races | 677 | 662 | 15 | 661 | 16 |
| West North Central |  |  |  |  |  |
| White Only | 11,368 | 10,572 | 796 | 10,243 | 1,125 |
| Black Only | 846 | 830 | 16 | 814 | 32 |
| NHOPI Only | 48 | 47 | 1 | 46 | 2 |
| Asian Only | 321 | 316 | 5 | 308 | 13 |
| AIAN Only | 460 | 381 | 79 | 301 | 159 |
| 2 or More Races | 487 | 451 | 36 | 432 | 55 |
| South Atlantic |  |  |  |  |  |
| White Only | 15,915 | 14,823 | 1,092 | 14,608 | 1,307 |
| Black Only | 6,628 | 6,389 | 239 | 6,279 | 349 |
| NHOPI Only | 151 | 150 | 1 | 146 | 5 |
| Asian Only | 880 | 864 | 16 | 845 | 35 |
| AIAN Only | 898 | 819 | 79 | 776 | 122 |
| 2 or More Races | 1,024 | 957 | 67 | 922 | 102 |

Table B. 1 Domain Counts (continued)

| Domains | FE Sample (2015+2016) <br> Sample Size | Subsample 1. Sample Excluding Description- |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Sample Size | $\begin{gathered} \hline \text { Difference from FE } \\ \text { Sample } \end{gathered}$ | Sample Size | $\begin{gathered} \hline \text { Difference from FE } \\ \text { Sample } \\ \hline \end{gathered}$ |
| East South Central |  |  |  |  |  |
| White Only | 5,328 | 4,799 | 529 | 4,744 | 584 |
| Black Only | 1,919 | 1,760 | 159 | 1,681 | 238 |
| NHOPI Only | 18 | 15 | 3 | 13 | 5 |
| Asian Only | 103 | 102 | 1 | 89 | 14 |
| AIAN Only | 98 | 86 | 12 | 63 | 35 |
| 2 or More Races | 213 | 198 | 15 | 196 | 17 |
| West South Central |  |  |  |  |  |
| White Only | 8,771 | 8,106 | 665 | 7,243 | 1,528 |
| Black Only | 2,080 | 1,974 | 106 | 1,872 | 208 |
| NHOPI Only | 54 | 52 | 2 | 51 | 3 |
| Asian Only | 353 | 347 | 6 | 328 | 25 |
| AIAN Only | 572 | 518 | 54 | 401 | 171 |
| 2 or More Races | 596 | 512 | 84 | 372 | 224 |
| Mountain |  |  |  |  |  |
| White Only | 12,649 | 12,074 | 575 | 11,776 | 873 |
| Black Only | 608 | 601 | 7 | 581 | 27 |
| NHOPI Only | 154 | 151 | 3 | 144 | 10 |
| Asian Only | 344 | 341 | 3 | 336 | 8 |
| AIAN Only | 1,225 | 1,006 | 219 | 792 | 433 |
| 2 or More Races | 685 | 657 | 28 | 619 | 66 |
| Pacific |  |  |  |  |  |
| White Only | 10,543 | 10,210 | 333 | 9,888 | 655 |
| Black Only | 870 | 857 | 13 | 851 | 19 |
| NHOPI Only | 511 | 486 | 25 | 472 | 39 |
| Asian Only | 2,138 | 2,093 | 45 | 2,062 | 76 |
| AIAN Only | 1,417 | 1,268 | 149 | 1,193 | 224 |
| 2 or More Races | 1,620 | 1,550 | 70 | 1,494 | 126 |
| County Type by Age Group |  |  |  |  |  |
| Large Metro |  |  |  |  |  |
| 12+ | 61,764 | 60,712 | 1,052 | 60,149 | 1,615 |
| 12-17 | 15,496 | 15,225 | 271 | 15,165 | 331 |
| 18+ | 46,268 | 45,487 | 781 | 44,984 | 1,284 |
| 18-25 | 14,898 | 14,651 | 247 | 14,268 | 630 |
| 26-49 | 22,642 | 22,253 | 389 | 22,165 | 477 |
| 50+ | 8,728 | 8,583 | 145 | 8,551 | 177 |

Table B. 1 Domain Counts (continued)

| Domains | FE Sample (2015+2016) <br> Sample Size | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Sample Size | Difference from FE Sample | Sample Size | $\begin{gathered} \hline \text { Difference from FE } \\ \text { Sample } \\ \hline \end{gathered}$ |
| Small Metro, population $250,000-1,000,000$$12+$$12-17$$18+$$18-25$$26-49$$50+$Small Metro, < 250,000 population$12+$$12-17$$18+$$18-25$$26-49$$50+$Nonmetro, 20,000 or more urban population$12+$$12-17$$18+$$18-25$$26-49$$50+$Nonmetro, $2,500-19,999$ urban population$12+$$12-17$$18+$$18-25$$26-49$$50+$Nonmetro, <2,500 urban pop$12+$$12-17$$18+$$18-25$$26-49$$50+$County Type by HispanicityLarge MetroHispanic/LatinoNot Hispanic/Latino |  |  |  |  |  |
|  | 31,094 | 29,845 | 1,249 | 28,701 | 2,393 |
|  | 7,803 | 7,446 | 357 | 7,218 | 585 |
|  | 23,291 | 22,399 | 892 | 21,483 | 1,808 |
|  | 7,986 | 7,676 | 310 | 7,213 | 773 |
|  | 10,715 | 10,286 | 429 | 9,978 | 737 |
|  | 4,590 | 4,437 | 153 | 4,292 | 298 |
|  |  |  |  |  |  |
|  | 16,824 | 15,737 | 1,087 | 15,239 | 1,585 |
|  | 4,040 | 3,777 | 263 | 3,709 | 331 |
|  | 12,784 | 11,960 | 824 | 11,530 | 1,254 |
|  | 4,503 | 4,229 | 274 | 3,938 | 565 |
|  | 5,687 | 5,294 | 393 | 5,195 | 492 |
|  | 2,594 | 2,437 | 157 | 2,397 | 197 |
|  |  |  |  |  |  |
|  | 10,900 | 9,945 | 955 | 9,441 | 1,459 |
|  | 2,681 | 2,427 | 254 | 2,351 | 330 |
|  | 8,219 | 7,518 | 701 | 7,090 | 1,129 |
|  | 2,839 | 2,608 | 231 | 2,347 | 492 |
|  | 3,628 | 3,295 | 333 | 3,180 | 448 |
|  | 1,752 | 1,615 | 137 | 1,563 | 189 |
|  |  |  |  |  |  |
|  | 12,290 | 10,452 | 1,838 | 9,556 | 2,734 |
|  | 3,129 | 2,619 | 510 | 2,413 | 716 |
|  | 9,161 | 7,833 | 1,328 | 7,143 | 2,018 |
|  | 2,683 | 2,315 | 368 | 1,994 | 689 |
|  | 4,120 | 3,468 | 652 | 3,225 | 895 |
|  | 2,358 | 2,050 | 308 | 1,924 | 434 |
|  |  |  |  |  |  |
|  |  | 2,253 | 890 | 2,093 |  |
|  | 843 | 605 | 238 | 2,567 | 276 |
|  | 2,300 | 1,648 | 652 | 1,526 | 774 |
|  | 623 | 428 | 195 | 376 | 247 |
|  | 1,058 | 760 | 298 | 704 | 354 |
|  | 619 | 460 | 159 | 446 | 173 |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  | 14,878 | 14,653 | 225 | 14,567 | 311 |
|  | 46,886 | 46,059 | 827 | 45,582 | 1,304 |

Table B. 1 Domain Counts (continued)

| Domains | FE Sample (2015+2016) Sample Size | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Sample Size | Difference from FE Sample | Sample Size | Difference from FE Sample |
| Small Metro, population 250,000-1,000,000 |  |  |  |  |  |
| Hispanic/Latino | 5,731 | 5,525 | 206 | 5,365 | 366 |
| Not Hispanic/Latino | 25,363 | 24,320 | 1,043 | 23,336 | 2,027 |
| Small Metro, < 250,000 population |  |  |  |  |  |
| Hispanic/Latino | 1,949 | 1,872 | 77 | 1,810 | 139 |
| Not Hispanic/Latino | 14,875 | 13,865 | 1,010 | 13,429 | 1,446 |
| Nonmetro, 20,000 or more urban population |  |  |  |  |  |
| Hispanic/Latino | 1,168 | 1,080 | 88 | 1,051 | 117 |
| Not Hispanic/Latino | 9,732 | 8,865 | 867 | 8,390 | 1,342 |
| Nonmetro, 2,500-19,999 urban population |  |  |  |  |  |
| Hispanic/Latino | 858 | 728 | 130 | 669 | 189 |
| Not Hispanic/Latino | 11,432 | 9,724 | 1,708 | 8,887 | 2,545 |
| Nonmetro, $<2,500$ urban population |  |  |  |  |  |
| Hispanic/Latino | 157 | 128 | 29 | 113 | 44 |
| Not Hispanic/Latino | 2,986 | 2,125 | 861 | 1,980 | 1,006 |
| County Type by Race |  |  |  |  |  |
| Large Metro |  |  |  |  |  |
| White Only | 40,307 | 39,576 | 731 | 39,194 | 1,113 |
| Black Only | 11,346 | 11,149 | 197 | 11,082 | 264 |
| NHOPI Only | 626 | 619 | 7 | 614 | 12 |
| Asian Only | 3,925 | 3,899 | 26 | 3,850 | 75 |
| AIAN Only | 2,950 | 2,904 | 46 | 2,878 | 72 |
| 2 or More Races | 2,610 | 2,565 | 45 | 2,531 | 79 |
| Small Metro, population 250,000-1,000,000 |  |  |  |  |  |
| White Only | 22,884 | 21,918 | 966 | 21,110 | 1,774 |
| Black Only | 3,613 | 3,472 | 141 | 3,359 | 254 |
| NHOPI Only | 369 | 364 | 5 | 353 | 16 |
| Asian Only | 1,340 | 1,323 | 17 | 1,287 | 53 |
| AIAN Only | 1,070 | 1,007 | 63 | 947 | 123 |
| 2 or More Races | 1,818 | 1,761 | 57 | 1,645 | 173 |
| Small Metro, <250,000 population |  |  |  |  |  |
| White Only | 13,583 | 12,683 | 900 | 12,364 | 1,219 |
| Black Only | 1,499 | 1,409 | 90 | 1,310 | 189 |
| NHOPI Only | 100 | 94 | 6 | 93 | 7 |
| Asian Only | 370 | 349 | 21 | 339 | 31 |
| AIAN Only | 521 | 495 | 26 | 449 | 72 |
| 2 or More Races | 751 | 707 | 44 | 684 | 67 |

(continued)

Table B. 1 Domain Counts (continued)

| Domains | FE Sample (2015+2016) <br> Sample Size | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Sample Size | $\begin{gathered} \text { Difference from FE } \\ \text { Sample } \\ \hline \end{gathered}$ | Sample Size | $\begin{gathered} \text { Difference from FE } \\ \text { Sample } \\ \hline \end{gathered}$ |
| Nonmetro, 20,000 or more urban population <br> White Only <br> Black Only <br> NHOPI Only <br> Asian Only <br> AIAN Only <br> 2 or More Races <br> Nonmetro, 2,500-19,999 urban pop <br> White Only <br> Black Only <br> NHOPI Only <br> Asian Only <br> AIAN Only <br> 2 or More Races <br> Nonmetro, <2,500 urban pop <br> White Only <br> Black Only <br> NHOPI Only <br> Asian Only <br> AIAN Only <br> 2 or More Races <br> College Enrollment by Gender <br> Persons Aged 18 to $22^{1}$ <br> Male <br> Female <br> Full-Time College Students <br> Male <br> Female <br> Other Persons Aged 18 to $22^{2}$ <br> Male <br> Female <br> Age Group by Gender <br> $12+$ <br> Male <br> Female <br> $12-17$ <br> Male <br> Female |  |  |  |  |  |
|  | 8,768 | 8,027 | 741 | 7,726 | 1,042 |
|  | 826 | 778 | 48 | 736 | 90 |
|  | 125 | 111 | 14 | 101 | 24 |
|  | 252 | 226 | 26 | 220 | 32 |
|  | 410 | 341 | 69 | 238 | 172 |
|  | 519 | 462 | 57 | 420 | 99 |
|  |  |  |  |  |  |
|  | 10,127 | 8,770 | 1,357 | 8,271 | 1,856 |
|  | 937 | 814 | 123 | 766 | 171 |
|  | 36 | 30 | 6 | 24 | 12 |
|  | 89 | 81 | 8 | 58 | 31 |
|  | 642 | 413 | 229 | 173 | 469 |
|  | 459 | 344 | 115 | 264 | 195 |
|  |  |  |  |  |  |
|  | 2,555 | 1,933 | 622 | 1,862 | 693 |
|  | 154 | 106 | 48 | 106 | 48 |
|  | 3 | 1 | 2 | 1 | 2 |
|  | 15 | 10 | 5 | 10 | 5 |
|  | 305 | 127 | 178 | 46 | 259 |
|  | 111 | 76 | 35 | 68 | 43 |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  | 9,994 | 9,487 | 507 | 8,770 | 1,224 |
|  | 10,200 | 9,727 | 473 | 8,941 | 1,259 |
|  |  |  |  |  |  |
|  | 3,267 | 3,166 | 101 | 2,669 | 598 |
|  | 4,074 | 3,920 | 154 | 3,336 | 738 |
|  |  |  |  |  |  |
|  | 6,727 | 6,321 | 406 | 6,101 | 626 |
|  | 6,126 | 5,807 | 319 | 5,605 | 521 |
|  |  |  |  |  |  |
|  | 64,851 | 61,389 | 3,462 | 59,555 | 5,296 |
|  | 71,164 | 67,555 | 3,609 | 65,624 | 5,540 |
|  |  |  |  |  |  |
|  | 17,296 | 16,338 | 958 | 15,974 | 1,322 |
|  | 16,696 | 15,761 | 935 | 15,449 | 1,247 |

Table B. 1 Domain Counts (continued)

| Domains | FE Sample (2015+2016) <br> Sample Size | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Sample Size | Difference from FE Sample | Sample Size | Difference from FE Sample |
| 18+ |  |  |  |  |  |
| Male | 47,555 | 45,051 | 2,504 | 43,581 | 3,974 |
| Female | 54,468 | 51,794 | 2,674 | 50,175 | 4,293 |
|  |  |  |  |  |  |
| Male | 16,237 | 15,416 | 821 | 14,566 | 1,671 |
| Female | 17,295 | 16,491 | 804 | 15,570 | 1,725 |
| 26-49 |  |  |  |  |  |
| Male | 21,863 | 20,690 | 1,173 | 20,249 | 1,614 |
| Female | 25,987 | 24,666 | 1,321 | 24,198 | 1,789 |
| 50+ |  |  |  |  |  |
| Male | 9,455 | 8,945 | 510 | 8,766 | 689 |
| Female | 11,186 | 10,637 | 549 | 10,407 | 779 |
| Age Group by Race |  |  |  |  |  |
| 12+ |  |  |  |  |  |
| White Only | 98,224 | 92,907 | 5,317 | 90,527 | 7,697 |
| Black Only | 18,375 | 17,728 | 647 | 17,359 | 1,016 |
| NHOPI Only | 1,259 | 1,219 | 40 | 1,186 | 73 |
| Asian Only | 5,991 | 5,888 | 103 | 5,764 | 227 |
| AIAN Only | 5,898 | 5,287 | 611 | 4,731 | 1,167 |
| 2 or More Races | 6,268 | 5,915 | 353 | 5,612 | 656 |
| 12-17 |  |  |  |  |  |
| White Only | 23,162 | 21,808 | 1,354 | 21,460 | 1,702 |
| Black Only | 5,079 | 4,887 | 192 | 4,835 | 244 |
| NHOPI Only | 367 | 354 | 13 | 348 | 19 |
| Asian Only | 1,301 | 1,276 | 25 | 1,262 | 39 |
| AIAN Only | 1,777 | 1,606 | 171 | 1,447 | 330 |
| 2 or More Races | 2,306 | 2,168 | 138 | 2,071 | 235 |
| 18+ |  |  |  |  |  |
| White Only | 75,062 | 71,099 | 3,963 | 69,067 | 5,995 |
| Black Only | 13,296 | 12,841 | 455 | 12,524 | 772 |
| NHOPI Only | 892 | 865 | 27 | 838 | 54 |
| Asian Only | 4,690 | 4,612 | 78 | 4,502 | 188 |
| AIAN Only | 4,121 | 3,681 | 440 | 3,284 | 837 |
| 2 or More Races | 3,962 | 3,747 | 215 | 3,541 | 421 |

Table B. 1 Domain Counts (continued)

| Domains | FE Sample (2015+2016) <br> Sample Size | Subsample 1. Sample Excluding Description- |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Sample Size | $\begin{gathered} \hline \text { Difference from FE } \\ \text { Sample } \\ \hline \end{gathered}$ | Sample Size | $\begin{gathered} \hline \text { Difference from FE } \\ \text { Sample } \\ \hline \end{gathered}$ |
| 18-25 |  |  |  |  |  |
| White Only | 23,248 | 22,054 | 1,194 | 20,813 | 2,435 |
| Black Only | 4,921 | 4,760 | 161 | 4,594 | 327 |
| NHOPI Only | 417 | 405 | 12 | 387 | 30 |
| Asian Only | 1,602 | 1,577 | 25 | 1,487 | 115 |
| AIAN Only | 1,598 | 1,454 | 144 | 1,306 | 292 |
| 2 or More Races | 1,746 | 1,657 | 89 | 1,549 | 197 |
| 26-49 |  |  |  |  |  |
| White Only | 35,070 | 33,137 | 1,933 | 32,630 | 2,440 |
| Black Only | 6,149 | 5,944 | 205 | 5,834 | 315 |
| NHOPI Only | 378 | 367 | 11 | 360 | 18 |
| Asian Only | 2,491 | 2,449 | 42 | 2,432 | 59 |
| AIAN Only | 2,025 | 1,804 | 221 | 1,613 | 412 |
| 2 or More Races | 1,737 | 1,655 | 82 | 1,578 | 159 |
|  |  |  |  |  |  |
| White Only | 16,744 | 15,908 | 836 | 15,624 | 1,120 |
| Black Only | 2,226 | 2,137 | 89 | 2,096 | 130 |
| NHOPI Only | 97 | 93 | 4 | 91 | 6 |
| Asian Only | 597 | 586 | 11 | 583 | 14 |
| AIAN Only | 498 | 423 | 75 | 365 | 133 |
| 2 or More Races | 479 | 435 | 44 | 414 | 65 |
| Age Group by Hispanicity |  |  |  |  |  |
| 12+ |  |  |  |  |  |
| Hispanic/Latino | 24,741 | 23,986 | 755 | 23,575 | 1,166 |
| Not Hispanic/Latino | 111,274 | 104,958 | 6,316 | 101,604 | 9,670 |
|  |  |  |  |  |  |
| Hispanic/Latino | 7,712 | 7,452 | 260 | 7,342 | 370 |
| Not Hispanic/Latino | 26,280 | 24,647 | 1,633 | 24,081 | 2,199 |
| 18+ |  |  |  |  |  |
| Hispanic/Latino | 17,029 | 16,534 | 495 | 16,233 | 796 |
| Not Hispanic/Latino | 84,994 | 80,311 | 4,683 | 77,523 | 7,471 |
| 18-25 |  |  |  |  |  |
| Hispanic/Latino | 6,789 | 6,606 | 183 | 6,429 | 360 |
| Not Hispanic/Latino | 26,743 | 25,301 | 1,442 | 23,707 | 3,036 |
| 26-49 ${ }^{\text {26 }}$ |  |  |  |  |  |
| Hispanic/Latino | 8,356 | 8,094 | 262 | 7,988 | 368 |
| Not Hispanic/Latino | 39,494 | 37,262 | 2,232 | 36,459 | 3,035 |

Table B. 1 Domain Counts (continued)

| Domains | FE Sample $(\mathbf{2 0 1 5 + 2 0 1 6}$ <br> (2015+2016) <br> Sample Size | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Sample Size | Difference from FE Sample | Sample Size | Difference from FE Sample |
| 50+ |  |  |  |  |  |
| Hispanic/Latino | 1,884 | 1,834 | 50 | 1,816 | 68 |
| Not Hispanic/Latino | 18,757 | 17,748 | 1,009 | 17,357 | 1,400 |
| Pregnancy by Age Group |  |  |  |  |  |
| Female Aged 15-44 ${ }^{3}$ |  |  |  |  |  |
| 15-17 | 8,409 | 7,925 | 484 | 7,782 | 627 |
| 18-25 | 17,219 | 16,419 | 800 | 15,501 | 1,718 |
| 26-44 | 21,043 | 19,982 | 1,061 | 19,603 | 1,440 |
| Pregnant Female Aged 15-44 |  |  |  |  |  |
| 15-17 | 57 | 56 | 1 | 56 | 1 |
| 18-25 | 823 | 777 | 46 | 754 | 69 |
| 26-44 | 874 | 833 | 41 | 819 | 55 |
| Not Pregnant Female Aged 15-44 |  |  |  |  |  |
| 15-17 | 8,352 | 7,869 | 483 | 7,726 | 626 |
| 18-25 | 16,396 | 15,642 | 754 | 14,747 | 1,649 |
| 26-44 | 20,169 | 19,149 | 1,020 | 18,784 | 1,385 |
| Pregnancy by Race |  |  |  |  |  |
| Female Aged 15-44 ${ }^{3}$ |  |  |  |  |  |
| White Only | 32,851 | 31,070 | 1,781 | 30,149 | 2,702 |
| Black Only | 6,840 | 6,616 | 224 | 6,462 | 378 |
| NHOPI Only | 453 | 439 | 14 | 422 | 31 |
| Asian Only | 2,276 | 2,235 | 41 | 2,177 | 99 |
| AIAN Only | 1,942 | 1,770 | 172 | 1,600 | 342 |
| 2 or More Races | 2,309 | 2,196 | 113 | 2,076 | 233 |
| Pregnant Female Aged 15-44 |  |  |  |  |  |
| White Only | 1,190 | 1,120 | 70 | 1,107 | 83 |
| Black Only | 295 | 289 | 6 | 279 | 16 |
| NHOPI Only | 19 | 19 | 0 | 17 | 2 |
| Asian Only | 77 | 75 | 2 | 75 | 2 |
| AIAN Only | 85 | 78 | 7 | 71 | 14 |
| 2 or More Races | 88 | 85 | 3 | 80 | 8 |
| Not Pregnant Female Aged 15-44 |  |  |  |  |  |
| White Only | 31,661 | 29,950 | 1,711 | 29,042 | 2,619 |
| Black Only | 6,545 | 6,327 | 218 | 6,183 | 362 |
| NHOPI Only | 434 | 420 | 14 | 405 | 29 |
| Asian Only | 2,199 | 2,160 | 39 | 2,102 | 97 |
| AIAN Only | 1,857 | 1,692 | 165 | 1,529 | 328 |
| 2 or More Races | 2,221 | 2,111 | 110 | 1,996 | 225 |

Table B. 1 Domain Counts (continued)

| Domains | FE Sample (2015+2016) <br> Sample Size | Subsample 1. Sample Excluding Description-Based Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Sample Size | $\begin{gathered} \text { Difference from FE } \\ \text { Sample } \\ \hline \end{gathered}$ | Sample Size | $\begin{gathered} \hline \text { Difference from FE } \\ \text { Sample } \\ \hline \end{gathered}$ |
|  |  |  |  |  |  |
| Female Aged 15-443 |  |  |  |  |  |
| Hispanic/Latino | 9,194 | 8,935 | 259 | 8,766 | 428 |
| Not Hispanic/Latino | 37,477 | 35,391 | 2,086 | 34,120 | 3,357 |
| Pregnant Female Aged 15-44 |  |  |  |  |  |
| Hispanic/Latino | 364 | 358 | 6 | 356 | 8 |
| Not Hispanic/Latino | 1,390 | 1,308 | 82 | 1,273 | 117 |
| Not Pregnant Female Aged 15-44 |  |  |  |  |  |
| Hispanic/Latino | 8,830 | 8,577 | 253 | 8,410 | 420 |
| Not Hispanic/Latino | 36,087 | 34,083 | 2,004 | 32,847 | 3,240 |

AIAN = American Indian or Alaska Native; $\mathrm{FE}=$ field enumeration; $\mathrm{GQ}=$ group quarters; NHOPI $=$ Native Hawaiian or Other Pacific Islander.
${ }^{1}$ Excludes those with unknown enrollment status.
${ }^{2}$ Other Persons include respondents aged 18 to 22 not enrolled in school, enrolled in college part time, enrolled in other grades either full or part time, or enrolled with no other information available.

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## Appendix C: 2015-2016 NSDUH - Weighted Annual Averages Past Month Binge Alcohol Use - BNGDRKMON

Table C. 1 Past Month Binge Alcohol Use

| Domains | FE Sample (2015+2016) |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in 1,000s) | Percent |
| Age Group |  |  |  |  |  |  |  |  |  |  |
| 12+ | 66,008 | 24.6 | 66,015 | 24.6 | 66,113 | 24.6 | 66,690 | 24.9 | 65,327 | 24.2 |
| 12-17 | 1,328 | 5.3 | 1,329 | 5.3 | 1,320 | 5.3 | 1,441 | 5.8 | 1,214 | 4.9 a |
| 18+ | 64,681 | 26.5 | 64,686 | 26.5 | 64,793 | 26.6 | 65,249 | 26.9 | 64,113 | 26.2 |
| 18-25 | 13,442 | 38.7 | 13,490 | 38.8 a | 13,513 | 38.9 | 13,626 | 39.0 | 13,258 | 38.4 |
| 26-49 | 32,173 | 32.5 | 32,222 | 32.6 | 32,297 | 32.7 | 32,312 | 32.8 | 32,035 | 32.3 |
| 50+ | 19,065 | 17.3 | 18,975 | 17.2 | 18,983 | 17.3 | 19,311 | 17.7 | 18,820 | 17.0 |
| Gender |  |  |  |  |  |  |  |  |  |  |
| Male | 38,070 | 29.2 | 38,103 | 29.3 | 38,207 | 29.4 | 38,351 | 29.6 | 37,789 | 28.9 |
| Female | 27,938 | 20.2 | 27,912 | 20.2 | 27,906 | 20.2 | 28,339 | 20.5 | 27,538 | 19.8 |
| Hispanicity |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 11,100 | 25.3 | 11,090 | 25.2 | 11,085 | 25.2 | 11,178 | 25.7 | 11,022 | 24.9 |
| Not Hispanic/Latino | 54,908 | 24.4 | 54,925 | 24.5 | 55,029 | 24.5 | 55,512 | 24.8 | 54,304 | 24.1 |
| Race |  |  |  |  |  |  |  |  |  |  |
| White Only | 53,771 | 25.7 | 53,860 | 25.7 | 53,899 | 25.7 | 54,358 | 26.0 | 53,184 | 25.3 |
| Black Only | 7,917 | 23.2 | 7,905 | 23.2 | 7,938 | 23.3 | 7,951 | 23.4 | 7,883 | 23.0 |
| NHOPI Only | 253 | 19.2 | 247 | 18.7 | 237 | 18.2 | 229 | 21.0 | 276 | 18.0 |
| Asian Only | 2,002 | 13.5 | 1,982 | 13.4 | 2,000 | 13.5 | 2,105 | 14.2 | 1,900 | 12.9 |
| AIAN Only | 775 | 24.4 | 769 | 24.2 | 794 | 25.0 | 777 | 24.6 | 773 | 24.1 |
| 2 or More Races | 1,290 | 23.2 | 1,253 | 22.6 | 1,245 | 22.4 | 1,270 | 23.3 | 1,310 | 23.2 |
| Division |  |  |  |  |  |  |  |  |  |  |
| New England |  | 28.0 | 3,522 | 27.9 | 3,523 | 27.9 | 3,304 | 26.2 | 3,764 | 29.7 a |
| Middle Atlantic | 9,057 | 25.8 | 9,067 | 25.8 | 9,069 | 25.8 | 9,150 | 26.0 | 8,963 | 25.5 |
| East North Central | 10,296 | 26.3 | 10,362 | 26.4 a | 10,365 | 26.4 | 10,271 | 26.2 | 10,321 | 26.3 |
| West North Central | 4,840 | 27.7 | 4,811 | 27.5 | 4,833 | 27.6 | 4,778 | 27.4 | 4,902 | 28.0 |
| South Atlantic | 12,688 | 23.9 | 12,673 | 23.8 | 12,645 | 23.8 | 12,863 | 24.3 | 12,513 | 23.4 |
| East South Central | 3,173 | 20.2 | 3,228 | 20.5 | 3,255 | 20.7 a | 3,185 | 20.3 | 3,161 | 20.1 |
| West South Central | 7,405 | 23.3 | 7,368 | 23.2 | 7,410 | 23.3 | 7,544 | 23.9 | 7,265 | 22.7 |
| Mountain | 4,535 | 23.3 | 4,553 | 23.3 | 4,577 | 23.5 | 4,616 | 23.9 | 4,454 | 22.7 |
| Pacific | 10,481 | 23.9 | 10,432 | 23.8 | 10,435 | 23.8 | 10,979 | 25.1 | 9,984 | 22.7 a |

Table C. 1 Past Month Binge Alcohol Use (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (2015+2016) \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in $\mathbf{1 , 0 0 0}$ s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in 1,000s) | Percent |
| County Type |  |  |  |  |  |  |  |  |  |  |
| Large Metro | 38,073 | 25.4 | 38,625 | 25.4 | 39,112 | 25.4 | 38,547 | 25.8 | 37,600 | 25.0 |
| Small Metro, pop 250,000-1,000,000 | 13,177 | 23.7 | 13,281 | 23.7 | 13,097 | 23.8 | 13,564 | 24.2 | 12,789 | 23.1 |
| Small Metro, <250,000 population | 6,328 | 24.8 | 6,256 | 24.7 | 6,226 | 24.7 | 6,316 | 24.7 | 6,341 | 24.8 |
| Nonmetro, 20,000 or more urban pop | 3,593 | 23.6 | 3,540 | 23.7 | 3,509 | 23.5 | 3,682 | 24.3 | 3,504 | 22.8 |
| Nonmetro, 2,500-19,999 urban pop | 4,065 | 22.4 | 3,685 | 22.1 | 3,563 | 22.2 | 3,824 | 22.5 | 4,306 | 22.3 |
| Nonmetro, <2,500 urban pop | 773 | 18.7 | 628 | 18.3 | 606 | 17.8 | 758 | 16.6 | 787 | 21.3 a |
| College Enrollment |  |  |  |  |  |  |  |  |  |  |
| Persons Aged 18 to $22^{1}$ | 7,286 | 34.4 | 7,327 | 34.6 a | 7,187 | 34.5 | 7,355 | 34.6 | 7,217 | 34.2 |
| Full-Time College Students | 3,013 | 38.0 | 3,052 | 38.2 | 2,843 | 38.0 | 2,996 | 37.9 | 3,031 | 38.0 |
| Other Persons Aged 18 to $22^{2}$ | 4,272 | 32.3 | 4,275 | 32.4 | 4,344 | 32.5 | 4,359 | 32.6 | 4,186 | 31.9 |
| Pregnancy |  |  |  |  |  |  |  |  |  |  |
| Female Aged 15-44 ${ }^{3}$ | 17,859 | 28.2 | 17,886 | 28.3 | 17,887 | 28.3 | 18,072 | 28.7 | 17,645 | 27.8 |
| Pregnant Female Aged 15-44 | 102 | 4.5 | 98 | 4.3 | 100 | 4.3 | 105 | 4.6 | 17,68 | 4.3 |
| Not Pregnant Female Aged 15-44 | 17,757 | 29.1 | 17,787 | 29.2 | 17,787 | 29.2 | 17,966 | 29.7 | 17,547 | 28.6 |
| Division by Age Group |  |  |  |  |  |  |  |  |  |  |
| New England |  |  |  |  |  |  |  |  |  |  |
| $12+$ $12-17$ | 3,534 72 3,462 | 28.0 6.7 | 3,522 72 3,45 | 27.9 6.7 | 3,523 71 3,42 | 27.9 6.7 | $\begin{array}{r}3,304 \\ 77 \\ \hline\end{array}$ | 26.2 7.1 | $\begin{array}{r} 3,764 \\ 68 \end{array}$ | $\begin{array}{rr} 29.7 & a \\ 6.3 \end{array}$ |
| 18+ | 3,462 | 29.9 | 3,451 | 29.8 | 3,452 | 29.8 | 3,227 | 27.9 | 3,696 | 31.9 a |
| 18-25 | 744 | 45.1 | 743 | 45.0 | 736 | 44.6 | 724 | 43.9 | 764 | 46.2 |
| 26-49 | 1,637 | 36.9 | 1,641 | 37.0 | 1,646 | 37.1 | 1,629 | 36.6 | 1,645 | 37.1 |
| 50+ | 1,081 | 19.7 | 1,066 | 19.5 | 1,070 | 19.5 | 874 | 16.0 | 1,288 | 23.4 a |
| Middle Atlantic |  |  |  |  |  |  |  |  |  |  |
| 12+ | 9,057 | 25.8 | 9,067 | 25.8 | 9,069 | 25.8 | 9,150 | 26.0 | 8,963 | 25.5 |
| 12-17 | 194 | 6.4 | 195 | 6.4 | 195 | 6.4 | 219 | 7.2 | 168 | 5.6 |
| 18+ | 8,863 | 27.6 | 8,871 | 27.6 | 8,874 | 27.6 | 8,931 | 27.8 | 8,795 | 27.4 |
| 18-25 | 1,962 | 44.2 | 1,965 | 44.3 | 1,965 | 44.3 | 1,953 | 43.7 | 1,970 | 44.8 |
| 26-49 | 4,226 | 32.9 | 4,244 | 33.0 | 4,248 | 33.1 | 4,274 | 33.2 | 4,178 | 32.6 |
| 50+ | 2,675 | 18.0 | 2,662 | 17.9 | 2,661 | 17.9 | 2,704 | 18.3 | 2,647 | 17.8 |

(continued)

Table C. 1 Past Month Binge Alcohol Use (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (2015+2016) \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total <br> (Numbers <br> in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent |
| East North Central |  |  |  |  |  |  |  |  |  |  |
| 12+ | 10,296 | 26.3 | 10,362 | 26.4 a | 10,365 | 26.4 | 10,271 | 26.2 | 10,321 | 26.3 |
| 12-17 | 220 | 6.0 | 216 | 5.9 | 216 | 5.9 | 256 | 6.9 | 184 | 5.0 |
| 18+ | 10,077 | 28.4 | 10,146 | 28.6 a | 10,149 | 28.6 a | 10,016 | 28.2 | 10,137 | 28.5 |
| 18-25 | 2,121 | 41.8 | 2,130 | 42.0 | 2,124 | 41.9 | 2,145 | 42.2 | 2,097 | 41.5 |
| 26-49 | 4,832 | 34.6 | 4,831 | 34.6 | 4,832 | 34.6 | 4,867 | 34.8 | 4,798 | 34.4 |
| 50+ | 3,123 | 18.9 | 3,185 | 19.3 a | 3,193 | 19.4 a | 3,004 | 18.3 | 3,243 | 19.6 |
| West North Central |  |  |  |  |  |  |  |  |  |  |
| 12+ | 4,840 | 27.7 | 4,811 | 27.5 | 4,833 | 27.6 | 4,778 | 27.4 | 4,902 | 28.0 |
| 12-17 | 87 | 5.2 | 82 | 5.0 | 82 | 5.0 | 83 | 5.0 | 90 | 5.5 |
| 18+ | 4,753 | 30.0 | 4,729 | 29.8 | 4,751 | 30.0 | 4,695 | 29.7 | 4,811 | 30.3 |
| 18-25 | 1,036 | 44.7 | 1,033 | 44.5 | 1,048 | 45.2 | 1,044 | 44.9 | 1,028 | 44.4 |
| 26-49 | 2,390 | 38.4 | 2,402 | 38.6 | 2,400 | 38.6 | 2,383 | 38.4 | 2,397 | 38.5 |
| 50+ | 1,327 | 18.2 | 1,294 | 17.7 | 1,303 | 17.8 | 1,268 | 17.4 | 1,386 | 18.9 |
| South Atlantic |  |  |  |  |  |  |  |  |  |  |
| 12+ | 12,688 | 23.9 | 12,673 | 23.8 | 12,645 | 23.8 | 12,863 | 24.3 | 12,513 |  |
| 12-17 | 215 | 4.6 | 218 | 4.6 | 215 | 4.5 | 242 | 5.1 | 188 | 4.0 |
| 18+ | 12,473 | 25.7 | 12,456 | 25.7 | 12,431 | 25.6 | 12,621 | 26.2 | 12,324 | 25.3 |
| 18-25 | 2,512 | 38.4 | 2,531 | 38.7 | 2,509 | 38.4 | 2,609 | 39.6 | 2,416 | 37.2 |
| 26-49 | 5,847 | 30.4 | 5,857 | 30.4 | 5,844 | 30.3 | 5,895 | 30.7 | 5,800 | 30.0 |
| 50+ | 4,113 | 18.1 | 4,068 | 17.9 | 4,077 | 18.0 | 4,118 | 18.4 | 4,109 | 17.9 |
|  |  |  |  |  |  |  |  |  |  |  |
| $12+$ | 3,173 | 20.2 | 3,228 | 20.5 | 3,255 | 20.7 a | 3,185 | 20.3 | 3,161 | 20.1 |
| 12-17 | 71 | 4.9 | 72 | 4.9 | 71 | 4.8 | 69 | 4.7 | 74 | 5.0 |
| 18+ | 3,102 | 21.8 | 3,156 | 22.2 | 3,184 | 22.4 a | 3,116 | 21.9 | 3,088 | 21.6 |
| 18-25 | 620 | 30.6 | 630 | 31.1 | 640 | 31.6 | 617 | 30.3 | 624 | 31.0 |
| $26-49$ | 1,568 | 27.9 | 1,604 | 28.5 | 1,610 | 28.6 a | 1,508 | 26.9 | 1,628 | 28.9 |
| $50+$ | 914 | 13.9 | 922 | 14.0 | 935 | 14.2 | 991 | 15.1 | 836 | 12.6 |
| West South Central |  |  |  |  |  |  |  |  |  |  |
| 12+ | 7,405 | 23.3 | 7,368 | 23.2 | 7,410 | 23.3 | 7,544 | 23.9 | 7,265 | 22.7 |
| 12-17 | 173 | 5.2 | 176 | 5.3 | 170 | 5.1 | 196 | 5.9 | 151 | 4.5 |
| $18+$ | 7,231 | 25.4 | 7,192 | 25.2 | 7,241 | 25.4 | 7,348 | 26.0 | 7,115 | 24.8 |
| 18-25 | 1,455 | 33.6 | 1,458 | 33.6 | 1,453 | 33.5 | 1,439 | 33.1 | 1,471 | 34.0 |
| 26-49 | 3,963 | 32.2 | 3,960 | 32.2 | 4,028 | 32.8 | 3,977 | 32.6 | 3,949 | 31.9 |
| 50+ | 1,814 | 15.3 | 1,774 | 15.0 | 1,760 | 14.8 | 1,933 | 16.4 | 1,695 | 14.2 |

Table C. 1 Past Month Binge Alcohol Use (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (\mathbf{2 0 1 5 + 2 0 1 6}) \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total <br> (Numbers <br> in 1,000s) | Percent | Total <br> (Numbers <br> in 1,000s) | Percent | Total <br> (Numbers <br> in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent |
| Mountain |  |  |  |  |  |  |  |  |  |  |
| 12+ | 4,535 | 23.3 | 4,553 | 23.3 | 4,577 | 23.5 | 4,616 | 23.9 | 4,454 | 22.7 |
| 12-17 | 94 | 4.9 | 95 | 5.0 | 96 | 5.0 | 92 | 4.8 | 96 | 5.0 |
| 18+ | 4,441 | 25.3 | 4,458 | 25.4 | 4,480 | 25.5 | 4,524 | 26.0 | 4,358 | 24.6 |
| 18-25 | 935 | 36.1 | 938 | 36.2 | 962 | 37.1 a | 976 | 37.7 | 894 | 34.5 |
| 26-49 | 2,312 | 31.9 | 2,313 | 31.9 | 2,315 | 31.9 | 2,364 | 32.9 | 2,260 | 30.9 |
| 50+ | 1,194 | 15.4 | 1,207 | 15.6 | 1,204 | 15.6 | 1,184 | 15.5 | 1,204 | 15.4 |
| Pacific |  |  |  |  |  |  |  |  |  |  |
| 12+ | 10,481 | 23.9 | 10,432 | 23.8 | 10,435 | 23.8 | 10,979 | 25.1 | 9,984 | 22.7 a |
| 12-17 | 201 | 5.0 | 203 | 5.1 a | 204 | 5.1 a | 208 | 5.2 | 195 | 4.9 |
| 18+ | 10,280 | 25.8 | 10,228 | 25.7 | 10,231 | 25.7 | 10,771 | 27.1 | 9,789 | 24.5 a |
| 18-25 | 2,057 | 35.6 | 2,061 | 35.7 | 2,077 | 35.9 | 2,119 | 36.4 | 1,996 | 34.8 |
| 26-49 | 5,398 | 31.7 | 5,370 | 31.6 | 5,375 | 31.6 | 5,416 | 32.0 | 5,381 | 31.5 |
| 50+ | 2,824 | 16.6 | 2,797 | 16.4 | 2,779 | 16.3 a | 3,236 | 19.1 | 2,413 | 14.1 a |
| Division by Hispanicity New England |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 314 | 26.0 | 312 | 25.9 | 315 | 26.1 | 339 | 28.5 | 288 | 23.5 |
| Not Hispanic/Latino | 3,220 | 28.2 | 3,210 | 28.1 | 3,209 | 28.1 | 2,965 | 25.9 | 3,476 | 30.4 a |
| Middle Atlantic |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 1,186 | 23.4 | 1,193 | 23.6 | 1,191 | 23.5 | 1,167 | 23.2 | 1,205 | 23.7 |
| Not Hispanic/Latino | 7,871 | 26.1 | 7,874 | 26.2 | 7,878 | 26.2 | 7,983 | 26.5 | 7,758 | 25.8 |
| East North Central |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 773 | 26.1 | 782 | 26.5 | 786 | 26.6 | 828 | 28.2 | 718 | 24.1 |
| Not Hispanic/Latino | 9,523 | 26.3 | 9,579 | 26.4 a | 9,578 | 26.4 | 9,443 | 26.0 | 9,603 | 26.5 |
| West North Central |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 229 | 24.3 | 217 | 23.1 | 216 | 23.0 | 221 | 23.7 | 237 | 24.9 |
| Not Hispanic/Latino | 4,611 | 27.9 | 4,594 | 27.8 | 4,617 | 27.9 | 4,557 | 27.6 | 4,665 | 28.1 |
| South Atlantic |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 1,695 | 24.7 | 1,709 | 24.9 | 1,703 | 24.8 | 1,618 | 23.9 | 1,771 | 25.5 |
| Not Hispanic/Latino | 10,993 | 23.7 | 10,964 | 23.7 | 10,942 | 23.6 | 11,245 | 24.4 | 10,741 | 23.1 |
| East South Central |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 117 | 21.1 | 123 | 22.2 | 122 | 22.1 | 99 | 18.0 | * | * |
| Not Hispanic/Latino | 3,056 | 20.2 | 3,105 | 20.5 | 3,133 | 20.7 a | 3,086 | 20.4 | 3,027 | 19.9 |

Table C. 1 Past Month Binge Alcohol Use (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (2015+2016) \\ \hline \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent |
| West South Central |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 2,178 | 24.6 | 2,147 | 24.3 | 2,152 | 24.3 | 2,253 | 25.8 | 2,104 | 23.5 |
| Not Hispanic/Latino | 5,226 | 22.8 | 5,221 | 22.7 | 5,259 | 22.9 | 5,292 | 23.1 | 5,161 | 22.4 |
| Mountain |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 1,145 | 25.7 | 1,143 | 25.7 | 1,136 | 25.5 | 1,103 | 25.0 | 1,187 | 26.4 |
| Not Hispanic/Latino | 3,390 | 22.5 | 3,410 | 22.7 | 3,441 | 22.9 a | 3,514 | 23.5 | 3,267 | 21.6 |
| Pacific |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 3,465 | 26.5 | 3,463 | 26.5 | 3,463 | 26.5 | 3,551 | 27.3 | 3,379 | 25.7 |
| Not Hispanic/Latino | 7,017 | 22.8 | 6,968 | 22.6 | 6,972 | 22.7 | 7,428 | 24.2 | 6,605 | 21.4 a |
| Division by Race |  |  |  |  |  |  |  |  |  |  |
| New England |  |  |  |  |  |  |  |  |  |  |
| White Only | 3,103 |  | 3,096 | 28.6 | 3,092 | 28.6 | 2,880 | 26.6 | 3,326 | 30.7 a |
| Black Only | 252 | 27.6 | 256 | 28.0 | 259 | 28.4 | 204 | 22.6 | 301 | 32.6 |
| NHOPI Only | * | * | * | * * | * | * | * | * | * | * |
| Asian Only | 103 | 17.6 | 104 | 18.2 | 107 | 18.8 | * | * | 67 | 11.1 * |
| AIAN Only | * | * | * | * * | * | * | * | * | * | * |
| 2 or More Races | * | * | 44 | 20.2 * | 40 | $18.4 *$ | * | * | * | * * |
| Middle Atlantic |  |  |  |  |  |  |  |  |  |  |
| White Only | 7,323 | 27.6 | 7,331 | 27.6 | 7,330 | 27.6 | 7,389 | 27.8 | 7,257 | 27.4 |
| Black Only | 1,143 | 22.3 | 1,146 | 22.4 | 1,148 | 22.4 | 1,168 | 22.9 | 1,119 | 21.8 |
| NHOPI Only | 40 | 28.7 | 40 | 27.2 | 40 | 27.2 | * | * | * | * * |
| Asian Only | 325 | 12.9 | 330 | 13.2 | 332 | 13.3 | 322 | 12.8 | 327 | 13.0 |
| AIAN Only | 60 | 25.3 | 60 | 25.3 | 60 | 25.1 | 68 | 28.8 | 52 | 21.8 |
| 2 or More Races | 166 | 26.6 | 159 | 25.6 | 159 | 25.5 | 164 | 26.7 | 168 | 26.5 |
| East North Central |  |  |  |  |  |  |  |  |  |  |
| White Only | 8,733 | 26.9 | 8,770 | 27.0 | 8,769 | 27.0 | 8,815 | 27.1 | 8,651 | 26.7 |
| Black Only | 1,211 | 26.4 | 1,242 | 27.1 a | 1,238 | 27.0 a | 1,156 | 25.2 | 1,267 | 27.6 |
| NHOPI Only |  | * | * | * * | * | * | * | * | * | * * |
| Asian Only | 123 | 9.5 | 125 | 9.7 | 128 | 9.9 | 96 | 7.5 | 150 | 11.6 |
| AIAN Only | 55 | 25.1 | 53 | 24.3 | 55 | 25.3 | 52 | 24.2 | * | * * |
| 2 or More Races | 156 | 25.4 | 155 | 25.2 | 156 | 25.4 | 140 | 23.1 | 173 | 27.5 |

(continued)

Table C. 1 Past Month Binge Alcohol Use (continued)

(continued)

Table C. 1 Past Month Binge Alcohol Use (continued)

| Domains | FE Sample$(2015+2016)$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | $\begin{gathered} \hline \text { Total } \\ \text { (Numbers } \\ \text { in } \mathbf{1 , 0 0 0 s} \text { ) } \\ \hline \end{gathered}$ | Percent | Total (Numbers in 1,000s) | Percent |
| Pacific |  |  |  |  |  |  |  |  |  |  |
| White Only | 8,454 | 26.0 | 8,440 | 26.0 | 8,437 | 26.0 | 8,928 | 27.6 | 7,979 | 24.5 a |
| Black Only | 490 | 20.4 | 475 | 19.8 | 476 | 19.8 | 492 | 20.5 | 488 | 20.3 |
| NHOPI Only | 101 | 16.6 | 93 | 15.3 | 92 | 15.3 | 86 | 18.9 | 116 | 15.2 |
| Asian Only | 835 | 14.0 | 822 | 13.8 | 826 | 13.9 | 853 | 14.1 | 817 | 14.0 |
| AIAN Only | 212 | 27.3 | 217 | 27.8 | 217 | 27.8 | 214 | 27.6 | 211 | 26.9 |
| 2 or More Races | 389 | 23.6 | 384 | 23.4 | 388 | 23.6 | 405 | 25.0 | 373 | 22.3 |
| County Type by Age Group |  |  |  |  |  |  |  |  |  |  |
| Large Metro |  |  |  |  |  |  |  |  |  |  |
| $12+$ | 38,073 | 25.4 | 38,625 | 25.4 | 39,112 | 25.4 | 38,547 | 25.8 | 37,600 | 25.0 |
| 12-17 | 717 | 5.1 | 740 | 5.2 a | 744 | 5.1 | 770 | 5.5 | 665 | 4.7 |
| 18+ | 37,356 | 27.5 | 37,886 | 27.5 | 38,369 | 27.5 | 37,777 | 27.9 | 36,935 | 27.1 |
| 18-25 | 7,422 | 38.5 | 7,521 | 38.5 | 7,613 | 38.6 | 7,459 | 38.5 | 7,384 | 38.5 |
| 26-49 | 19,516 | 33.2 | 19,826 | 33.2 | 20,098 | 33.3 | 19,643 | 33.5 | 19,388 | 32.9 |
| 50+ | 10,419 | 18.1 | 10,539 | 18.0 | 10,658 | 17.9 | 10,675 | 18.6 | 10,162 | 17.5 |
| Small Metro, pop 250,000-1,000,000 |  |  |  |  |  |  |  |  |  |  |
| 12+ | 13,177 | 23.7 | 13,281 | 23.7 | 13,097 | 23.8 | 13,564 | 24.2 | 12,789 | 23.1 |
| 12-17 | 293 | 5.5 | 293 | 5.5 | 290 | 5.5 | 323 | 6.0 | 263 | 5.0 |
| $18+$ | 12,884 | 25.6 | 12,988 | 25.6 | 12,807 | 25.7 | 13,241 | 26.1 | 12,526 | 25.1 |
| $18-25$ | 2,893 | 38.7 | 2,910 | 38.7 | 2,863 | 38.6 | 3,021 | 39.8 | 2,765 | 37.6 |
| 26-49 | 6,210 | 31.7 | 6,262 | 31.6 | 6,172 | 31.7 | 6,353 | 32.1 | 6,067 | 31.2 |
| 50+ | 3,781 | 16.3 | 3,816 | 16.3 | 3,772 | 16.4 | 3,867 | 16.6 | 3,695 | 15.9 |
| Small Metro, <250,000 population |  |  |  |  |  |  |  |  |  |  |
| $12+$ |  | 24.8 |  | 24.7 | 6,226 | 24.7 | 6,316 | 24.7 | 6,341 | 24.8 |
| 12-17 | 114 | 5.2 | 111 | 5.1 | 110 | 5.0 | 130 | 5.9 | 98 | 4.6 |
| 18+ | 6,214 | 26.6 | 6,145 | 26.5 | 6,116 | 26.6 | 6,186 | 26.5 | 6,243 | 26.7 |
| 18-25 | 1,483 | 41.3 | 1,490 | 41.8 | 1,489 | 41.9 | 1,465 | 42.0 | 1,501 | 40.7 |
| 26-49 | 2,781 | 32.7 | 2,750 | 32.7 | 2,730 | 32.7 | 2,770 | 32.0 | 2,792 | 33.5 |
| $50+\square$ | 1,951 | 17.3 | 1,905 | 17.0 | 1,896 | 17.0 | 1,952 | 17.4 | 1,950 | 17.2 |

Table C. 1 Past Month Binge Alcohol Use (continued)

(continued)

Table C. 1 Past Month Binge Alcohol Use (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (2015+2016) \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0}$ s) | Percent |
| Nonmetro, 2,500-19,999 urban popHispanic/LatinoNot Hispanic/LatinoNonmetro, <2,500 urban popHispanic/LatinoNot Hispanic/LatinoCounty Type by RaceLarge MetroWhite OnlyBlack OnlyNHOPI OnlyAsian OnlyAIAN Only2 or More RacesSmall Metro, pop 250,000-1,000,000White OnlyBlack OnlyNHOPI OnlyAsian OnlyAIAN Only2 or More RacesSmall Metro, <250,000 populationWhite OnlyBlack OnlyNHOPI OnlyAsian OnlyAIAN Only2 or More RacesNonmetro, 20,000 or more urban popWhite OnlyBlack OnlyNHOPI OnlyAsian OnlyAIAN Only2 or More Races |  |  |  |  |  |  |  |  |  |  |
|  | 242 | 24.7 | 210 | 23.8 | 197 | 22.5 | 209 | 25.5 | 274 | 24.1 |
|  | 3,823 | 22.2 | 3,475 | 22.0 | 3,367 | 22.1 | 3,614 | 22.3 | 4,031 | 22.1 |
|  | * | * | * | * * | * | * * | * | * | * | * |
|  | 730 | 18.3 | 592 | 17.9 | 573 | 17.5 | 725 | 16.5 | 736 | 20.5 |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  | 29,959 | 27.2 | 30,468 | 27.2 | 30,802 | 27.2 | 30,322 | 27.5 | 29,597 | 26.8 |
|  | 5,303 | 23.6 | 5,350 | 23.5 | 5,407 | 23.5 | 5,386 | 24.1 | 5,221 | 23.1 |
|  | 169 | 20.1 | 164 | 19.2 | 161 | 18.8 | 161 | 23.7 | 177 | 17.6 |
|  | 1,593 | 13.6 | 1,589 | 13.4 | 1,602 | 13.5 | 1,624 | 13.9 | 1,563 | 13.2 |
|  | 389 | 25.6 | 381 | 25.1 | 443 | 26.6 | 396 | 25.2 | 383 | 26.1 |
|  | 659 | 22.6 | 674 | 22.3 | 697 | 22.5 | 658 | 23.3 | 660 | 22.0 |
|  |  |  |  |  |  |  |  |  |  |  |
|  | 11,079 | 24.4 | 11,159 | 24.4 | 10,990 | 24.5 | 11,475 | 25.1 | 10,682 | 23.7 |
|  | 1,331 | 22.5 | 1,356 | 22.8 | 1,357 | 23.1 | 1,291 | 21.6 | 1,372 | 23.5 |
|  | 55 | 18.3 | 56 | 18.2 | 51 | 17.1 | 41 | 15.0 | * | * * |
|  | 253 | 12.1 | 254 | 12.1 | 251 | 12.2 | 290 | 13.4 | 217 | 10.6 |
|  | 139 | 22.4 | 146 | 22.2 | 153 | 22.3 | 138 | 21.8 | 141 | 23.0 |
|  | 319 | 23.5 | 310 | 22.4 | 294 | 22.3 | 329 | 24.8 | 308 | 22.3 |
|  |  |  |  |  |  |  |  |  |  |  |
|  | 5,455 | 25.2 | 5,434 | 25.2 | 5,399 | 25.1 | 5,427 | 25.1 | 5,483 | 25.2 |
|  | 580 | 24.0 | 534 | 22.7 | 521 | 23.3 | 630 | 24.6 | 531 | 23.3 |
|  | * | * | * | * * | * | * | * | * | * | * * |
|  | 75 | 12.2 | 71 | 12.8 | 73 | 13.1 | 68 | 10.3 | 81 | 14.5 |
|  | 76 | 26.5 | 90 | 26.0 | 103 | 26.2 | 72 | 25.5 | 80 | 27.5 |
|  | 132 | 27.6 | 116 | 26.4 | 118 | 26.4 | 114 | 25.6 | * | * |
|  |  |  |  |  |  |  |  |  |  |  |
|  | 3,128 | 24.0 | 3,076 | 24.2 | 3,062 | 24.0 | 3,225 | 24.9 | 3,031 | 23.2 |
|  | 271 | 20.4 | 275 | 20.5 | 274 | 20.4 | 252 | 20.6 | 289 | 20.1 |
|  | * | * | * | * | * | * * | * | * | * | * * |
|  | 40 | 18.0 | 39 | 18.4 | 44 | 19.0 | * | * | * | * |
|  | 62 | 22.5 | 67 | 22.4 | , | * * | * | * | 63 | 19.8 |
|  | 78 | 22.5 | 69 | 23.3 | 61 | 21.1 | * | * | 77 | 29.0 * |

Table C. 1 Past Month Binge Alcohol Use (continued)

| Domains | FE Sample <br> (2015+2016) |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent |
| Nonmetro, 2,500-19,999 urban pop |  |  |  |  |  |  |  |  |  |  |
| White Only | 3,459 | 22.1 | 3,157 | 22.0 | 3,091 | 22.0 | 3,234 | 22.0 | 3,683 | 22.2 |
| Black Only | 392 | 23.2 | 357 | 23.4 | 343 | 23.0 | 346 | 23.0 | 438 | 23.4 |
| NHOPI Only | * | * | * | * | , | * | , | * | * | * |
| Asian Only | * | * | * | * * | * | * | * | * | * | * * |
| AIAN Only | 82 | 22.6 | 68 | 23.6 | * | * * | 87 | 25.5 | 77 | 19.9 |
| 2 or More Races | 90 | 26.2 | 72 | 23.3 | 64 | 22.6 | 79 | 27.4 | * | * * |
| Nonmetro, <2,500 urban pop |  |  |  |  |  |  |  |  |  |  |
| White Only | 692 | 19.1 | 566 | 18.4 | 555 | 18.1 | 675 | 16.8 | 708 | 21.9 a |
| Black Only | 40 | 14.8 |  | * * | * | * * |  | * | * | * * |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * * |
| Asian Only | * | , | * | * * | * | * * | * | * | * | * * |
| AIAN Only | 27 | 23.5 | * | * * | * | * * | 23 | 24.1 | * | * * |
| 2 or More Races | 13 | 11.1 | * | * * | * | * | * | * | * | * * |
| College Enrollment by Gender |  |  |  |  |  |  |  |  |  |  |
| Persons Aged 18 to $22^{1}$ |  |  |  |  |  |  |  |  |  |  |
| Male | 3,798 | 35.0 | 3,806 | 35.1 | 3,750 | 35.0 | 3,873 | 35.7 | 3,724 | 34.3 |
| Female | 3,487 | 33.8 | 3,522 | 34.1 a | 3,437 | 33.9 | 3,482 | 33.4 | 3,493 | 34.2 |
| Full-Time College Students |  |  |  |  |  |  |  |  |  |  |
| Male | 1,403 | 38.2 | 1,420 | 38.3 | 1,328 | 38.3 | 1,477 | 39.4 | 1,330 | 37.0 |
| Female | 1,610 | 37.7 | 1,632 | 38.1 a | 1,515 | 37.7 | 1,519 | 36.5 | 1,701 | 38.9 |
| Other Persons Aged 18 to $22^{2}$ |  |  |  |  |  |  |  |  |  |  |
| Male | 2,395 | 33.3 | 2,385 | 33.4 | 2,422 | 33.5 | 2,396 | 33.7 | 2,394 | 33.0 |
| Female | 1,877 | 31.0 | 1,890 | 31.3 a | 1,922 | 31.4 | 1,963 | 31.4 | 1,792 | 30.6 |
| Age Group by Gender |  |  |  |  |  |  |  |  |  |  |
| $\stackrel{12+}{\text { Male }}$ |  |  |  | 29.3 |  | 29.4 |  | 29.6 |  | 28.9 |
| Female | 27,938 | 20.2 | 27,912 | 20.2 | 27,906 | 20.2 | 28,339 | 20.5 | 27,538 | 19.8 |
| 12-17 |  |  |  |  |  |  |  |  |  |  |
| Male | 646 | 5.1 | 646 | 5.1 | 643 | 5.1 | 732 | 5.8 | 559 | 4.4 a |
| Female | 682 | 5.6 | 683 | 5.6 | 677 | 5.5 | 709 | 5.8 | 655 | 5.4 |
| 18+ |  |  |  |  |  |  |  |  |  |  |
| Male | 37,424 | 31.9 | 37,457 | 31.9 | 37,563 | 32.0 | 37,619 | 32.1 | 37,230 | 31.6 |
| Female | 27,256 | 21.6 | 27,229 | 21.6 | 27,229 | 21.6 | 27,630 | 22.0 | 26,883 | 21.2 |

(continued)

Table C. 1 Past Month Binge Alcohol Use (continued)

| Domains | FE Sample (2015+2016) |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \hline \text { Total } \\ \text { (Numbers } \\ \text { in } \mathbf{1 , 0 0 0 s} \text { ) } \\ \hline \end{gathered}$ | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent |
| 18-25 |  |  |  |  |  |  |  |  |  |  |
| Male | 7,051 | 40.4 | 7,057 | 40.5 | 7,087 | 40.6 | 7,232 | 41.3 | 6,870 | 39.6 |
| Female | 6,391 | 37.0 | 6,432 | 37.2 a | 6,426 | 37.2 | 6,394 | 36.8 | 6,388 | 37.1 |
| 26-49 |  |  |  |  |  |  |  |  |  |  |
| Male | 18,845 | 38.7 | 18,908 | 38.9 | 18,950 | 39.0 | 18,810 | 38.8 | 18,880 | 38.7 |
| Female | 13,328 | 26.5 | 13,313 | 26.5 | 13,347 | 26.6 | 13,501 | 26.9 | 13,155 | 26.1 |
| 50+ |  |  |  |  |  |  |  |  |  |  |
| Male | 11,528 | 22.4 | 11,491 | 22.4 | 11,526 | 22.4 | 11,577 | 22.7 | 11,479 | 22.2 |
| Female | 7,537 | 12.9 | 7,484 | 12.8 | 7,457 | 12.7 | 7,735 | 13.3 | 7,340 | 12.4 |
| Age Group by Race 12+ |  |  |  |  |  |  |  |  |  |  |
| White Only | 53,771 | 25.7 | 53,860 | 25.7 | 53,899 | 25.7 | 54,358 | 26.0 | 53,184 | 25.3 |
| Black Only | 7,917 | 23.2 | 7,905 | 23.2 | 7,938 | 23.3 | 7,951 | 23.4 | 7,883 | 23.0 |
| NHOPI Only | 253 | 19.2 | 247 | 18.7 | 237 | 18.2 | 229 | 21.0 | 276 | 18.0 |
| Asian Only | 2,002 | 13.5 | 1,982 | 13.4 | 2,000 | 13.5 | 2,105 | 14.2 | 1,900 | 12.9 |
| AIAN Only | 775 | 24.4 | 769 | 24.2 | 794 | 25.0 | 777 | 24.6 | 773 | 24.1 |
| 2 or More Races | 1,290 | 23.2 | 1,253 | 22.6 | 1,245 | 22.4 | 1,270 | 23.3 | 1,310 | 23.2 |
| 12-17 |  |  |  |  |  |  |  |  |  |  |
| White Only |  | 5.8 | 1,059 | 5.8 | 1,051 | 5.7 | 1,161 | 6.3 | 962 | 5.2 a |
| Black Only | 136 | 3.7 | 139 | 3.7 | 135 | 3.6 | 157 | 4.2 | 115 | 3.1 |
| NHOPI Only | 12 | 6.7 | 12 | 7.2 | 12 | 7.2 | 18 | 9.4 | 6 | 3.7 |
| Asian Only | 37 | 2.8 | 36 | 2.8 | 37 | 2.8 | 34 | 2.7 | 39 | 2.9 |
| AIAN Only | 20 | 5.0 | 20 | 5.0 | 22 | 5.4 | 19 | 4.7 | 21 | 5.4 |
| 2 or More Races | 61 | 6.6 | 63 | 6.8 | 64 | 6.9 | 52 | 5.7 | 71 | 7.5 |
| 18+ |  |  |  |  |  |  |  |  |  |  |
| White Only | 52,710 | 27.6 | 52,802 | 27.6 | 52,848 | 27.6 | 53,197 | 27.9 | 52,222 | 27.2 |
| Black Only | 7,781 | 25.6 | 7,767 | 25.6 | 7,803 | 25.7 | 7,794 | 25.8 | 7,768 | 25.4 |
| NHOPI Only | 241 | 21.2 | 234 | 20.4 | 225 | 19.7 | 211 | 23.4 | 270 | 19.8 |
| Asian Only | 1,966 | 14.6 | 1,945 | 14.4 | 1,963 | 14.5 | 2,071 | 15.2 | 1,861 | 13.9 |
| AIAN Only | 755 | 27.1 | 749 | 26.9 | 772 | 27.8 | 2,757 | 27.6 | 1,852 | 26.7 |
| 2 or More Races | 1,229 | 26.6 | 1,189 | 25.7 | 1,181 | 25.6 | 1,218 | 26.8 | 1,240 | 26.4 |

(continued)

Table C. 1 Past Month Binge Alcohol Use (continued)


Table C. 1 Past Month Binge Alcohol Use (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (\mathbf{2 0 1 5 + 2 0 1 6 )} \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in $\mathbf{1 , 0 0 0}$ s) | Percent | $\begin{gathered} \hline \text { Total } \\ \text { (Numbers } \\ \text { in } 1,000 \mathrm{~s} \text { ) } \\ \hline \end{gathered}$ | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent |
| 26-49 |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 6,195 | 31.8 | 6,197 | 31.8 | 6,197 | 31.8 | 6,160 | 31.8 | 6,230 | 31.8 |
| Not Hispanic/Latino | 25,979 | 32.7 | 26,025 | 32.8 | 26,100 | 32.9 | 26,152 | 33.0 | 25,805 | 32.4 |
| $50+$ |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 1,954 | 17.4 | 1,942 | 17.3 | 1,953 | 17.4 | 1,987 | 18.0 | 1,921 | 16.8 |
| Not Hispanic/Latino | 17,111 | 17.3 | 17,033 | 17.2 | 17,029 | 17.2 | 17,324 | 17.6 | 16,899 | 17.0 |
| Pregnancy by Age Group |  |  |  |  |  |  |  |  |  |  |
| Female Aged 15-44 ${ }^{3}$ |  |  |  |  |  |  |  |  |  |  |
| 15-17 | 600 | 9.6 | 598 | 9.6 | 592 | 9.5 | 630 | 10.2 | 569 | 9.0 |
| 18-25 | 6,360 | 36.9 | 6,401 | 37.2 a | 6,394 | 37.1 | 6,372 | 36.8 | 6,347 | 37.1 |
| 26-44 | 10,899 | 27.4 | 10,887 | 27.4 | 10,902 | 27.4 | 11,069 | 28.1 | 10,730 | 26.8 |
| Pregnant Female Aged 15-44 |  |  |  |  |  |  |  |  |  |  |
| $15-17$ | * | * | * | * * | * | * * | * | * | * | * * |
| 18-25 | 43 | 5.7 | 40 | 5.3 | 40 | 5.3 | 59 | 7.1 | 27 | 4.1 |
| 26-44 | 57 | 3.9 | 57 | 3.8 | 58 | 3.9 | 45 | 3.1 | 70 | 4.5 |
| Not Pregnant Female Aged 15-44 |  |  |  |  |  |  |  |  |  |  |
| 15-17 | 598 | 9.6 | 597 | 9.6 | 590 | 9.5 | 629 | 10.2 | 568 | 9.0 |
| 18-25 | 6,317 | 38.3 | 6,361 | 38.6 a | 6,353 | 38.6 | 6,314 | 38.3 | 6,320 | 38.4 |
| 26-44 | 10,842 | 28.4 | 10,830 | 28.3 | 10,844 | 28.4 | 11,024 | 29.1 | 10,659 | 27.6 |
| Pregnancy by Race |  |  |  |  |  |  |  |  |  |  |
| Female Aged 15-44 ${ }^{3}$ |  |  |  |  |  |  |  |  |  |  |
| White Only | 14,100 | 30.3 | 14,155 | 30.4 a | 14,146 | 30.4 | 14,251 | 30.7 | 13,950 | 29.9 |
| Black Only | 2,328 | 24.6 | 2,296 | 24.3 | 2,287 | 24.2 | 2,326 | 24.8 | 2,330 | 24.4 |
| NHOPI Only | 96 | 24.1 | 88 | 22.6 | 83 | 22.1 | 75 | 20.8 | 118 | 26.8 |
| Asian Only | 631 | 14.3 | 632 | 14.3 | 628 | 14.3 | 669 | 15.5 | 592 | 13.1 |
| AIAN Only | 216 | 25.1 | 223 | 25.3 | 251 | 27.3 | 223 | 26.1 | 208 | 24.0 |
| 2 or More Races | 487 | 31.9 | 491 | 31.8 | 492 | 31.7 | 527 | 34.8 | 447 | 29.1 |
| Pregnant Female Aged 15-44 |  |  |  |  |  |  |  |  |  |  |
| White Only | 76 | 4.5 | 72 |  |  |  | 80 | 4.7 | 71 | 4.3 |
| Black Only | 19 | 5.1 | 18 | 4.8 | 18 | 5.0 | 23 | 6.1 | 14 | 4.0 |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * * |
| Asian Only | * | * | * | * * | * | * * | * | * | * | * * |
| AIAN Only | * | * | * | * * | * | * * | * | * | * | * * |
| 2 or More Races | * | * | * | * * | * | * * | * | * | * | * |

Table C. 1 Past Month Binge Alcohol Use (continued)

| Domains | FE Sample (2015+2016) |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in $1,000 s$ ) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in $1,000 s$ ) | Percent |
| Not Pregnant Female Aged 15-44 |  |  |  |  |  |  |  |  |  |  |
| White Only | 14,024 | 31.3 | 14,083 | 31.4 a | 14,073 | 31.4 | 14,171 | 31.7 | 13,878 | 30.8 |
| Black Only | 2,310 | 25.3 | 2,278 | 25.1 | 2,269 | 24.9 | 2,303 | 25.5 | 2,316 | 25.1 |
| NHOPI Only | 96 | 24.8 | 88 | 23.3 | 83 | 22.8 | 75 | 21.1 | 118 | 27.8 |
| Asian Only | 629 | 14.7 | 630 | 14.8 | 626 | 14.8 | 669 | 15.9 | 588 | 13.5 |
| AIAN Only | 213 | 25.8 | 220 | 25.9 | 247 | 28.1 | 222 | 27.0 | 205 | 24.5 |
| 2 or More Races | 484 | 32.9 | 488 | 32.8 | 490 | 32.8 | 527 | 35.9 | 442 | 29.9 |
| Pregnancy by Hispanicity |  |  |  |  |  |  |  |  |  |  |
| Female Aged 15-443 |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 3,109 | 24.2 | 3,099 | 24.1 | 3,079 | 24.0 | 3,202 | 25.0 | 3,016 | 23.3 |
| Not Hispanic/Latino | 14,750 | 29.3 | 14,787 | 29.4 | 14,808 | 29.4 | 14,870 | 29.7 | 14,630 | 28.9 |
| Pregnant Female Aged 15-44 |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 19 | 3.9 | 20 | 4.0 | 19 | 3.9 | 26 | 5.4 | 12 | 2.6 |
| Not Hispanic/Latino | 83 | 4.6 | 79 | 4.4 | 80 | 4.4 | 80 | 4.4 | 86 | 4.8 |
| Not Pregnant Female Aged 15-44 |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 3,090 | 25.0 | 3,079 | 24.9 | 3,060 | 24.8 | 3,176 | 25.8 | 3,004 | 24.1 |
| Not Hispanic/Latino | 14,667 | 30.2 | 14,708 | 30.3 | 14,728 | 30.3 | 14,790 | 30.6 | 14,544 | 29.8 |

* = low precision; -- = not available; AIAN = American Indian or Alaska Native; $\mathrm{FE}=$ field enumeration; $\mathrm{GQ}=$ group quarters; NHOPI = Native Hawaiian or Other Pacific Islander; pop = population.
${ }^{1}$ Excludes those with unknown enrollment status.
${ }^{2}$ Other Persons include respondents aged 18 to 22 not enrolled in school, enrolled in college part time, enrolled in other grades either full or part time, or enrolled with no other information available.
${ }^{3}$ Excludes those with unknown pregnancy status.
${ }^{a}$ The difference between this estimate and the person sample estimate is statistically significant at the .05 level.


## Appendix D: 2015-2016 NSDUH - Weighted Annual Averages Past Month Marijuana Use - MRJMON

Table D. 1 Past Month Marijuana Use

| Domains | $\begin{gathered} \text { FE Sample } \\ (2015+2016) \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total <br> (Numbers <br> in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent |  |
| Age Group |  |  |  |  |  |  |  |  |  |  |  |
| 12+ | 23,104 | 8.6 | 23,056 | 8.6 | 22,992 | 8.6 | 22,226 | 8.3 | 23,981 | 8.9 | a |
| 12-17 | 1,681 | 6.8 | 1,685 | 6.8 | 1,684 | 6.8 | 1,752 | 7.0 | 1,609 | 6.5 |  |
| 18+ | 21,423 | 8.8 | 21,371 | 8.8 | 21,308 | 8.7 | 20,474 | 8.4 | 22,373 | 9.1 | a |
| 18-25 | 7,053 | 20.3 | 7,097 | 20.4 a | 7,094 | 20.4 | 6,921 | 19.8 | 7,184 | 20.8 |  |
| 26-49 | 9,778 | 9.9 | 9,766 | 9.9 | 9,763 | 9.9 | 9,140 | 9.3 | 10,416 | 10.5 | a |
| 50+ | 4,593 | 4.2 | 4,508 | 4.1 | 4,450 | 4.0 a | 4,412 | 4.0 | 4,773 | 4.3 |  |
| Gender |  |  |  |  |  |  |  |  |  |  |  |
| Male | 14,205 | 10.9 | 14,214 | 10.9 | 14,201 | 10.9 | 13,715 | 10.6 | 14,696 | 11.3 |  |
| Female | 8,898 | 6.4 | 8,842 | 6.4 | 8,791 | 6.4 | 8,511 | 6.2 | 9,285 | 6.7 | a |
| Hispanicity |  |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 3,272 | 7.4 | 3,250 | 7.4 | 3,217 | 7.3 | 3,151 | 7.2 | 3,394 | 7.7 |  |
| Not Hispanic/Latino | 19,832 | 8.8 | 19,806 | 8.8 | 19,775 | 8.8 | 19,075 | 8.5 | 20,588 | 9.1 | a |
| Race |  |  |  |  |  |  |  |  |  |  |  |
| White Only | 17,615 |  | 17,552 |  | 17,537 |  | 16,984 | 8.1 | 18,247 |  | a |
| Black Only | 3,781 | 11.1 | 3,785 | 11.1 | 3,749 | 11.0 | 3,695 | 10.9 | 3,867 | 11.3 |  |
| NHOPI Only | 111 | 8.4 | 101 | 7.6 | 99 | 7.6 | 101 | 9.2 | 121 | 7.9 |  |
| Asian Only | 474 | 3.2 | 476 | 3.2 | 473 | 3.2 | 450 | 3.0 | 497 | 3.4 |  |
| AIAN Only | 300 | 9.4 | 311 | 9.8 | 300 | 9.4 | 280 | 8.9 | 319 | 10.0 |  |
| 2 or More Races | 823 | 14.8 | 831 | 15.0 | 834 | 15.0 | 716 | 13.1 | 930 | 16.5 | a |
| Division |  |  |  |  |  |  |  |  |  |  |  |
| New England | 1,485 | 11.7 | 1,493 | 11.8 | 1,494 | 11.8 | 1,391 | 11.0 | 1,578 | 12.5 |  |
| Middle Atlantic | 2,967 | 8.4 | 2,996 | 8.5 | 2,975 | 8.5 | 2,931 | 8.3 | 3,002 | 8.5 |  |
| East North Central | 3,405 | 8.7 | 3,417 | 8.7 | 3,421 | 8.7 | 3,363 | 8.6 | 3,446 | 8.8 |  |
| West North Central | 1,215 | 6.9 | 1,190 | 6.8 | 1,192 | 6.8 | 1,208 | 6.9 | 1,221 | 7.0 |  |
| South Atlantic | 4,107 | 7.7 | 4,076 | 7.7 | 4,079 | 7.7 | 4,076 | 7.7 | 4,138 | 7.7 |  |
| East South Central | 1,014 | 6.5 | 1,016 | 6.5 | 1,002 | 6.4 | 946 | 6.0 | 1,082 | 6.9 |  |
| West South Central | 1,940 | 6.1 | 1,940 | 6.1 | 1,915 | 6.0 | 1,836 | 5.8 | 2,043 | 6.4 |  |
| Mountain | 1,955 | 10.0 | 1,945 | 10.0 | 1,932 | 9.9 | 1,968 | 10.2 | 1,942 | 9.9 |  |
| Pacific | 5,018 | 11.4 | 4,982 | 11.4 | 4,981 | 11.4 | 4,508 | 10.3 | 5,528 | 12.6 |  |

Table D. 1 Past Month Marijuana Use (continued)


Table D. 1 Past Month Marijuana Use (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (2015+2016) \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent |
| East North Central |  |  |  |  |  |  |  |  |  |  |
| 12+ | 3,405 | 8.7 | 3,417 | 8.7 | 3,421 | 8.7 | 3,363 | 8.6 | 3,446 | 8.8 |
| 12-17 | 276 | 7.5 | 277 | 7.5 | 276 | 7.5 | 288 | 7.8 | 264 | 7.2 |
| 18+ | 3,128 | 8.8 | 3,140 | 8.8 | 3,145 | 8.9 | 3,075 | 8.7 | 3,182 | 9.0 |
| 18-25 | 1,030 | 20.3 | 1,034 | 20.4 | 1,036 | 20.4 | 999 | 19.6 | 1,061 | 21.0 |
| 26-49 | 1,363 | 9.8 | 1,364 | 9.8 | 1,364 | 9.8 | 1,398 | 10.0 | 1,329 | 9.5 |
| 50+ | 735 | 4.5 | 743 | 4.5 | 744 | 4.5 | 678 | 4.1 | 792 | 4.8 |
| West North Central |  |  |  |  |  |  |  |  |  |  |
| 12+ | 1,215 | 6.9 | 1,190 | 6.8 | 1,192 | 6.8 | 1,208 | 6.9 | 1,221 | 7.0 |
| 12-17 | 94 | 5.7 | 94 | 5.7 | 94 | 5.7 | 99 | 6.0 | 88 | 5.3 |
| 18+ | 1,121 | 7.1 | 1,096 | 6.9 | 1,099 | 6.9 | 1,108 | 7.0 | 1,133 | 7.1 |
| 18-25 | 366 | 15.8 | 367 | 15.8 | 370 | 16.0 | 365 | 15.7 | 366 | 15.8 |
| 26-49 | 543 | 8.7 | 543 | 8.7 | 539 | 8.7 | 525 | 8.5 | 561 | 9.0 |
| 50+ | 212 | 2.9 | 186 | 2.5 | 189 | 2.6 | 218 | 3.0 | 207 | 2.8 |
| South Atlantic |  |  |  |  |  |  |  |  |  |  |
| 12+ | 4,107 | 7.7 | 4,076 | 7.7 | 4,079 | 7.7 | 4,076 | 7.7 | 4,138 | 7.7 |
| 12-17 | 294 | 6.2 | 294 | 6.2 | 294 | 6.2 | 293 | 6.2 | 296 | 6.3 |
| 18+ | 3,812 | 7.9 | 3,781 | 7.8 | 3,784 | 7.8 | 3,783 | 7.9 | 3,842 | 7.9 |
| 18-25 | 1,348 | 20.6 | 1,358 | 20.8 | 1,365 | 20.9 | 1,400 | 21.3 | 1,295 | 20.0 |
| 26-49 | 1,694 | 8.8 | 1,671 | 8.7 | 1,675 | 8.7 | 1,537 | 8.0 | 1,852 | 9.6 |
| 50+ | 770 | 3.4 | 752 | 3.3 | 745 | 3.3 | 846 | 3.8 | 694 | 3.0 |
| East South Central |  |  |  |  |  |  |  |  |  |  |
| 12+ | 1,014 | 6.5 | 1,016 | 6.5 | 1,002 | 6.4 | 946 | 6.0 | 1,082 | 6.9 |
| 12-17 | 81 | 5.5 | 77 | 5.2 | 74 | 5.0 | 86 | 5.8 | 75 | 5.1 |
| $18+$ | 933 | 6.6 | 939 | 6.6 | 929 | 6.5 | 860 | 6.1 | 1,007 | 7.0 |
| 18-25 | 309 | 15.3 | 310 | 15.3 | 305 | 15.1 | 284 | 14.0 | 334 | 16.6 |
| 26-49 | 483 | 8.6 | 482 | 8.6 | 475 | 8.5 | 460 | 8.2 | 506 | 9.0 |
| 50+ | 141 | 2.1 | 147 | 2.2 | 148 | 2.2 | 116 | 1.8 | 167 | 2.5 |
| West South Central |  |  |  |  |  |  |  |  |  |  |
| $12+$ |  | 6.1 | 1,940 | 6.1 | 1,915 | 6.0 | 1,836 | 5.8 | 2,043 | 6.4 |
| 12-17 | 192 | 5.8 | 196 | 5.9 | 196 | 5.9 | 214 | 6.5 | 169 | 5.1 |
| $18+$ | 1,748 | 6.1 | 1,745 | 6.1 | 1,719 | 6.0 | 1,621 | 5.7 | 1,875 | 6.5 |
| 18-25 | 639 | 14.8 | 654 | 15.1 | 640 | 14.8 | 622 | 14.3 | 656 | 15.2 |
| 26-49 | 771 | 6.3 | 762 | 6.2 | 789 | 6.4 | 715 | 5.9 | 828 | 6.7 |
| 50+ | 338 | 2.8 | 329 | 2.8 | 290 | 2.4 | 285 | 2.4 | 391 | 3.3 |

Table D. 1 Past Month Marijuana Use (continued)


Table D. 1 Past Month Marijuana Use (continued)

| Domains | FE Sample (2015+2016) |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total <br> (Numbers <br> in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent |  |
| West South Central |  |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 394 | 4.5 | 397 | 4.5 | 388 | 4.4 | 381 | 4.4 | 406 | 4.5 |  |
| Not Hispanic/Latino | 1,546 | 6.7 | 1,543 | 6.7 | 1,528 | 6.7 | 1,455 | 6.4 | 1,637 | 7.1 |  |
| Mountain |  |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 433 | 9.7 | 430 | 9.7 | 438 | 9.8 | 477 | 10.8 | 388 | 8.6 |  |
| Not Hispanic/Latino | 1,522 | 10.1 | 1,515 | 10.1 | 1,495 | 9.9 | 1,491 | 10.0 | 1,554 | 10.3 |  |
| Pacific |  |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 1,182 | 9.0 | 1,160 | 8.9 | 1,154 | 8.8 | 1,064 | 8.2 | 1,299 | 9.9 |  |
| Not Hispanic/Latino | 3,836 | 12.5 | 3,822 | 12.4 | 3,827 | 12.4 | 3,444 | 11.2 | 4,229 | 13.7 | a |
| Division by Race |  |  |  |  |  |  |  |  |  |  |  |
| New England |  |  |  |  |  |  |  |  |  |  |  |
| White Only | 1,310 | 12.1 | 1,307 | 12.1 | 1,309 | 12.1 | 1,232 | 11.4 | 1,387 | 12.8 |  |
| Black Only | 91 | 10.0 | 88 | 9.6 | 87 | 9.6 | 82 | 9.0 | 100 | 10.9 |  |
| NHOPI Only | * | * | * | * * | * | * | , | - | * | * | * |
| Asian Only | 27 | 4.7 | 30 | 5.2 | 32 | 5.6 | * | * | 15 | 2.4 | * |
| AIAN Only | 3 | 5.3 | 3 | 4.6 | 3 | 5.0 | 3 | 4.1 | 4 | 6.6 |  |
| 2 or More Races | * | * | * | * * | * | * | 25 | 11.7 | * | * | * |
| Middle Atlantic |  |  |  |  |  |  |  |  |  |  |  |
| White Only | 2,224 | 8.4 | 2,248 | 8.5 | 2,234 | 8.4 | 2,252 | 8.5 | 2,196 | 8.3 |  |
| Black Only | 573 | 11.2 | 575 | 11.2 | 566 | 11.1 | 505 | 9.9 | 640 | 12.5 |  |
| NHOPI Only | 8 | 5.8 | 8 | 5.8 | 8 | 5.8 | * | * | * | * | * |
| Asian Only | 61 | 2.4 | 65 | 2.6 a | 65 | 2.6 | 73 | 2.9 | 50 | 2.0 |  |
| AIAN Only | 10 | 4.0 | 10 | 4.0 | 10 | 4.1 | 10 | 4.3 | 9 | 3.8 |  |
| 2 or More Races | 91 | 14.6 | 90 | 14.5 | 91 | 14.6 | 85 | 13.9 | 97 | 15.3 |  |
| East North Central |  |  |  |  |  |  |  |  |  |  |  |
| White Only | 2,658 | 8.2 | 2,658 | 8.2 | 2,660 | 8.2 | 2,630 | 8.1 | 2,687 | 8.3 |  |
| Black Only | 592 | 12.9 | 604 | 13.2 | 606 | 13.2 | 581 | 12.7 | 604 | 13.2 |  |
| NHOPI Only | * | * | * | * * | * | * | * | * | * | * | * |
| Asian Only | 21 | 1.6 | 21 | 1.7 | 22 | 1.7 | 24 | 1.9 | 17 | 1.3 |  |
| AIAN Only | 30 | 13.8 | 33 | 15.1 | 33 | 15.0 | * | * | * | * | * |
| 2 or More Races | 99 | 16.0 | 97 | 15.8 | 96 | 15.7 | 93 | 15.4 | 104 | 16.6 |  |

Table D. 1 Past Month Marijuana Use (continued)

| Domains | FE Sample (2015+2016) |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in 1,000s) | Percent |  |
| West North Central |  |  |  |  |  |  |  |  |  |  |  |
| White Only | 944 | 6.2 | 934 | 6.1 | 938 | 6.1 | 955 | 6.2 | 932 | 6.1 |  |
| Black Only | 184 | 16.3 | 171 | 15.2 | 174 | 15.4 | 187 | 16.7 | 180 | 15.8 |  |
| NHOPI Only | * | * | * | * * | * | * | * | * | * | * | * |
| Asian Only | 24 | 4.9 | 25 | 5.1 | 26 | 5.3 | * | * | 32 | 6.5 | * |
| AIAN Only | 27 | 12.4 | 29 | 13.0 | * | * | 21 | 9.4 | 34 | 15.2 |  |
| 2 or More Races | 32 | 10.8 | 28 | 9.5 | 28 | 9.5 | 22 | 7.6 | 43 | 13.9 |  |
| South Atlantic |  |  |  |  |  |  |  |  |  |  |  |
| White Only | 2,795 | 7.3 | 2,768 | 7.2 | 2,761 | 7.2 | 2,776 | 7.3 | 2,814 | 7.3 |  |
| Black Only | 1,132 | 9.8 | 1,124 | 9.7 | 1,132 | 9.8 | 1,137 | 9.9 | 1,128 | 9.7 |  |
| NHOPI Only | 12 | 6.3 | 12 | 6.4 | 12 | 6.7 | * | * | * | * | * |
| Asian Only | 57 | 3.0 | 56 | 3.0 | 52 | 2.8 | 48 | 2.6 | 67 | 3.5 |  |
| AIAN Only | 15 | 4.4 | 16 | 4.5 | 18 | 5.1 | 17 | 4.8 | 14 | 4.1 |  |
| 2 or More Races | 95 | 10.4 | 100 | 11.0 | 104 | 11.4 | 85 | 9.5 | 105 | 11.3 |  |
| East South Central |  |  |  |  |  |  |  |  |  |  |  |
| White Only | 758 | 6.3 | 754 | 6.3 | 751 | 6.2 | 717 | 6.0 | 798 | 6.6 |  |
| Black Only | 225 | 7.2 | 235 | 7.5 | 224 | 7.2 | 204 | 6.5 | 247 | 7.8 |  |
| NHOPI Only | * | * | * | * * | * | * | * | * | * | * | * |
| Asian Only | 3 | 1.5 | 3 | 1.4 | * | * | * | * | * | * | * |
| AIAN Only | * | * | * | * | * | * | * | * | * | * | * |
| 2 or More Races | 23 | 11.4 | 19 | 9.8 | 19 | 9.3 | * | * | * | * | * |
| West South Central |  |  |  |  |  |  |  |  |  |  |  |
| White Only | 1,429 | 5.8 | 1,435 | 5.8 | 1,426 | 5.7 | 1,299 | 5.3 | 1,560 | 6.3 |  |
| Black Only | 399 | 8.8 | 398 | 8.8 | 383 | 8.5 | 429 | 9.6 | 369 | 8.1 |  |
| NHOPI Only | * | * | * | * * | * | * | * | * | * | * | * |
| Asian Only | 18 | 1.5 | 16 | 1.3 | 15 | 1.2 | 14 | 1.2 | 22 | 1.8 |  |
| AIAN Only | 30 | 5.3 | 28 | 5.1 | 29 | 5.2 | 29 | 5.2 | 31 | 5.4 |  |
| 2 or More Races | 56 | 9.5 | 55 | 9.3 | 55 | 9.4 | 55 | 9.5 | 57 | 9.6 |  |
| Mountain |  |  |  |  |  |  |  |  |  |  |  |
| White Only | 1,627 | 9.7 | 1,615 | 9.6 | 1,617 | 9.6 | 1,647 | 9.8 | 1,607 | 9.5 |  |
| Black Only | 138 | 18.3 | 133 | 17.5 | 130 | 17.2 | * | * | 137 | 17.9 | * |
| NHOPI Only |  | , |  | * * |  | * | * | * | * | * | * |
| Asian Only | 26 | 4.1 | 26 | 4.2 | 24 | 3.7 | * | * | 30 | 4.8 | * |
| AIAN Only | 69 | 10.2 | 73 | 10.9 | 65 | 9.6 | 83 | 12.4 | 55 | 8.0 |  |
| 2 or More Races | 75 | 16.6 | 80 | 17.6 | 79 | 17.5 | 68 | 15.4 | 81 | 17.7 |  |

Table D. 1 Past Month Marijuana Use (continued)

(continued)

Table D. 1 Past Month Marijuana Use (continued)

| Domains | FE Sample$(2015+2016)$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in $1,000 s$ ) | Percent | Total (Numbers in 1,000 s) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in 1,000 s) | Percent | Total (Numbers in $1,000 \mathrm{~s})$ | Percent |  |
| Nonmetro, 20,000 or more urban pop |  |  |  |  |  |  |  |  |  |  |  |
| $12+$ | 1,253 | 8.2 | 1,215 | 8.1 | 1,198 | 8.0 | 1,313 | 8.7 | 1,193 | 7.8 |  |
| 12-17 | 87 | 6.1 | 83 | 5.9 | 81 | 5.9 | 81 | 5.7 | 92 | 6.5 |  |
| 18+ | 1,166 | 8.4 | 1,133 | 8.4 | 1,117 | 8.3 | 1,231 | 9.0 | 1,101 | 7.9 |  |
| 18-25 | 367 | 18.4 | 355 | 18.2 | 361 | 18.4 | 383 | 18.7 | 350 | 18.1 |  |
| 26-49 | 533 | 10.5 | 515 | 10.4 | 500 | 10.2 | 549 | 10.9 | 518 | 10.1 |  |
| 50+ | 266 | 3.9 | 263 | 4.0 | 256 | 3.8 | 299 | 4.5 | 233 | 3.4 |  |
| Nonmetro, 2,500-19,999 urban pop |  |  |  |  |  |  |  |  |  |  |  |
| 12+ | 1,219 | 6.7 | 1,087 | 6.5 | 1,040 | 6.5 | 1,038 | 6.1 | 1,400 | 7.2 |  |
| 12-17 | 93 | 5.9 | 83 | 5.8 | 80 | 5.8 | 105 | 7.3 | 80 | 4.8 | a |
| 18+ | 1,126 | 6.8 | 1,003 | 6.6 | 960 | 6.5 | 932 | 6.0 | 1,320 | 7.5 | a |
| 18-25 | 316 | 15.7 | 302 | 16.2 | 287 | 16.3 | 272 | 13.9 | 359 | 17.4 |  |
| 26-49 | 555 | 9.9 | 499 | 9.9 | 472 | 9.7 | 476 | 9.3 | 635 | 10.4 |  |
| 50+ | 255 | 2.8 | 202 | 2.4 | 201 | 2.5 | 184 | 2.2 | 326 | 3.4 |  |
| Nonmetro, $<2,500$ urban pop |  |  |  |  |  |  |  |  |  |  |  |
| $12+$ | 204 | 4.9 | 169 | 4.9 | 163 | 4.8 | 204 | 4.5 | 203 | 5.5 |  |
| 12-17 | 15 | 4.4 | 11 | 3.9 | 11 | 3.9 | 16 | 4.2 | 14 | 4.5 |  |
| 18+ | 188 | 5.0 | 158 | 5.0 | 152 | 4.9 | 188 | 4.5 | 189 | 5.6 |  |
| 18-25 | 58 | 14.4 | 45 | 14.4 | 45 | 14.5 | 68 | 15.3 | 48 | 13.2 |  |
| 26-49 | 78 | 6.0 | 71 | 6.7 | 65 | 6.3 | 83 | 5.7 | 74 | 6.3 |  |
| 50+ | 52 | 2.5 | 42 | 2.4 | 42 | 2.4 | 37 | 1.6 | 68 | 3.7 |  |
| County Type by Hispanicity |  |  |  |  |  |  |  |  |  |  |  |
| Large Metro |  |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 2,119 | 7.0 | 2,123 | 7.0 | 2,123 | 7.0 | 2,042 | 6.8 | 2,195 | 7.3 |  |
| Not Hispanic/Latino | 11,547 | 9.6 | 11,716 | 9.6 | 11,805 | 9.6 | 11,030 | 9.3 | 12,064 | 10.0 | a |
| Small Metro, pop 250,000-1,000,000 |  |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 724 | 8.3 | 710 | 8.2 | 685 | 8.0 | 695 | 8.3 | 753 | 8.3 |  |
| Not Hispanic/Latino | 3,903 | 8.3 | 3,914 | 8.3 | 3,872 | 8.3 | 3,863 | 8.1 | 3,942 | 8.5 |  |
| Small Metro, <250,000 population |  |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 228 | 8.3 | 235 | 8.6 | 233 | 8.7 | 203 | 7.8 | 253 | 8.8 |  |
| Not Hispanic/Latino | 1,908 | 8.4 | 1,888 | 8.3 | 1,873 | 8.3 | 1,838 | 8.0 | 1,978 | 8.7 |  |
| Nonmetro, 20,000 or more urban pop |  |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 111 1142 | 9.1 8.1 | 101 1.114 | 8.6 8.1 | $\begin{array}{r} 101 \end{array}$ | 8.6 | 112 | 8.6 | 109 1084 | 9.7 |  |
| Not Hispanic/Latino | 1,142 | 8.1 | 1,114 | 8.1 | 1,097 | 8.0 | 1,200 | 8.7 | 1,084 | 7.6 |  |

Table D. 1 Past Month Marijuana Use (continued)

| Domains | FE Sample$(2015+2016)$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in $1,000 s$ ) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in $1,000 s$ ) | Percent |  |
| Nonmetro, 2,500-19,999 urban pop |  |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 74 | 7.5 | 66 | 7.5 | 58 | 6.7 | 73 | 9.0 | 74 | 6.5 |  |
| Not Hispanic/Latino | 1,145 | 6.7 | 1,021 | 6.5 | 982 | 6.5 | 964 | 6.0 | 1,326 | 7.3 | a |
| Nonmetro, $<2,500$ urban pop Hispanic/Latino | 17 | 12.1 | 15 | 12.0 | 16 | 13.1 | * | * | * | * | * |
| Not Hispanic/Latino | 186 | 4.7 | 154 | 4.7 | 147 | 4.5 | 179 | 4.1 | 193 | 5.4 |  |
| County Type by Race |  |  |  |  |  |  |  |  |  |  |  |
| Large Metro |  |  |  |  |  |  |  |  |  |  |  |
| White Only | 9,916 | 9.0 | 10,043 | 9.0 | 10,111 | 8.9 | 9,476 | 8.6 | 10,356 | 9.4 | a |
| Black Only | 2,698 | 12.0 | 2,725 | 12.0 | 2,724 | 11.9 | 2,622 | 11.7 | 2,774 | 12.2 |  |
| NHOPI Only | 79 | 9.4 | 69 | 8.1 | 68 | 7.9 | 67 | 9.8 | 92 | 9.2 |  |
| Asian Only | 391 | 3.3 | 399 | 3.4 | 395 | 3.3 | 385 | 3.3 | 397 | 3.3 |  |
| AIAN Only | 106 | 7.0 | 110 | 7.2 | 132 | 7.9 | 102 | 6.5 | 111 | 7.6 |  |
| 2 or More Races | 475 | 16.3 | 493 | 16.3 | 498 | 16.0 | 421 | 14.9 | 528 | 17.6 |  |
| Small Metro, pop 250,000-1,000,000 |  |  |  |  |  |  |  |  |  |  |  |
| White Only | 3,699 | 8.2 | 3,684 | 8.1 | 3,619 | 8.1 | 3,710 | 8.1 | 3,687 | 8.2 |  |
| Black Only | 617 | 10.4 | 618 | 10.4 | 605 | 10.3 | 600 | 10.0 | 635 | 10.9 |  |
| NHOPI Only | 22 | 7.2 | 24 | 7.8 | 25 | 8.2 a | 19 | 7.0 | 24 | 7.4 |  |
| Asian Only | 55 | 2.6 | 53 | 2.5 | 55 | 2.7 | 45 | 2.1 | 66 | 3.2 |  |
| AIAN Only | 52 | 8.3 | 56 | 8.4 | 66 | 9.6 | 41 | 6.4 | 63 | 10.2 |  |
| 2 or More Races | 182 | 13.4 | 189 | 13.6 | 188 | 14.3 a | 144 | 10.9 | 220 | 15.9 |  |
| Small Metro, <250,000 population |  |  |  |  |  |  |  |  |  |  |  |
| White Only | 1,788 | 8.2 | 1,778 | 8.2 | 1,782 | 8.3 | 1,699 | 7.9 | 1,878 | 8.6 |  |
| Black Only | 219 | 9.1 | 211 | 9.0 | 198 | 8.9 | 223 | 8.7 | 215 | 9.4 |  |
| NHOPI Only | 3 | 4.3 | * | * | * | * * | * | * | * | * | * |
| Asian Only | 18 | 3.0 | 16 | 3.0 | 16 | 2.9 | 10 | 1.6 | 26 | 4.7 |  |
| AIAN Only | 40 | 14.1 | 48 | 14.0 | 42 | 10.6 | * | * | * | * | * |
| 2 or More Races | 66 | 13.9 | 64 | 14.6 | 64 | 14.4 | 57 | 12.7 | 76 | 15.0 |  |
| Nonmetro, 20,000 or more urban pop |  |  |  |  |  |  |  |  |  |  |  |
| White Only | 1,055 | 8.1 | 1,025 | 8.1 | 1,022 | 8.0 | 1,094 | 8.4 | 1,016 | 7.8 |  |
| Black Only | 116 | 8.7 | 112 | 8.3 | 110 | 8.2 | 119 | 9.8 | 112 | 7.8 |  |
| NHOPI Only | 4 | 7.0 | 4 | 6.4 | 3 | 5.4 | * | * | * | * | * |
| Asian Only | 7 | 3.2 | 6 | 2.7 | 6 | 2.5 | 7 | 2.7 | * | * | * |
| AIAN Only | 31 | 11.1 | 33 | 11.0 | 22 | 8.7 | 36 | 15.1 | 25 | 8.0 |  |
| 2 or More Races | 40 | 11.6 | 36 | 12.1 | 35 | 11.9 | 51 | 12.1 | 29 | 10.9 |  |

Table D. 1 Past Month Marijuana Use (continued)

| Domains | FE Sample (2015+2016) |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent |  |
| Nonmetro, 2,500-19,999 urban pop |  |  |  |  |  |  |  |  |  |  |  |
| White Only | 991 | 6.3 | 876 | 6.1 | 859 | 6.1 | 846 | 5.8 | 1,136 | 6.8 |  |
| Black Only | 120 | 7.1 | 110 | 7.2 | 101 | 6.8 | 114 | 7.6 | 127 | 6.8 |  |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * | * |
| Asian Only | * | * | * | * * | * | * * | * | * | * | * | * |
| AIAN Only | 55 | 15.2 | 56 | 19.6 a | * | * | 40 | 11.7 | 70 | 18.3 |  |
| 2 or More Races | 50 | 14.4 | 43 | 13.8 | 42 | 14.8 | * | * | 67 | 16.8 | * |
| Nonmetro, <2,500 urban pop |  |  |  |  |  |  |  |  |  |  |  |
| White Only | 166 | 4.6 | 145 | 4.7 | 144 | 4.7 | 159 | 4.0 | 172 | 5.3 |  |
| Black Only | 11 | 4.1 | * | * * | * | * * | * | * | * | * | * |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * | * |
| Asian Only | * | * | * | * * | * | * * | * | * | * | * | * |
| AIAN Only | 16 | 14.2 | 8 | 11.3 | * | * * | 16 | 16.4 | 16 | 12.7 |  |
| 2 or More Races | * | * | * | * * | * | * * | * | * | * | * | * |
| College Enrollment by Gender Persons Aged 18 to $22^{1}$ |  |  |  |  |  |  |  |  |  |  |  |
| Male | 2,614 | 24.1 | 2,625 | 24.2 | 2,604 | 24.3 | 2,584 | 23.8 | 2,644 | 24.4 |  |
| Female | 1,859 | 18.0 | 1,879 | 18.2 a | 1,837 | 18.1 | 1,807 | 17.3 | 1,912 | 18.7 |  |
| Full-Time College Students |  |  |  |  |  |  |  |  |  |  |  |
| Male | 833 | 22.7 | 848 | 22.9 | 792 | 22.8 | 881 | 23.5 | 785 | 21.8 |  |
| Female | 725 | 17.0 | 731 | 17.1 | 673 | 16.7 | 646 | 15.5 | 804 | 18.4 | a |
| Other Persons Aged 18 to $22^{2}$ |  |  |  |  |  |  |  |  |  |  |  |
| Male | 1,781 | 24.8 | 1,777 | 24.9 | 1,812 | 25.0 | 1,703 | 24.0 | 1,859 | 25.6 |  |
| Female | 1,134 | 18.7 | 1,148 | 19.0 a | 1,164 | 19.0 a | 1,160 | 18.5 | 1,107 | 18.9 |  |
| Age Group by Gender 12+ |  |  |  |  |  |  |  |  |  |  |  |
| Male | 14,205 | 10.9 | 14,214 | 10.9 | 14,201 | 10.9 | 13,715 | 10.6 | 14,696 | 11.3 |  |
| Female | 8,898 | 6.4 | 8,842 | 6.4 | 8,791 | 6.4 | 8,511 | 6.2 | 9,285 | 6.7 | a |
| 12-17 |  |  |  |  |  |  |  |  |  |  |  |
| Male | 912 | 7.2 | 918 | 7.2 | 920 | 7.3 | 956 | 7.5 | 867 | 6.8 |  |
| Female | 769 | 6.3 | 767 | 6.3 | 764 | 6.3 | 796 | 6.5 | 741 | 6.1 |  |
| 18+ |  |  |  |  |  |  |  |  |  |  |  |
| Male | 13,294 | 11.3 | 13,296 | 11.3 | 13,281 | 11.3 | 12,758 | 10.9 | 13,829 | 11.7 | a |
| Female | 8,130 | 6.4 | 8,075 | 6.4 | 8,026 | 6.4 | 7,715 | 6.1 | 8,544 | 6.7 | a |

Table D. 1 Past Month Marijuana Use (continued)

| Domains | FE Sample (2015+2016) |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000 s) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in 1,000 s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent |  |
| 18-25 |  |  |  |  |  |  |  |  |  |  |  |
| Male | 4,138 | 23.7 | 4,155 | 23.8 | 4,168 | 23.9 | 4,108 | 23.4 | 4,168 | 24.0 |  |
| Female | 2,915 | 16.9 | 2,941 | 17.0 a | 2,926 | 16.9 | 2,814 | 16.2 | 3,016 | 17.5 |  |
| 26-49 |  |  |  |  |  |  |  |  |  |  |  |
| Male | 6,234 | 12.8 | 6,242 | 12.8 | 6,233 | 12.8 | 5,846 | 12.1 | 6,623 | 13.6 | a |
| Female | 3,544 | 7.1 | 3,523 | 7.0 | 3,531 | 7.0 | 3,294 | 6.6 | 3,793 | 7.5 | a |
| $50+$ Male |  |  |  |  |  |  |  |  |  |  |  |
| Male Female | 2,921 1,671 | 5.7 2.9 | 2,898 1,610 | 5.6 2.7 | 2,880 1,570 | 5.6 2.7 | 2,805 1,607 | 5.5 2.8 | 3,038 1,735 | 5.9 2.9 |  |
| Age Group by Race 12+ |  |  |  |  |  |  |  |  |  |  |  |
| White Only | 17,615 | 8.4 | 17,552 | 8.4 | 17,537 | 8.4 | 16,984 | 8.1 | 18,247 | 8.7 | a |
| Black Only | 3,781 | 11.1 | 3,785 | 11.1 | 3,749 | 11.0 | 3,695 | 10.9 | 3,867 | 11.3 |  |
| NHOPI Only | 111 | 8.4 | 101 | 7.6 | 99 | 7.6 | 101 | 9.2 | 121 | 7.9 |  |
| Asian Only | 474 | 3.2 | 476 | 3.2 | 473 | 3.2 | 450 | 3.0 | 497 | 3.4 |  |
| AIAN Only | 300 | 9.4 | 311 | 9.8 | 300 | 9.4 | 280 | 8.9 | 319 | 10.0 |  |
| 2 or More Races | 823 | 14.8 | 831 | 15.0 | 834 | 15.0 | 716 | 13.1 | 930 | 16.5 | a |
| 12-17 |  |  |  |  |  |  |  |  |  |  |  |
| White Only | 1,251 | 6.8 | 1,251 | 6.8 | 1,251 | 6.8 | 1,327 | 7.2 | 1,174 | 6.4 |  |
| Black Only | 255 | 6.9 | 256 | 6.9 | 253 | 6.8 | 264 | 7.1 | 246 | 6.6 |  |
| NHOPI Only | 15 | 8.2 | 13 | 7.9 | 13 | 7.9 | * | * | 4 | 2.5 | * |
| Asian Only | 38 | 2.9 | 38 | 2.9 | 38 | 2.9 | 27 | 2.1 | 49 | 3.6 |  |
| AIAN Only | 27 | 6.7 | 29 | 7.2 | 31 | 7.6 | 30 | 7.3 | 24 | 6.1 |  |
| 2 or More Races | 95 | 10.3 | 98 | 10.6 a | 98 | 10.5 | 79 | 8.7 | 111 | 11.8 |  |
| 18+ |  |  |  |  |  |  |  |  |  |  |  |
| White Only | 16,365 | 8.6 | 16,301 | 8.5 | 16,286 | 8.5 | 15,656 | 8.2 | 17,073 | 8.9 | a |
| Black Only | 3,526 | 11.6 | 3,529 | 11.6 | 3,495 | 11.5 | 3,431 | 11.4 | 3,621 | 11.8 |  |
| NHOPI Only | 96 | 8.5 | 87 | 7.6 | 86 | 7.5 | 75 | 8.3 | 117 | 8.6 |  |
| Asian Only | 436 | 3.2 | 438 | 3.3 | 435 | 3.2 | 423 | 3.1 | 448 | 3.3 |  |
| AIAN Only | 273 | 9.8 | 282 | 10.2 | 269 | 9.7 | 251 | 9.1 | 296 | 10.5 |  |
| 2 or More Races | 728 | 15.7 | 733 | 15.9 | 736 | 15.9 | 637 | 14.0 | 819 | 17.4 |  |

Table D. 1 Past Month Marijuana Use (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (2015+2016) \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent |
| 18-25 |  |  |  |  |  |  |  |  |  |  |
| White Only | 5,222 | 20.4 | 5,265 | 20.6 a | 5,256 | 20.6 | 5,061 | 19.7 | 5,382 | 21.2 |
| Black Only | 1,246 | 23.4 | 1,256 | 23.6 | 1,255 | 23.5 | 1,270 | 23.6 | 1,223 | 23.1 |
| NHOPI Only | 46 | 19.2 | 44 | 18.7 | 43 | 18.5 | 45 | 18.3 | 46 | 20.2 |
| Asian Only | 196 | 9.2 | 194 | 9.1 | 189 | 9.0 | 196 | 9.5 | 196 | 8.9 |
| AIAN Only | 98 | 18.5 | 97 | 18.3 | 104 | 19.1 | 91 | 17.6 | 104 | 19.5 |
| 2 or More Races | 245 | 25.5 | 241 | 25.1 | 248 | 25.5 | 257 | 25.7 | 233 | 25.2 |
| 26-49 |  |  |  |  |  |  |  |  |  |  |
| White Only | 7,373 | 9.8 | 7,363 | 9.8 | 7,397 | 9.9 | 6,921 | 9.2 | 7,824 | 10.4 |
| Black Only | 1,665 | 12.6 | 1,656 | 12.5 | 1,633 | 12.4 | 1,586 | 12.1 | 1,745 | 13.1 |
| NHOPI Only | 37 | 7.2 | 31 | 6.0 | 31 | 6.2 | 28 | 6.4 | * | * |
| Asian Only | 203 | 3.0 | 204 | 3.0 | 205 | 3.0 | 163 | 2.4 | 243 | 3.6 |
| AIAN Only | 137 | 10.3 | 149 | 11.0 | 138 | 10.1 | 134 | 9.9 | 141 | 10.6 |
| 2 or More Races | 362 | 19.0 | 362 | 18.8 | 359 | 18.9 | 308 | 16.8 | 417 | 21.1 |
| 50+ |  |  |  |  |  |  |  |  |  |  |
| White Only | 3,770 | 4.2 | 3,673 | 4.1 a | 3,633 | 4.0 a | 3,674 | 4.1 | 3,866 | 4.2 |
| Black Only | 614 | 5.2 | 617 | 5.2 | 607 | 5.1 | 575 | 4.9 | 653 | 5.5 |
| NHOPI Only | * | * | * | * | * | * * | * | * | * | * * |
| Asian Only | 37 | 0.8 | 40 | 0.9 | 41 | 0.9 | 64 | 1.4 | 9 | 0.2 |
| AIAN Only | 38 | 4.2 | 37 | 4.1 | 28 | 3.2 | 25 | 2.9 | 51 | 5.3 |
| 2 or More Races | 120 | 6.8 | 130 | 7.5 | 129 | 7.4 | 71 | 4.2 | 169 | 9.4 |
| Age Group by Hispanicity |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 3,272 | 7.4 | 3,250 | 7.4 | 3,217 | 7.3 | 3,151 | 7.2 | 3,394 | 7.7 |
| Not Hispanic/Latino | 19,832 | 8.8 | 19,806 | 8.8 | 19,775 | 8.8 | 19,075 | 8.5 | 20,588 | 9.1 |
| 12-17 |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 382 | 6.6 | 379 | 6.5 | 378 | 6.5 | 408 | 7.1 | 355 | 6.1 |
| Not Hispanic/Latino | 1,299 | 6.8 | 1,306 | 6.8 | 1,306 | 6.8 | 1,344 | 7.0 | 1,253 | 6.6 |
| 18+ |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 2,891 | 7.6 | 2,871 | 7.5 | 2,839 | 7.4 | 2,743 | 7.3 | 3,038 | 7.9 |
| Not Hispanic/Latino | 18,533 | 9.0 | 18,500 | 9.0 | 18,469 | 9.0 | 17,731 | 8.7 | 19,334 | 9.4 |
| 18-25 |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 1,370 | 18.3 | 1,379 | 18.5 | 1,375 | 18.4 | 1,341 | 18.0 | 1,398 | 18.7 |
| Not Hispanic/Latino | 5,683 | 20.8 | 5,717 | $21.0 \quad$ a | 5,719 | 21.0 | 5,580 | 20.3 | 5,786 | 21.4 |

(continued)

Table D. 1 Past Month Marijuana Use (continued)

| Domains | FE Sample (2015+2016) |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  |  | 2015 NSDUH |  | 2016 NSDUH |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total <br> (Numbers <br> in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent |  | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in 1,000s) | Percent |  |
| 26-49 |  |  |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 1,247 | 6.4 | 1,248 | 6.4 | 1,231 | 6.3 |  | 1,118 | 5.8 | 1,375 | 7.0 |  |
| Not Hispanic/Latino | 8,531 | 10.7 | 8,518 | 10.7 | 8,533 | 10.7 |  | 8,022 | 10.1 | 9,040 | 11.4 | a |
| 50+ |  |  |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 274 | 2.4 | 244 | 2.2 | 233 | 2.1 |  | 284 | 2.6 | 265 | 2.3 |  |
| Not Hispanic/Latino | 4,318 | 4.4 | 4,264 | 4.3 | 4,218 | 4.3 | a | 4,129 | 4.2 | 4,508 | 4.5 |  |
| Pregnancy by Age Group Female Aged 15-44 ${ }^{3}$ |  |  |  |  |  |  |  |  |  |  |  |  |
| 15-17 | 656 | 10.5 | 655 | 10.5 | 652 | 10.4 |  | 680 | 11.0 | 632 | 10.0 |  |
| 18-25 | 2,893 | 16.8 | 2,919 | 17.0 a | 2,903 | 16.9 |  | 2,794 | 16.1 | 2,993 | 17.5 |  |
| 26-44 | 3,050 | 7.7 | 3,041 | 7.7 | 3,046 | 7.7 |  | 2,868 | 7.3 | 3,232 | 8.1 |  |
| Pregnant Female Aged 15-44 |  |  |  |  |  |  |  |  |  |  |  |  |
| 15-17 | * | * | * | * | * | * | * | * | * | * | * | * |
| 18-25 | 55 | 7.4 | 55 | 7.3 | 56 | 7.4 |  | 53 | 6.4 | 56 | 8.5 |  |
| 26-44 | 34 | 2.3 | 36 | 2.4 | 36 | 2.4 |  | 18 | 1.3 | 51 | 3.3 |  |
| Not Pregnant Female Aged 15-44 |  |  |  |  |  |  |  |  |  |  |  |  |
| 15-17 | 651 | 10.4 | 649 | 10.5 | 647 | 10.4 |  | 674 | 10.9 | 628 | 10.0 |  |
| 18-25 | 2,838 | 17.2 | 2,864 | 17.4 a | 2,847 | 17.3 |  | 2,740 | 16.6 | 2,936 | 17.8 |  |
| 26-44 | 3,015 | 7.9 | 3,006 | 7.9 | 3,010 | 7.9 |  | 2,850 | 7.5 | 3,181 | 8.2 |  |
| Pregnancy by Race |  |  |  |  |  |  |  |  |  |  |  |  |
| Female Aged 15-44 ${ }^{3}$ |  |  |  |  |  |  |  |  |  |  |  |  |
| White Only | 4,821 | 10.4 | 4,829 | 10.4 | 4,822 | 10.4 |  | 4,613 | 9.9 | 5,028 | 10.8 | a |
| Black Only | 1,212 | 12.8 | 1,219 | 12.9 | 1,213 | 12.8 |  | 1,192 | 12.7 | 1,233 | 12.9 |  |
| NHOPI Only | 35 | 8.8 | 26 | 6.7 | 25 | 6.6 |  | 40 | 11.2 | * | * | * |
| Asian Only | 150 | 3.4 | 149 | 3.4 | 144 | 3.3 |  | 121 | 2.8 | 179 | 4.0 |  |
| AIAN Only | 97 | 11.2 | 105 | 11.8 | 109 | 11.9 |  | 107 | 12.5 | 86 | 10.0 |  |
| 2 or More Races | 284 | 18.6 | 286 | 18.5 | 289 | 18.6 |  | 268 | 17.7 | 301 | 19.6 |  |
| Pregnant Female Aged 15-44 |  |  |  |  |  |  |  |  |  |  |  |  |
| White Only | 64 | 3.8 | 64 | 3.8 | 65 | 3.8 |  | 50 | 2.9 | 77 | 4.7 |  |
| Black Only | 26 | 7.1 | 27 | 7.2 | 27 | 7.4 |  | 27 | 7.0 | 25 | 7.2 |  |
| NHOPI Only | * | * | * | * * | * |  | * | * | * | * | * | * |
| Asian Only | * | * | * | * * | * |  | * | * | * | * | * | * |
| AIAN Only | * | * | * | * * | * | * | * | * | * | * | * | * |
| 2 or More Races | * | * | * | * * | * | * | * | * | * | * | * | * |

Table D. 1 Past Month Marijuana Use (continued)

| Domains | FE Sample$(2015+2016)$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent |  |
| Not Pregnant Female Aged 15-44 |  |  |  |  |  |  |  |  |  |  |  |
| White Only | 4,757 | 10.6 | 4,766 | 10.6 | 4,757 | 10.6 | 4,563 | 10.2 | 4,951 | 11.0 |  |
| Black Only | 1,187 | 13.0 | 1,192 | 13.1 | 1,186 | 13.0 | 1,165 | 12.9 | 1,208 | 13.1 |  |
| NHOPI Only | 35 | 8.9 | 26 | 6.8 | 24 | 6.6 | 40 | 11.2 | * | * | * |
| Asian Only | 148 | 3.5 | 147 | 3.4 | 141 | 3.3 | 121 | 2.9 | 174 | 4.0 |  |
| AIAN Only | 96 | 11.6 | 104 | 12.2 | 108 | 12.2 | 107 | 13.0 | 84 | 10.1 |  |
| 2 or More Races | 283 | 19.2 | 285 | 19.2 | 288 | 19.3 | 268 | 18.2 | 298 | 20.2 |  |
| Pregnancy by Hispanicity |  |  |  |  |  |  |  |  |  |  |  |
| Female Aged 15-44 ${ }^{3}$ |  |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 996 | 7.7 | 1,000 | 7.8 | 994 | 7.7 | 1,011 | 7.9 | 981 | 7.6 |  |
| Not Hispanic/Latino | 5,603 | 11.1 | 5,615 | 11.1 | 5,608 | 11.1 | 5,331 | 10.6 | 5,875 | 11.6 | a |
| Pregnant Female Aged 15-44 |  |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 11 | 2.4 | 12 | 2.5 | 13 | 2.5 | 7 | 1.5 | 15 | 3.2 |  |
| Not Hispanic/Latino | 83 | 4.6 | 83 | 4.6 | 85 | 4.7 | 71 | 3.9 | 96 | 5.4 |  |
| Not Pregnant Female Aged 15-44 |  |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 985 | 8.0 | 988 | 8.0 | 981 | 8.0 | 1,003 | 8.2 | 966 | 7.8 |  |
| Not Hispanic/Latino | 5,520 | 11.4 | 5,532 | 11.4 | 5,523 | 11.4 | 5,261 | 10.9 | 5,779 | 11.8 | a |

* = low precision; -- = not available; AIAN = American Indian or Alaska Native; FE = field enumeration; GQ = group quarters; NHOPI = Native Hawaiian or Other Pacific Islander; pop = population.
${ }^{1}$ Excludes those with unknown enrollment status.
${ }^{2}$ Other Persons include respondents aged 18 to 22 not enrolled in school, enrolled in college part time, enrolled in other grades either full or part time, or enrolled with no other information available.
${ }^{3}$ Excludes those with unknown pregnancy status.
${ }^{a}$ The difference between this estimate and the person sample estimate is statistically significant at the .05 level.


## Appendix E: 2015-2016 NSDUH - Weighted Annual Averages Past Month Stimulant Use - STMNMMON

Table E. 1 Past Month Stimulant Use

| Domains | $\begin{gathered} \text { FE Sample } \\ (2015+2016) \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in $\mathbf{1 , 0 0 0}$ s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | $\begin{gathered} \hline \text { Total } \\ \text { (Numbers } \\ \text { in } \mathbf{1 , 0 0 0 s} \text { ) } \\ \hline \end{gathered}$ | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent |
| Age Group |  |  |  |  |  |  |  |  |  |  |
| 12+ | 1,694 | 0.6 | 1,704 | 0.6 | 1,711 | 0.6 | 1,653 | 0.6 | 1,735 | 0.6 |
| 12-17 | 105 | 0.4 | 106 | 0.4 | 108 | 0.4 | 117 | 0.5 | 92 | 0.4 |
| 18+ | 1,590 | 0.7 | 1,598 | 0.7 | 1,602 | 0.7 | 1,536 | 0.6 | 1,643 | 0.7 |
| 18-25 | 762 | 2.2 | 769 | 2.2 | 763 | 2.2 | 757 | 2.2 | 767 | 2.2 |
| 26-49 | 686 | 0.7 | 688 | 0.7 | 696 | 0.7 | 645 | 0.7 | 727 | 0.7 |
| 50+ | 142 | 0.1 | 141 | 0.1 | 143 | 0.1 | 134 | 0.1 | 150 | 0.1 |
| Gender |  |  |  |  |  |  |  |  |  |  |
| Male | 879 | 0.7 | 894 | 0.7 | 899 | 0.7 | 877 | 0.7 | 881 | 0.7 |
| Female | 815 | 0.6 | 809 | 0.6 | 811 | 0.6 | 776 | 0.6 | 854 | 0.6 |
| Hispanicity |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 184 | 0.4 | 186 | 0.4 | 190 | 0.4 | 172 | 0.4 | 197 | 0.4 |
| Not Hispanic/Latino | 1,510 | 0.7 | 1,517 | 0.7 | 1,521 | 0.7 | 1,481 | 0.7 | 1,539 | 0.7 |
| Race |  |  |  |  |  |  |  |  |  |  |
| White Only | 1,512 | 0.7 | 1,521 | 0.7 | 1,523 | 0.7 | 1,481 | 0.7 | 1,543 | 0.7 |
| Black Only | 61 | 0.2 | 64 | 0.2 a | 64 | 0.2 a | 39 | 0.1 | 83 | 0.2 |
| NHOPI Only | 6 | 0.4 | 6 | 0.5 | 6 | 0.5 | 9 | 0.8 | 2 | 0.1 |
| Asian Only | 37 | 0.3 | 37 | 0.3 | 37 | 0.3 | 47 | 0.3 | 28 | 0.2 |
| AIAN Only | 15 | 0.5 | 12 | 0.4 | 15 | 0.5 | 22 | 0.7 | 7 | 0.2 |
| 2 or More Races | 64 | 1.1 | 64 | 1.1 | 65 | 1.2 | 55 | 1.0 | 72 | 1.3 |
| Division |  |  |  |  |  |  |  |  |  |  |
| New England | 126 | 1.0 | 130 | 1.0 a | 127 | 1.0 | 125 | 1.0 | 126 | 1.0 |
| Middle Atlantic | 213 | 0.6 | 212 | 0.6 | 210 | 0.6 | 188 | 0.5 | 238 | 0.7 |
| East North Central | 275 | 0.7 | 275 | 0.7 | 277 | 0.7 | 299 | 0.8 | 251 | 0.6 |
| West North Central | 117 | 0.7 | 114 | 0.6 | 117 | 0.7 | 95 | 0.5 | 139 | 0.8 |
| South Atlantic | 332 | 0.6 | 336 | 0.6 | 335 | 0.6 | 318 | 0.6 | 345 | 0.6 |
| East South Central | 124 | 0.8 | 130 | 0.8 | 132 | 0.8 | 149 | 0.9 | 100 | 0.6 |
| West South Central | 169 | 0.5 | 171 | 0.5 | 171 | 0.5 | 178 | 0.6 | 159 | 0.5 |
| Mountain | 104 | 0.5 | 104 | 0.5 | 108 | 0.6 | 102 | 0.5 | 107 | 0.5 |
| Pacific | 235 | 0.5 | 232 | 0.5 | 234 | 0.5 | 200 | 0.5 | 270 | 0.6 |

Table E. 1 Past Month Stimulant Use (continued)

| Domains | FE Sample$(2015+2016)$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample <br> Excluding GQ, AIAN <br> Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total <br> (Numbers <br> in 1,000s) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000 s) | Percent |  |
| County Type |  |  |  |  |  |  |  |  |  |  |  |
| Large Metro | 962 | 0.6 | 985 | 0.6 | 995 | 0.6 | 890 | 0.6 | 1,033 | 0.7 |  |
| Small Metro, pop 250,000-1,000,000 | 362 | 0.7 | 362 | 0.6 | 350 | 0.6 | 349 | 0.6 | 375 | 0.7 |  |
| Small Metro, <250,000 population | 185 | 0.7 | 186 | 0.7 | 189 | 0.8 | 181 | 0.7 | 189 | 0.7 |  |
| Nonmetro, 20,000 or more urban pop | 95 | 0.6 | 95 | 0.6 | 96 | 0.6 | 127 | 0.8 | 63 | 0.4 | a |
| Nonmetro, 2,500-19,999 urban pop | 81 | 0.4 | 67 | 0.4 | 70 | 0.4 | 102 | 0.6 | 59 | 0.3 |  |
| Nonmetro, <2,500 urban pop | 10 | 0.2 | 9 | 0.3 | 10 | 0.3 | 4 | 0.1 | 17 | 0.4 |  |
| College Enrollment |  |  |  |  |  |  |  |  |  |  |  |
| Persons Aged 18 to $22^{1}$ | 536 | 2.5 | 539 | 2.5 | 523 | 2.5 | 535 | 2.5 | 538 | 2.6 |  |
| Full-Time College Students | 281 | 3.5 | 283 | 3.5 | 263 | 3.5 | 289 | 3.7 | 274 | 3.4 |  |
| Other Persons Aged 18 to $22^{2}$ | 255 | 1.9 | 256 | 1.9 | 259 | 1.9 | 246 | 1.8 | 264 | 2.0 |  |
| Pregnancy |  |  |  |  |  |  |  |  |  |  |  |
| Female Aged 15-44 ${ }^{3}$ | 661 | 1.0 | 664 | 1.1 | 666 | 1.1 | 620 | 1.0 | 701 | 1.1 |  |
| Pregnant Female Aged 15-44 | 2 | 0.1 | 2 | 0.1 | 3 | 0.1 | 3 | 0.1 | 1 | 0.1 |  |
| Not Pregnant Female Aged 15-44 | 659 | 1.1 | 661 | 1.1 | 663 | 1.1 | 617 | 1.0 | 700 | 1.1 |  |
| Division by Age Group |  |  |  |  |  |  |  |  |  |  |  |
| New England |  |  |  |  |  |  |  |  |  |  |  |
| 12+ | 126 | 1.0 | 130 | 1.0 a | 127 | 1.0 | 125 | 1.0 | 126 | 1.0 |  |
| 12-17 | 7 | 0.6 | 7 | 0.7 a | 7 | 0.7 | 12 | 1.1 | 1 | 0.1 |  |
| 18+ | 119 | 1.0 | 123 | 1.1 a | 120 | 1.0 | 113 | 1.0 | 125 | 1.1 |  |
| 18-25 | 69 | 4.2 | 72 | 4.3 | 68 | 4.1 | 65 | 4.0 | 73 | 4.4 |  |
| 26-49 | 44 | 1.0 | 46 | 1.0 | 46 | 1.0 | 37 | 0.8 | 52 | 1.2 |  |
| 50+ | 5 | 0.1 | 5 | 0.1 | 6 | 0.1 | 10 | 0.2 | * | * | * |
| Middle Atlantic |  |  |  |  |  |  |  |  |  |  |  |
| 12+ | 213 | 0.6 | 212 | 0.6 | 210 | 0.6 | 188 | 0.5 | 238 | 0.7 |  |
| 12-17 | 8 | 0.3 | 7 | 0.2 | 7 | 0.2 | 12 | 0.4 | 3 | 0.1 |  |
| 18+ | 205 | 0.6 | 204 | 0.6 | 202 | 0.6 | 175 | 0.5 | 235 | 0.7 |  |
| 18-25 | 106 | 2.4 | 105 | 2.4 | 102 | 2.3 | 91 | 2.0 | 121 | 2.7 |  |
| 26-49 | 92 | 0.7 | 93 | 0.7 | 93 | 0.7 | 85 | 0.7 | 100 | 0.8 |  |
| 50+ | 7 | 0.0 | 7 | 0.0 | 7 | 0.0 | * | * | 13 | 0.1 | * |

Table E. 1 Past Month Stimulant Use (continued)

| Domains | FE Sample$(2015+2016)$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in $1,000 s$ ) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in 1,000s) | Percent |
| East North Central |  |  |  |  |  |  |  |  |  |  |
| 12+ | 275 | 0.7 | 275 | 0.7 | 277 | 0.7 | 299 | 0.8 | 251 | 0.6 |
| 12-17 | 14 | 0.4 | 14 | 0.4 | 14 | 0.4 | 16 | 0.4 | 13 | 0.3 |
| 18+ | 261 | 0.7 | 261 | 0.7 | 263 | 0.7 | 283 | 0.8 | 239 | 0.7 |
| 18-25 | 145 | 2.9 | 144 | 2.8 | 145 | 2.9 | 140 | 2.8 | 150 | 3.0 |
| 26-49 | 104 | 0.7 | 105 | 0.7 | 105 | 0.8 | 119 | 0.9 | 88 | 0.6 |
| 50+ | 12 | 0.1 | 12 | 0.1 | 13 | 0.1 | 24 | 0.1 | * | * * |
| West North Central |  |  |  |  |  |  |  |  |  |  |
| 12+ | 117 | 0.7 | 114 | 0.6 | 117 | 0.7 | 95 | 0.5 | 139 | 0.8 |
| 12-17 | 12 | 0.7 | 11 | 0.7 | 12 | 0.7 | 10 | 0.6 | 15 | 0.9 |
| 18+ | 105 | 0.7 | 102 | 0.6 | 105 | 0.7 | 85 | 0.5 | 124 | 0.8 |
| 18-25 | 51 | 2.2 | 49 | 2.1 | 50 | 2.1 | 58 | 2.5 | 44 | 1.9 |
| 26-49 | 44 | 0.7 | 43 | 0.7 | 45 | 0.7 | 27 | 0.4 | 61 | 1.0 |
| 50+ | 10 | 0.1 | 10 | 0.1 | 10 | 0.1 | * | * | 19 | 0.3 * |
| South Atlantic |  |  |  |  |  |  |  |  |  |  |
| $12+$ | 332 | 0.6 | 336 | 0.6 | 335 | 0.6 | 318 | 0.6 | 345 | 0.6 |
| 12-17 | 24 | 0.5 | 26 | 0.5 a | 26 | 0.6 a | 29 | 0.6 | 19 | 0.4 |
| 18+ | 307 | 0.6 | 310 | 0.6 | 309 | 0.6 | 290 | 0.6 | 325 | 0.7 |
| 18-25 | 141 | 2.2 | 146 | 2.2 a | 144 | 2.2 | 155 | 2.4 | 128 | 2.0 |
| 26-49 | 124 | 0.6 | 121 | 0.6 | 122 | 0.6 | 102 | 0.5 | 147 | 0.8 |
| 50+ | 42 | 0.2 | 43 | 0.2 | 43 | 0.2 | 32 | 0.1 | 51 | 0.2 |
| East South Central |  |  |  |  |  |  |  |  |  |  |
| 12+ | 124 | 0.8 | 130 | 0.8 | 132 | 0.8 | 149 | 0.9 | 100 | 0.6 |
| 12-17 | 2 | 0.1 | 2 | 0.1 | 2 | 0.1 | 2 | 0.2 | 1 | 0.1 |
| 18+ | 123 | 0.9 | 128 | 0.9 | 131 | 0.9 | 146 | 1.0 | 99 | 0.7 |
| 18-25 | 45 | 2.2 | 46 | 2.3 | 47 | 2.3 | 52 | 2.6 | 37 | 1.8 |
| 26-49 | 55 | 1.0 | 57 | 1.0 | 58 | 1.0 | 68 | 1.2 | 42 | 0.7 |
| 50+ | 23 | 0.4 | 25 | 0.4 | 25 | 0.4 | 26 | 0.4 | 21 | 0.3 |

Table E. 1 Past Month Stimulant Use (continued)

| Domains | FE Sample (2015+2016) |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample <br> Excluding GQ, AIAN <br> Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in $1,000 s$ ) | Percent | Total <br> (Numbers <br> in 1,000s) | Percent | Total (Numbers in $1,000 s$ ) | Percent | $\quad$ Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent |
| West South Central |  |  |  |  |  |  |  |  |  |  |
| 12+ | 169 | 0.5 | 171 | 0.5 | 171 | 0.5 | 178 | 0.6 | 159 | 0.5 |
| 12-17 | 17 | 0.5 | 18 | 0.6 a | 19 | 0.6 | 18 | 0.5 | 16 | 0.5 |
| 18+ | 152 | 0.5 | 152 | 0.5 | 152 | 0.5 | 160 | 0.6 | 143 | 0.5 |
| 18-25 | 81 | 1.9 | 84 | 1.9 | 80 | 1.8 | 85 | 1.9 | 78 | 1.8 |
| 26-49 | 49 | 0.4 | 53 | 0.4 a | 55 | 0.4 a | 46 | 0.4 | 52 | 0.4 |
| 50+ | 22 | 0.2 | 16 | 0.1 | 17 | 0.1 | 30 | 0.3 | 13 | 0.1 |
| Mountain |  |  |  |  |  |  |  |  |  |  |
| 12+ | 104 | 0.5 | 104 | 0.5 | 108 | 0.6 | 102 | 0.5 | 107 | 0.5 |
| 12-17 | 2 | 0.1 | 2 | 0.1 | 2 | 0.1 | 1 | 0.1 | 3 | 0.2 |
| 18+ | 102 | 0.6 | 102 | 0.6 | 106 | 0.6 | 101 | 0.6 | 104 | 0.6 |
| 18-25 | 47 | 1.8 | 47 | 1.8 | 50 | 1.9 | 52 | 2.0 | 43 | 1.7 |
| 26-49 | 55 | 0.8 | 55 | 0.8 | 56 | 0.8 | 49 | 0.7 | 60 | 0.8 |
| 50+ | * | * | * | * * | * | * * | * | * | * | * |
| Pacific |  |  |  |  |  |  |  |  |  |  |
| 12+ | 235 |  | 232 |  | 234 |  | 200 | 0.5 | 270 |  |
| 12-17 | 19 | 0.5 | 18 | 0.5 | 18 | 0.5 | 17 | 0.4 | 20 | 0.5 |
| 18+ | 217 | 0.5 | 214 | 0.5 | 216 | 0.5 | 183 | 0.5 | 250 | 0.6 |
| 18-25 | 76 | 1.3 | 75 | 1.3 | 77 | 1.3 | 59 | 1.0 | 93 | 1.6 |
| 26-49 | 118 | 0.7 | 116 | 0.7 | 117 | 0.7 | 111 | 0.7 | 125 | 0.7 |
| 50+ | 22 | 0.1 | 22 | 0.1 | 22 | 0.1 | 12 | 0.1 | 32 | 0.2 |
| Division by Hispanicity |  |  |  |  |  |  |  |  |  |  |
| New England |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 5 | 0.4 | 5 | 0.4 | 5 | 0.4 | 7 | 0.6 | 3 | 0.2 |
| Not Hispanic/Latino | 121 | 1.1 | 125 | 1.1 a | 122 | 1.1 | 118 | 1.0 | 123 | 1.1 |
| Middle Atlantic |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 26 | 0.5 | 26 | 0.5 | 25 | 0.5 | 24 | 0.5 | 27 | 0.5 |
| Not Hispanic/Latino | 187 | 0.6 | 186 | 0.6 | 184 | 0.6 | 164 | 0.5 | 211 | 0.7 |
| East North Central |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 20 | 0.7 | 20 | 0.7 | 20 | 0.7 | 20 | 0.7 | 20 | 0.7 |
| Not Hispanic/Latino | 255 | 0.7 | 255 | 0.7 | 256 | 0.7 | 279 | 0.8 | 231 | 0.6 |
| West North Central |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 8 | 0.8 | 9 | 0.9 | 9 | 0.9 | 8 | 0.9 | 7 | 0.8 |
| Not Hispanic/Latino | 109 | 0.7 | 105 | 0.6 | 108 | 0.7 | 86 | 0.5 | 132 | 0.8 |

Table E. 1 Past Month Stimulant Use (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (\mathbf{2 0 1 5 + 2 0 1 6}) \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in $1,000 s$ ) | Percent |
| South Atlantic |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 30 | 0.4 | 28 | 0.4 | 27 | 0.4 | 36 | 0.5 | 23 | 0.3 |
| Not Hispanic/Latino | 302 | 0.7 | 307 | 0.7 | 308 | 0.7 | 282 | 0.6 | 322 | 0.7 |
| East South Central |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 5 | 0.8 | 5 | 0.9 | 5 | 0.9 | * | * | 1 | 0.1 |
| Not Hispanic/Latino | 120 | 0.8 | 125 | 0.8 | 128 | 0.8 | 140 | 0.9 | 100 | 0.7 |
| West South Central |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 26 | 0.3 | 29 | 0.3 a | 33 | 0.4 a | 25 | 0.3 | 28 | 0.3 |
| Not Hispanic/Latino | 142 | 0.6 | 142 | 0.6 | 138 | 0.6 | 154 | 0.7 | 131 | 0.6 |
| Mountain |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 25 | 0.6 | 24 | 0.5 | 25 | 0.6 | 19 | 0.4 | 31 | 0.7 |
| Not Hispanic/Latino | 80 | 0.5 | 80 | 0.5 | 83 | 0.5 | 84 | 0.6 | 76 | 0.5 |
| Pacific |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 41 | 0.3 | 40 | 0.3 | 40 | 0.3 | 25 | 0.2 | 57 | 0.4 |
| Not Hispanic/Latino | 194 | 0.6 | 192 | 0.6 | 194 | 0.6 | 175 | 0.6 | 213 | 0.7 |
| Division by Race |  |  |  |  |  |  |  |  |  |  |
| New England |  |  |  |  |  |  |  |  |  |  |
| White Only | 115 | 1.1 | 116 | 1.1 | 114 | 1.1 | 116 | 1.1 | 113 | 1.0 |
| Black Only | 6 | 0.6 | 7 | 0.7 | 7 | 0.7 | 3 | 0.3 | 9 | 0.9 |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * * |
| Asian Only | 2 | 0.3 | 2 | 0.3 | 2 | 0.3 | 3 | 0.6 | * | * |
| AIAN Only | * | * | * | * * | * | * * | * | * | * | * |
| 2 or More Races | 3 | 1.5 | 5 | 2.3 | 4 | 1.9 | * | * | 5 | 2.1 |
| Middle Atlantic |  |  |  |  |  |  |  |  |  |  |
| White Only | 200 | 0.8 | 199 | 0.8 | 197 | 0.7 | 184 | 0.7 | 217 | 0.8 |
| Black Only | 3 | 0.1 | 3 | 0.1 | 3 | 0.1 | 3 | 0.1 | 3 | 0.1 |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * |
| Asian Only | 1 | 0.0 | 1 | 0.0 | 1 | 0.0 | 1 | 0.0 | 1 | 0.1 |
| AIAN Only | 0 | 0.2 | 0 | 0.2 | 0 | 0.2 | 1 | 0.2 | 0 | 0.2 |
| 2 or More Races | 8 | 1.3 | 9 | 1.4 | 9 | 1.4 | * | * | 17 | 2.6 |

Table E. 1 Past Month Stimulant Use (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (2015+2016) \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total <br> (Numbers <br> in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | $\quad$ Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent |
| East North Central |  |  |  |  |  |  |  |  |  |  |
| White Only | 249 | 0.8 | 252 | 0.8 | 253 | 0.8 | 277 | 0.9 | 220 | 0.7 |
| Black Only | 10 | 0.2 | 10 | 0.2 | 10 | 0.2 | 4 | 0.1 | 16 | 0.4 |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * * |
| Asian Only | 10 | 0.8 | 9 | 0.7 | 10 | 0.8 | 9 | 0.7 | 11 | 0.9 |
| AIAN Only | 1 | 0.2 | 1 | 0.2 | 0 | 0.2 | * | * | 1 | 0.5 * |
| 2 or More Races | 6 | 0.9 | 4 | 0.6 | 4 | 0.6 | 9 | 1.4 | 3 | 0.5 |
| West North Central |  |  |  |  |  |  |  |  |  |  |
| White Only | 103 | 0.7 | 101 | 0.7 | 101 | 0.7 | 76 | 0.5 | 131 | 0.9 |
| Black Only | 3 | 0.3 | 3 | 0.3 | 3 | 0.3 | 1 | 0.1 | * | * * |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * * |
| Asian Only | * | * | * | * * | * | * * | * | * | * | * * |
| AIAN Only | * | * | * | * * | * | * * | * | * | 2 | 0.7 * |
| 2 or More Races | 2 | 0.8 | 3 | 0.9 | 3 | 0.9 | 3 | 1.2 | 1 | 0.4 |
| South Atlantic |  |  |  |  |  |  |  |  |  |  |
| White Only | 296 | 0.8 | 299 | 0.8 | 298 | 0.8 | 293 | 0.8 | 300 | 0.8 |
| Black Only | 20 | 0.2 | 20 | 0.2 | 21 | 0.2 | 14 | 0.1 | 27 | 0.2 |
| NHOPI Only | 0 | 0.2 | * | * * | * | * | * | * | * | * * |
| Asian Only | 5 | 0.3 | 6 | 0.3 | 6 | 0.3 | 4 | 0.2 | 6 | 0.3 |
| AIAN Only | 1 | 0.2 | 1 | 0.2 | 1 | 0.2 | 1 | 0.3 | 0 | 0.1 |
| 2 or More Races | 9 | 1.0 | 9 | 1.0 | 10 | 1.1 | 6 | 0.7 | 11 | 1.2 |
| East South Central |  |  |  |  |  |  |  |  |  |  |
| White Only | 112 | 0.9 | 119 | 1.0 | 120 | 1.0 | 133 | 1.1 | 91 | 0.8 |
| Black Only | 6 | 0.2 | 7 | 0.2 a | 6 | 0.2 | 6 | 0.2 | 6 | 0.2 |
| NHOPI Only | , | * | * | * * | * | * * | * | * | * | * * |
| Asian Only | * | * | * | * * | * | * * | * | * | * | * * |
| AIAN Only | * | * | , | * * | * | * * | * | * | * | * * |
| 2 or More Races | * | * | * |  | * | * * | * | * | * | * * |

Table E. 1 Past Month Stimulant Use (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (2015+2016) \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in $1,000 s$ ) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in 1,000s) | Percent |
| West South Central |  |  |  |  |  |  |  |  |  |  |
| White Only | 157 | 0.6 | 159 | 0.6 | 160 | 0.6 | 168 | 0.7 | 147 | 0.6 |
| Black Only | 8 | 0.2 | 8 | 0.2 | 8 | 0.2 | 7 | 0.2 | 8 | 0.2 |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * |
| Asian Only | * | * | * | * * | * | * * | * | * | * | * |
| AIAN Only | 0 | 0.0 | * | * * | * | * * | 0 | 0.1 | * | * |
| 2 or More Races | 4 | 0.6 | 4 | 0.7 | 3 | 0.5 | 3 | 0.5 | 4 | 0.7 |
| Mountain |  |  |  |  |  |  |  |  |  |  |
| White Only | 93 | 0.5 | 92 | 0.5 | 95 | 0.6 | 96 | 0.6 | 89 | 0.5 |
| Black Only | 3 | 0.5 | 4 | 0.5 | 4 | 0.5 | * | * | 7 | 0.9 * |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * |
| Asian Only | 2 | 0.3 | 2 | 0.3 | 2 | 0.3 | * | * | 1 | 0.2 * |
| AIAN Only | 2 | 0.3 | 1 | 0.2 | 1 | 0.2 | 2 | 0.2 | 2 | 0.3 |
| 2 or More Races | 5 | 1.0 | * | * * | * | * | 2 | 0.5 | * | * |
| Pacific |  |  |  |  |  |  |  |  |  |  |
| White Only | 186 | 0.6 | 183 | 0.6 | 185 | 0.6 | 138 | 0.4 | 234 | 0.7 |
| Black Only | 2 | 0.1 | 2 | 0.1 | 2 | 0.1 | 2 | 0.1 | 3 | 0.1 |
| NHOPI Only | 5 | 0.8 | 5 | 0.8 | 5 | 0.8 | 8 | 1.8 | 2 | 0.2 |
| Asian Only | 17 | 0.3 | 17 | 0.3 | 18 | 0.3 | 27 | 0.4 | 8 | 0.1 |
| AIAN Only | 2 | 0.3 | 3 | 0.3 | 3 | 0.4 | 3 | 0.4 | 2 | 0.2 |
| 2 or More Races | 21 | 1.3 | 22 | 1.3 | 22 | 1.3 | 21 | 1.3 | 22 | 1.3 |
| County Type by Age Group |  |  |  |  |  |  |  |  |  |  |
| Large Metro |  |  |  |  |  |  |  |  |  |  |
| 12+ | 962 | 0.6 | 985 | 0.6 | 995 | 0.6 | 890 | 0.6 | 1,033 | 0.7 |
| 12-17 | 60 | 0.4 | 63 | 0.4 a | 65 | 0.4 | 64 | 0.5 | 56 | 0.4 |
| $18+$ | 902 | 0.7 | 922 | 0.7 | 930 | 0.7 | 826 | 0.6 | 977 | 0.7 |
| 18-25 | 394 | 2.0 | 403 | 2.1 | 409 | 2.1 | 381 | 2.0 | 406 | 2.1 |
| 26-49 | 439 | 0.7 | 447 | 0.7 | 450 | 0.7 | 399 | 0.7 | 479 | 0.8 |
| 50+ | 69 | 0.1 | 71 | 0.1 | 71 | 0.1 | 46 | 0.1 | 92 | 0.2 |

Table E. 1 Past Month Stimulant Use (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (2015+2016) \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total <br> (Numbers <br> in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total <br> (Numbers <br> in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent |
| Small Metro, pop 250,000-1,000,000 |  |  |  |  |  |  |  |  |  |  |
| 12+ | 362 | 0.7 | 362 | 0.6 | 350 | 0.6 | 349 | 0.6 | 375 | 0.7 |
| 12-17 | 25 | 0.5 | 26 | 0.5 | 25 | 0.5 | 28 | 0.5 | 23 | 0.4 |
| 18+ | 337 | 0.7 | 336 | 0.7 | 325 | 0.7 | 321 | 0.6 | 352 | 0.7 |
| 18-25 | 183 | 2.5 | 184 | 2.4 | 172 | 2.3 | 196 | 2.6 | 171 | 2.3 |
| 26-49 | 122 | 0.6 | 125 | 0.6 | 126 | 0.6 | 95 | 0.5 | 149 | 0.8 |
| 50+ | 31 | 0.1 | 27 | 0.1 | 27 | 0.1 | 30 | 0.1 | 32 | 0.1 |
| Small Metro, <250,000 population |  |  |  |  |  |  |  |  |  |  |
| 12+ | 185 | 0.7 | 186 | 0.7 | 189 | 0.8 | 181 | 0.7 | 189 | 0.7 |
| 12-17 | 10 | 0.5 | 10 | 0.5 | 11 | 0.5 | 14 | 0.6 | 6 | 0.3 |
| 18+ | 175 | 0.7 | 176 | 0.8 | 179 | 0.8 | 167 | 0.7 | 182 | 0.8 |
| 18-25 | 102 | 2.8 | 104 | 2.9 | 105 | 3.0 | 83 | 2.4 | 121 | 3.3 |
| 26-49 | 49 | 0.6 | 48 | 0.6 | 48 | 0.6 | 45 | 0.5 | 53 | 0.6 |
| 50+ | 24 | 0.2 | 25 | 0.2 | 25 | 0.2 | 40 | 0.4 | 8 | 0.1 |
| Nonmetro, 20,000 or more urban pop |  |  |  |  |  |  |  |  |  |  |
| $12+$ | 95 | 0.6 | 95 | 0.6 | 96 | 0.6 | 127 | 0.8 | 63 | 0.4 a |
| 12-17 | 5 | 0.3 | 3 | 0.2 | 3 | 0.2 | 5 | 0.3 | 4 | 0.3 |
| 18+ | 90 | 0.7 | 92 | 0.7 | 94 | 0.7 | 122 | 0.9 | 59 | 0.4 a |
| 18-25 | 48 | 2.4 | 50 | 2.6 a | 50 | 2.6 | 61 | 3.0 | 34 | 1.8 |
| 26-49 | 36 | 0.7 | 36 | 0.7 | 37 | 0.8 | 49 | 1.0 | 24 | 0.5 |
| 50+ | 6 | 0.1 | 6 | 0.1 | 6 | 0.1 | 12 | 0.2 | * | * * |
| Nonmetro, 2,500-19,999 urban pop |  |  |  |  |  |  |  |  |  |  |
| $12+$ | 81 | 0.4 | 67 | 0.4 | 70 | 0.4 | 102 | 0.6 | 59 | 0.3 |
| 12-17 | 4 | 0.3 | 4 | 0.3 | 4 | 0.3 | 6 | 0.4 | 2 | 0.1 |
| 18+ | 77 | 0.5 | 63 | 0.4 | 66 | 0.4 | 97 | 0.6 | 57 | 0.3 |
| 18-25 | 32 | 1.6 | 25 | 1.3 | 24 | 1.4 | 34 | 1.7 | 30 | 1.4 |
| 26-49 | 33 | 0.6 | 27 | 0.5 | 29 | 0.6 | 57 | 1.1 | 9 | 0.2 a |
| $50+$ | 12 | 0.1 | 12 | 0.1 | 13 | 0.2 | 6 | 0.1 | 17 | 0.2 |

Table E. 1 Past Month Stimulant Use (continued)

| Domains | FE Sample (2015+2016) |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in 1,000s) | Percent |
| Nonmetro, <2,500 urban pop |  |  |  |  |  |  |  |  |  |  |
| $12+$ | 10 | 0.2 | 9 | 0.3 | 10 | 0.3 | 4 | 0.1 | 17 | 0.4 |
| 12-17 | 0 | 0.1 | 0 | 0.1 | 1 | 0.2 | 0 | 0.1 | 1 | 0.2 |
| 18+ | 10 | 0.3 | 9 | 0.3 | 9 | 0.3 | 3 | 0.1 | 16 | 0.5 |
| 18-25 | 4 | 1.0 | 3 | 0.8 | 3 | 1.0 | 3 | 0.7 | 5 | 1.3 |
| 26-49 | 6 | 0.4 | 6 | 0.6 | 6 | 0.6 | 0 | 0.0 | * | * * |
| 50+ | * | * | * | * * | * | * * | * | * | * | * * |
| County Type by Hispanicity |  |  |  |  |  |  |  |  |  |  |
| Large Metro |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 102 | 0.3 | 104 | 0.3 | 108 | 0.4 | 100 | 0.3 | 103 | 0.3 |
| Not Hispanic/Latino | 860 | 0.7 | 881 | 0.7 | 887 | 0.7 | 791 | 0.7 | 930 | 0.8 |
| Small Metro, pop 250,000-1,000,000 |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 54 | 0.6 | 51 | 0.6 | 52 | 0.6 | 38 | 0.5 | 69 | 0.8 |
| Not Hispanic/Latino | 308 | 0.7 | 311 | 0.7 | 298 | 0.6 | 311 | 0.7 | 306 | 0.7 |
| Small Metro, $<250,000$ population |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 16 | 0.6 | 16 | 0.6 | 15 | 0.6 | 13 | 0.5 | 20 | 0.7 |
| Not Hispanic/Latino | 169 | 0.7 | 170 | 0.8 | 175 | 0.8 | 169 | 0.7 | 169 | 0.7 |
| Nonmetro, 20,000 or more urban pop |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 12 | 1.0 | 13 | 1.1 | 14 | 1.2 | 19 | 1.4 | 5 | 0.4 |
| Not Hispanic/Latino | 83 | 0.6 | 81 | 0.6 | 83 | 0.6 | 108 | 0.8 | 58 | 0.4 |
| Nonmetro, 2,500-19,999 urban pop |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | * | * * |
| Not Hispanic/Latino | 81 | 0.5 | 67 | 0.4 | 70 | 0.5 | 102 | 0.6 | 59 | 0.3 |
| Nonmetro, <2,500 urban pop |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | * | * | * | * * | * | * * | * | * | * | * * |
| Not Hispanic/Latino | 9 | 0.2 | 8 | 0.2 | 8 | 0.2 | 1 | 0.0 | 17 | 0.5 |
| County Type by Race |  |  |  |  |  |  |  |  |  |  |
| Large Metro |  |  |  |  |  |  |  |  |  |  |
| White Only | 846 | 0.8 | 866 | 0.8 | 876 | 0.8 | 786 | 0.7 | 907 | 0.8 |
| Black Only | 48 | 0.2 | 50 | 0.2 | 49 | 0.2 | 24 | 0.1 | 72 | 0.3 a |
| NHOPI Only | 1 | 0.2 | 2 | 0.2 | 1 | 0.2 | * | * | * | * * |
| Asian Only | 30 | 0.3 | 30 | 0.3 | 31 | 0.3 | 45 | 0.4 | 15 | 0.1 |
| AIAN Only | 4 | 0.2 | 3 | 0.2 | 4 | 0.2 | 3 | 0.2 | 4 | 0.3 |
| 2 or More Races | 32 | 1.1 | 34 | 1.1 | 33 | 1.1 | 29 | 1.0 | 35 | 1.2 |

Table E. 1 Past Month Stimulant Use (continued)

| Domains | FE Sample (2015+2016) |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent |
| Small Metro, pop 250,000-1,000,000 |  |  |  |  |  |  |  |  |  |  |
| White Only | 333 | 0.7 | 332 | 0.7 | 320 | 0.7 | 318 | 0.7 | 348 | 0.8 |
| Black Only | 6 | 0.1 | 6 | 0.1 | 6 | 0.1 | 10 | 0.2 | 2 | 0.0 |
| NHOPI Only | 3 | 1.0 | 4 | 1.2 | 4 | 1.2 | * | * | 1 | 0.2 |
| Asian Only | 2 | 0.1 | 3 | 0.1 | 2 | 0.1 | 1 | 0.1 | 4 | 0.2 |
| AIAN Only | 1 | 0.2 | 1 | 0.2 | 1 | 0.2 | 1 | 0.1 | 2 | 0.3 |
| 2 or More Races | 17 | 1.2 | 17 | 1.2 | 18 | 1.3 | 14 | 1.1 | 19 | 1.4 |
| Small Metro, <250,000 population |  |  |  |  |  |  |  |  |  |  |
| White Only | 164 | 0.8 | 165 | 0.8 | 166 | 0.8 | 170 | 0.8 | 159 | 0.7 |
| Black Only | 8 | 0.3 | 8 | 0.3 | 9 | 0.4 | 5 | 0.2 | 10 | 0.4 |
| NHOPI Only | * | * | , | * * | * | * * | * | * | * | * * |
| Asian Only | 4 | 0.7 | 4 | 0.7 | 4 | 0.7 | * | * | * | * * |
| AIAN Only | 0 | 0.1 | 1 | 0.2 | 1 | 0.3 | 0 | 0.1 | 0 | 0.1 |
| 2 or More Races | 8 | 1.6 | 8 | 1.8 a | 9 | 2.0 a | 5 | 1.2 | 10 | 2.0 |
| Nonmetro, 20,000 or more urban pop |  |  |  |  |  |  |  |  |  |  |
| White Only | 90 | 0.7 | 90 | 0.7 | 92 | 0.7 | 122 | 0.9 | 58 | 0.4 a |
| Black Only | * | * | * | * * | * | * * | * | * | , | * * |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * * |
| Asian Only | 0 | 0.2 | 0 | 0.2 | 0 | 0.2 | 1 | 0.3 | * | * * |
| AIAN Only | 1 | 0.5 | 1 | 0.3 | 1 | 0.4 | 2 | 0.9 | 1 | 0.2 |
| 2 or More Races | 3 | 0.8 | 3 | 1.0 | 3 | 1.0 | 1 | 0.3 | 4 | 1.6 |
| Nonmetro, 2,500-19,999 urban pop |  |  |  |  |  |  |  |  |  |  |
| White Only | 69 | 0.4 | 60 | 0.4 | 62 | 0.4 | 81 | 0.6 | 58 | 0.3 |
| Black Only | * | * | * | * * | * | * * | * | * | * | * * |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * * |
| Asian Only | * | * | * | * * | * | * * | * | * | * | * * |
| AIAN Only | * | * | * | * * | * | * * | * | * | * | * * |
| 2 or More Races | 3 | 1.0 | 1 | 0.4 | * | * * | * | * | 1 | 0.3 * |

Table E. 1 Past Month Stimulant Use (continued)

| Domains | FE Sample (2015+2016) |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in 1,000s) | Percent |
| Nonmetro, $<2,500$ urban pop |  |  |  |  |  |  |  |  |  |  |
| White Only | 9 | 0.2 | 8 | 0.2 | 8 | 0.3 | 4 | 0.1 | 14 | 0.4 |
| Black Only | * | * | * | * * | * | * * | * | * | * | * * |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * * |
| Asian Only | * | * | * | * * | * | * * | * | * | * | * * |
| AIAN Only | 0 | 0.2 | * | * * | * | * * | * | * | * | * * |
| 2 or More Races | * | * | * | * * | * | * * | * | * | * | * * |
| College Enrollment by Gender |  |  |  |  |  |  |  |  |  |  |
| Persons Aged 18 to $22^{1}$ |  |  |  |  |  |  |  |  |  |  |
| Male | 272 | 2.5 | 276 | 2.5 | 268 | 2.5 | 280 | 2.6 | 263 | 2.4 |
| Female | 265 | 2.6 | 263 | 2.5 | 254 | 2.5 | 255 | 2.4 | 275 | 2.7 |
| Full-Time College Students |  |  |  |  |  |  |  |  |  |  |
| Male | 136 | 3.7 | 139 | 3.7 | 129 | 3.7 | 148 | 4.0 | 124 | 3.4 |
| Female | 145 | 3.4 | 144 | 3.4 | 134 | 3.3 | 141 | 3.4 | 150 | 3.4 |
| Other Persons Aged 18 to $22^{2}$ |  |  |  |  |  |  |  |  |  |  |
| Male | 136 | 1.9 | 137 | 1.9 | 139 | 1.9 | 132 | 1.9 | 140 | 1.9 |
| Female | 119 | 2.0 | 119 | 2.0 | 121 | 2.0 | 114 | 1.8 | 125 | 2.1 |
| Age Group by Gender |  |  |  |  |  |  |  |  |  |  |
| 12+ |  |  |  |  |  |  |  |  |  |  |
| Male | 879 | 0.7 | 894 | 0.7 | 899 | 0.7 | 877 | 0.7 | 881 | 0.7 |
| Female | 815 | 0.6 | 809 | 0.6 | 811 | 0.6 | 776 | 0.6 | 854 | 0.6 |
| 12-17 |  |  |  |  |  |  |  |  |  |  |
| Male | 53 | 0.4 | 55 | 0.4 | 57 | 0.4 | 61 | 0.5 | 46 | 0.4 |
| Female | 51 | 0.4 | 51 | 0.4 | 51 | 0.4 | 56 | 0.5 | 46 | 0.4 |
| 18+ |  |  |  |  |  |  |  |  |  |  |
| Male | 826 | 0.7 | 840 | 0.7 | 842 | 0.7 | 816 | 0.7 | 836 | 0.7 |
| Female | 764 | 0.6 | 758 | 0.6 | 760 | 0.6 | 720 | 0.6 | 808 | 0.6 |
| 18-25 |  |  |  |  |  |  |  |  |  |  |
| Male | 399 | 2.3 | 405 | 2.3 | 402 | 2.3 | 403 | 2.3 | 394 | 2.3 |
| Female | 363 | 2.1 | 364 | 2.1 | 361 | 2.1 | 354 | 2.0 | 372 | 2.2 |
| 26-49 |  |  |  |  |  |  |  |  |  |  |
| Male | 379 | 0.8 | 384 | 0.8 | 387 | 0.8 | 371 | 0.8 | 386 | 0.8 |
| Female | 307 | 0.6 | 304 | 0.6 | 310 | 0.6 | 273 | 0.5 | 341 | 0.7 |

Table E. 1 Past Month Stimulant Use (continued)

| Domains | FE Sample$(2015+2016)$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0}$ s) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in 1,000s) | Percent |
| 50+ |  |  |  |  |  |  |  |  |  |  |
| Male | 49 | 0.1 | 51 | 0.1 | 53 | 0.1 a | 42 | 0.1 | 55 | 0.1 |
| Female | 93 | 0.2 | 90 | 0.2 | 90 | 0.2 | 92 | 0.2 | 95 | 0.2 |
| Age Group by Race 12+ |  |  |  |  |  |  |  |  |  |  |
| White Only | 1,512 | 0.7 | 1,521 | 0.7 | 1,523 | 0.7 | 1,481 | 0.7 | 1,543 | 0.7 |
| Black Only | 61 | 0.2 | 64 | 0.2 a | 64 | 0.2 a | 39 | 0.1 | 83 | 0.2 |
| NHOPI Only | 6 | 0.4 | 6 | 0.5 | 6 | 0.5 | 9 | 0.8 | 2 | 0.1 |
| Asian Only | 37 | 0.3 | 37 | 0.3 | 37 | 0.3 | 47 | 0.3 | 28 | 0.2 |
| AIAN Only | 15 | 0.5 | 12 | 0.4 | 15 | 0.5 | 22 | 0.7 | 7 | 0.2 |
| 2 or More Races | 64 | 1.1 | 64 | 1.1 | 65 | 1.2 | 55 | 1.0 | 72 | 1.3 |
| 12-17 |  |  |  |  |  |  |  |  |  |  |
| White Only | 88 | 0.5 | 88 | 0.5 | 90 | 0.5 | 100 | 0.5 | 75 | 0.4 |
| Black Only | 4 | 0.1 | 4 | 0.1 | 4 | 0.1 | 1 | 0.0 | 6 | 0.2 |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * * |
| Asian Only | 4 | 0.3 | 4 | 0.3 | 4 | 0.3 | 5 | 0.4 | 2 | 0.2 |
| AIAN Only | 1 | 0.2 | 1 | 0.2 | 2 | 0.4 | 1 | 0.2 | 1 | 0.2 |
| 2 or More Races | 6 | 0.7 | 6 | 0.7 | 6 | 0.7 | 5 | 0.5 | 8 | 0.8 |
| 18+ |  |  |  |  |  |  |  |  |  |  |
| White Only | 1,424 | 0.7 | 1,432 | 0.7 | 1,433 | 0.7 | 1,380 | 0.7 | 1,468 | 0.8 |
| Black Only | 57 | 0.2 | 60 | 0.2 a | 60 | 0.2 a | 38 | 0.1 | 77 | 0.3 |
| NHOPI Only | 3 | 0.3 | 4 | 0.3 | 4 | 0.4 | 5 | 0.5 | 2 | 0.2 |
| Asian Only | 33 | 0.2 | 33 | 0.2 | 33 | 0.2 | 42 | 0.3 | 25 | 0.2 |
| AIAN Only | 14 | 0.5 | 11 | 0.4 | 14 | 0.5 | 21 | 0.8 | 6 | 0.2 |
| 2 or More Races | 58 | 1.2 | 57 | 1.2 | 58 | 1.3 | 51 | 1.1 | 65 | 1.4 |
| 18-25 |  |  |  |  |  |  |  |  |  |  |
| White Only | 684 | 2.7 | 689 | 2.7 | 683 | 2.7 | 681 | 2.7 | 686 | 2.7 |
| Black Only | 33 | 0.6 | 34 | 0.6 a | 34 | 0.6 a | 30 | 0.6 | 36 | 0.7 |
| NHOPI Only | 2 | 0.8 | 2 | 0.9 | 2 | 0.9 | * | * | * | * * |
| Asian Only | 20 | 0.9 | 19 | 0.9 | 19 | 0.9 | 20 | 1.0 | 20 | 0.9 |
| AIAN Only | 3 | 0.7 | 2 | 0.4 | 2 | 0.4 | 5 | 0.9 | 2 | 0.4 |
| 2 or More Races | 21 | 2.2 | 22 | 2.3 | 22 | 2.3 | 18 | 1.8 | 24 | 2.6 |

Table E. 1 Past Month Stimulant Use (continued)

| Domains | FE Sample (2015+2016) |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in 1,000s) | Percent |
| 26-49 |  |  |  |  |  |  |  |  |  |  |
| White Only | 604 | 0.8 | 609 | 0.8 | 613 | 0.8 | 565 | 0.8 | 644 | 0.9 |
| Black Only | 19 | 0.1 | 20 | 0.1 | 20 | 0.2 a | 8 | 0.1 | 30 | 0.2 |
| NHOPI Only | 2 | 0.3 | 2 | 0.4 | 2 | 0.4 | 1 | 0.2 | 2 | 0.4 |
| Asian Only | 14 | 0.2 | 14 | 0.2 | 14 | 0.2 | 22 | 0.3 | 6 | 0.1 |
| AIAN Only | 10 | 0.8 | 9 | 0.7 | 11 | 0.8 | * | * | 4 | 0.3 * |
| 2 or More Races | 37 | 1.9 | 35 | 1.8 | 36 | 1.9 | 33 | 1.8 | 41 | 2.1 |
| $50+$ |  |  |  |  |  |  |  |  |  |  |
| White Only | 136 | 0.2 | 135 | 0.1 | 137 | 0.2 | 134 | 0.1 | 138 | 0.2 |
| Black Only | 6 | 0.0 | 6 | 0.0 | 6 | 0.0 | * | * | 12 | 0.1 * |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * * |
| Asian Only | * | * | * | * * | * | * * | * | * | * | * * |
| AIAN Only | * | * | * | * * | * | * * | * | * | * | * * |
| 2 or More Races | * | * | * | * * | * | * * | * | * | * | * * |
| Age Group by Hispanicity |  |  |  |  |  |  |  |  |  |  |
| 12+ |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 184 | 0.4 | 186 | 0.4 | 190 | 0.4 | 172 | 0.4 | 197 | 0.4 |
| Not Hispanic/Latino | 1,510 | 0.7 | 1,517 | 0.7 | 1,521 | 0.7 | 1,481 | 0.7 | 1,539 | 0.7 |
| 12-17 |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 19 | 0.3 | 19 | 0.3 | 21 | 0.4 | 18 | 0.3 | 19 | 0.3 |
| Not Hispanic/Latino | 86 | 0.5 | 86 | 0.5 | 87 | 0.5 | 99 | 0.5 | 73 | 0.4 |
| 18+ |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 166 | 0.4 | 167 | 0.4 | 168 | 0.4 | 154 | 0.4 | 178 | 0.5 |
| Not Hispanic/Latino | 1,424 | 0.7 | 1,431 | 0.7 | 1,434 | 0.7 | 1,382 | 0.7 | 1,465 | 0.7 |
| 18-25 |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 97 | 1.3 | 96 | 1.3 | 97 | 1.3 | 107 | 1.4 | 86 | 1.1 |
| Not Hispanic/Latino | 665 | 2.4 | 672 | 2.5 | 666 | 2.4 | 650 | 2.4 | 681 | 2.5 |
| 26-49 |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 69 | 0.4 | 71 | 0.4 | 71 | 0.4 | 47 | 0.2 | 92 | 0.5 |
| Not Hispanic/Latino | 616 | 0.8 | 617 | 0.8 | 625 | 0.8 | 598 | 0.8 | 634 | 0.8 |
| $50+$ |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | * | * | * | * * | * | * * | * | * | * | * * |
| Not Hispanic/Latino | 142 | 0.1 | 141 | 0.1 | 143 | 0.1 | 134 | 0.1 | 150 | 0.2 |

Table E. 1 Past Month Stimulant Use (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (2015+2016) \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample <br> Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent |
| Pregnancy by Age Group |  |  |  |  |  |  |  |  |  |  |
| Female Aged 15-44 ${ }^{3}$ |  |  |  |  |  |  |  |  |  |  |
| 15-17 | 46 | 0.7 | 46 | 0.7 | 46 | 0.7 | 55 | 0.9 | 36 | 0.6 |
| 18-25 | 360 | 2.1 | 361 | 2.1 | 357 | 2.1 | 349 | 2.0 | 371 | 2.2 |
| 26-44 | 255 | 0.6 | 258 | 0.6 | 262 | 0.7 | 216 | 0.5 | 293 | 0.7 |
| Pregnant Female Aged 15-44 |  |  |  |  |  |  |  |  |  |  |
| 15-17 | * | * | * | * * | * | * * | * | * | * | * * |
| 18-25 | 1 | 0.2 | 2 | 0.2 | 2 | 0.2 | 2 | 0.3 | 1 | 0.1 |
| 26-44 | 1 | 0.0 | 1 | 0.0 | 1 | 0.1 | 1 | 0.0 | 1 | 0.0 |
| Not Pregnant Female Aged 15-44 |  |  |  |  |  |  |  |  |  |  |
| 15-17 | 46 | 0.7 | 46 | 0.7 | 46 | 0.7 | 55 | 0.9 | 36 | 0.6 |
| 18-25 | 359 | 2.2 | 359 | 2.2 | 356 | 2.2 | 347 | 2.1 | 371 | 2.3 |
| 26-44 | 254 | 0.7 | 257 | 0.7 | 261 | 0.7 | 215 | 0.6 | 293 | 0.8 |
| Pregnancy by Race |  |  |  |  |  |  |  |  |  |  |
| Female Aged 15-44 ${ }^{3}$ |  |  |  |  |  |  |  |  |  |  |
| White Only | 584 | 1.3 | 587 | 1.3 | 586 | 1.3 | 547 | 1.2 | 622 | 1.3 |
| Black Only | 21 | 0.2 | 22 | 0.2 | 22 | 0.2 | 14 | 0.1 | 28 | 0.3 |
| NHOPI Only | 5 | 1.2 | 5 | 1.4 | 5 | 1.4 | 8 | 2.3 | * | * * |
| Asian Only | 15 | 0.3 | 15 | 0.3 | 15 | 0.4 | 20 | 0.5 | 11 | 0.2 |
| AIAN Only | 10 | 1.2 | 8 | 0.9 | 11 | 1.1 | * | * | 3 | 0.4 * |
| 2 or More Races | 25 | 1.6 | 26 | 1.7 | 26 | 1.7 | 14 | 0.9 | 36 | 2.3 |
|  |  |  |  |  |  |  |  |  |  |  |
| White Only | 2 | 0.1 | 2 | 0.1 | 3 | 0.2 | 3 | 0.2 | 1 | 0.1 |
| Black Only | * | * | * | * * | * | * * | * | * | * | * * |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * * |
| Asian Only | * | * | * | * * | * | * * | * | * | * | * * |
| AIAN Only | * | * | * | * * | * | * * | * | * | * | * * |
| 2 or More Races | * | * | * |  | * | * * | * | * | * | * * |

Table E. 1 Past Month Stimulant Use (continued)

| Domains | FE Sample$(2015+2016)$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent |
| Not Pregnant Female Aged 15-44 |  |  |  |  |  |  |  |  |  |  |
| White Only | 582 | 1.3 | 585 | 1.3 | 583 | 1.3 | 544 | 1.2 | 621 | 1.4 |
| Black Only | 21 | 0.2 | 22 | 0.2 | 22 | 0.2 | 14 | 0.2 | 28 | 0.3 |
| NHOPI Only | 5 | 1.3 | 5 | 1.4 | 5 | 1.5 | 8 | 2.4 | * | * * |
| Asian Only | 15 | 0.4 | 15 | 0.4 | 15 | 0.4 | 20 | 0.5 | 11 | 0.2 |
| AIAN Only | 10 | 1.3 | 8 | 1.0 | 11 | 1.2 | * | * | 3 | 0.4 * |
| 2 or More Races | 25 | 1.7 | 26 | 1.8 | 26 | 1.7 | 14 | 1.0 | 36 | 2.4 |
| Pregnancy by Hispanicity |  |  |  |  |  |  |  |  |  |  |
| Female Aged 15-44 ${ }^{3}$ |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 81 | 0.6 | 80 | 0.6 | 83 | 0.6 | 67 | 0.5 | 94 | 0.7 |
| Not Hispanic/Latino | 580 | 1.2 | 583 | 1.2 | 582 | 1.2 | 554 | 1.1 | 607 | 1.2 |
| Pregnant Female Aged 15-44 |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 1 | 0.2 | 1 | 0.3 | 1 | 0.3 | * | * | * | * * |
| Not Hispanic/Latino | 1 | 0.1 | 1 | 0.1 | 1 | 0.1 | 1 | 0.0 | 1 | 0.1 |
| Not Pregnant Female Aged 15-44 |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 79 | 0.6 | 79 | 0.6 | 82 | 0.7 | 64 | 0.5 | 94 | 0.8 |
| Not Hispanic/Latino | 579 | 1.2 | 582 | 1.2 | 581 | 1.2 | 553 | 1.1 | 606 | 1.2 |

* = low precision; -- = not available; AIAN = American Indian or Alaska Native; $\mathrm{FE}=$ field enumeration; $\mathrm{GQ}=$ group quarters; NHOPI $=$ Native Hawaiian or Other Pacific Islander; pop = population.
${ }^{1}$ Excludes those with unknown enrollment status.
${ }^{2}$ Other Persons include respondents aged 18 to 22 not enrolled in school, enrolled in college part time, enrolled in other grades either full or part time, or enrolled with no other information available.
${ }^{3}$ Excludes those with unknown pregnancy status.
${ }^{a}$ The difference between this estimate and the person sample estimate is statistically significant at the .05 level.

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## Appendix F: 2015-2016 NSDUH - Weighted Annual Averages Past Year Serious Mental Illness (SMI) (Aged 18 or Older) - SMIYR_U

Table F. 1 Past Year Serious Mental Illness (SMI)

| Domains | $\begin{gathered} \text { FE Sample } \\ (2015+2016) \\ \hline \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in 1,000s) | Percent |
| Age Group |  |  |  |  |  |  |  |  |  |  |
| 12+ | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 12-17 | -- | -- | -- | -- -- | -- | -- | -- | -- | -- | -- -- |
| 18+ | 10,063 | 4.1 | 10,040 | 4.1 | 10,035 | 4.1 | 9,765 | 4.0 | 10,360 | 4.2 |
| 18-25 | 1,895 | 5.5 | 1,894 | 5.5 | 1,895 | 5.5 | 1,756 | 5.0 | 2,035 | 5.9 a |
| 26-49 | 5,087 | 5.1 | 5,063 | 5.1 | 5,058 | 5.1 | 4,896 | 5.0 | 5,279 | 5.3 |
| 50+ | 3,080 | 2.8 | 3,083 | 2.8 | 3,081 | 2.8 | 3,113 | 2.8 | 3,047 | 2.7 |
| Gender |  |  |  |  |  |  |  |  |  |  |
| Male | 3,526 | 3.0 | 3,576 | 3.0 | 3,527 | 3.0 | 3,464 | 3.0 | 3,588 | 3.0 |
| Female | 6,537 | 5.2 | 6,465 | 5.1 | 6,507 | 5.2 | 6,301 | 5.0 | 6,772 | 5.3 |
| Hispanicity |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 1,250 | 3.3 | 1,217 | 3.2 | 1,171 | 3.1 a | 1,114 | 2.9 | 1,386 | 3.6 |
| Not Hispanic/Latino | 8,813 | 4.3 | 8,824 | 4.3 | 8,864 | 4.3 | 8,651 | 4.2 | 8,975 | 4.4 |
| Race |  |  |  |  |  |  |  |  |  |  |
| White Only | 8,404 | 4.4 | 8,377 | 4.4 | 8,353 | 4.4 | 8,116 | 4.3 | 8,693 | 4.5 |
| Black Only | 932 | 3.1 | 923 | 3.0 | 928 | 3.1 | 884 | 2.9 | 979 | 3.2 |
| NHOPI Only | 24 | 2.1 | 23 | 2.0 | 22 | 2.0 | 17 | 1.9 | 31 | 2.2 |
| Asian Only | 228 | 1.7 | 226 | 1.7 | 223 | 1.7 | 241 | 1.8 | 215 | 1.6 |
| AIAN Only | 107 | 3.8 | 109 | 3.9 | 128 | 4.6 | 113 | 4.1 | 101 | 3.6 |
| 2 or More Races | 368 | 8.0 | 382 | 8.3 | 381 | 8.2 | 394 | 8.7 | 342 | 7.3 |
| Division |  |  |  |  |  |  |  |  |  |  |
| New England | 491 | 4.2 | 495 | 4.3 | 484 | 4.2 | 494 | 4.3 | 487 | 4.2 |
| Middle Atlantic | 1,251 | 3.9 | 1,243 | 3.9 | 1,232 | 3.8 | 1,222 | 3.8 | 1,279 | 4.0 |
| East North Central | 1,567 | 4.4 | 1,586 | 4.5 | 1,585 | 4.5 | 1,542 | 4.3 | 1,592 | 4.5 |
| West North Central | 600 | 3.8 | 627 | 4.0 | 629 | 4.0 | 584 | 3.7 | 616 | 3.9 |
| South Atlantic | 2,010 | 4.1 | 1,989 | 4.1 | 1,983 | 4.1 | 1,950 | 4.0 | 2,071 | 4.2 |
| East South Central | 655 | 4.6 | 627 | 4.4 | 636 | 4.5 | 622 | 4.4 | 689 | 4.8 |
| West South Central | 1,009 | 3.5 | 1,005 | 3.5 | 1,023 | 3.6 | 1,033 | 3.6 | 985 | 3.4 |
| Mountain | 889 | 5.1 | 911 | 5.2 a | 909 | 5.2 | 869 | 5.0 | 910 | 5.1 |
| Pacific | 1,591 | 4.0 | 1,558 | 3.9 | 1,552 | 3.9 | 1,450 | 3.7 | 1,732 | 4.3 |

Table F. 1 Past Year Serious Mental IIIness (SMI) (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (\mathbf{2 0 1 5 + 2 0 1 6 )} \\ \hline \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent |
| County Type |  |  |  |  |  |  |  |  |  |  |
| Large Metro | 5,278 | 3.9 | 5,390 | 3.9 | 5,445 | 3.9 | 5,108 | 3.8 | 5,448 | 4.0 |
| Small Metro, pop 250,000-1,000,000 | 2,266 | 4.5 | 2,268 | 4.5 | 2,220 | 4.5 | 2,108 | 4.2 | 2,423 | 4.8 |
| Small Metro, <250,000 population | 977 | 4.2 | 964 | 4.2 | 973 | 4.2 | 968 | 4.1 | 987 | 4.2 |
| Nonmetro, 20,000 or more urban pop | 667 | 4.8 | 650 | 4.8 | 646 | 4.8 | 756 | 5.5 | 578 | 4.2 |
| Nonmetro, 2,500-19,999 urban pop | 733 | 4.4 | 654 | 4.3 | 636 | 4.3 | 667 | 4.3 | 799 | 4.5 |
| Nonmetro, <2,500 urban pop | 142 | 3.8 | 114 | 3.6 | 114 | 3.6 | 158 | 3.8 | 126 | 3.7 |
| College Enrollment |  |  |  |  |  |  |  |  |  |  |
| Persons Aged 18 to $22^{1}$ | 1,168 | 5.5 | 1,165 | 5.5 | 1,145 | 5.5 | 1,055 | 5.0 | 1,282 | 6.1 a |
| Full-Time College Students | 420 | 5.3 | 418 | 5.2 | 382 | 5.1 | 345 | 4.4 | 495 | 6.2 a |
| Other Persons Aged 18 to $22^{2}$ | 749 | 5.7 | 746 | 5.7 | 763 | 5.7 | 710 | 5.3 | 787 | 6.0 |
| Pregnancy |  |  |  |  |  |  |  |  |  |  |
| Female Aged 18-44 ${ }^{3}$ | 3,852 | 6.8 | 3,826 | 6.7 | 3,863 | 6.8 | 3,640 | 6.4 | 4,065 | 7.1 a |
| Pregnant Female Aged 18-44 | 93 | 4.1 | 97 | 4.3 a | 96 | 4.2 | 70 | 3.1 | 115 | 5.2 |
| Not Pregnant Female Aged 18-44 | 3,760 | 6.9 | 3,730 | 6.8 | 3,767 | 6.9 | 3,569 | 6.6 | 3,950 | 7.2 |
| Division by Age Group |  |  |  |  |  |  |  |  |  |  |
| New England |  |  |  |  |  |  |  |  |  |  |
| 12+ | -- | -- | -- | -- | -- | 侕 | -- | -- | -- | -- -- |
| 12-17 | -- | -- | -- | -- -- | -- | - | -- | -- | -- | -- -- |
| 18+ | 491 | 4.2 | 495 | 4.3 | 484 | 4.2 | 494 | 4.3 | 487 | 4.2 |
| 18-25 | 103 | 6.3 | 100 | 6.1 | 99 | 6.0 | 82 | 5.0 | 124 | 7.5 |
| 26-49 | 245 | 5.5 | 250 | 5.6 | 243 | 5.5 | 255 | 5.7 | 236 | 5.3 |
| 50+ | 142 | 2.6 | 145 | 2.6 | 143 | 2.6 | 157 | 2.9 | 127 | 2.3 |
| Middle Atlantic |  |  |  |  |  |  |  |  |  |  |
| 12+ | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 12-17 | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- |
| 18+ | 1,251 | 3.9 | 1,243 | 3.9 | 1,232 | 3.8 | 1,222 | 3.8 | 1,279 | 4.0 |
| 18-25 | 240 | 5.4 | 239 | 5.4 | 240 | 5.4 | 225 | 5.0 | 255 | 5.8 |
| 26-49 | 622 | 4.8 | 617 | 4.8 | 604 | 4.7 | 606 | 4.7 | 637 | 5.0 |
| 50+ | 389 | 2.6 | 388 | 2.6 | 388 | 2.6 | 391 | 2.6 | 387 | 2.6 |

Table F. 1 Past Year Serious Mental IIIness (SMI) (continued)


Table F. 1 Past Year Serious Mental IIIness (SMI) (continued)


Table F. 1 Past Year Serious Mental IIIness (SMI) (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (\mathbf{2 0 1 5 + 2 0 1 6 )} \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample <br> Excluding GQ, AIAN <br> Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000 s) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in 1,000 s) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in 1,000 s) | Percent |
| West North Central |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 19 | 2.5 | 16 | 2.0 | 16 | 2.0 | 15 | 1.9 | 24 | 3.0 |
| Not Hispanic/Latino | 580 | 3.9 | 611 | 4.1 | 614 | 4.1 | 569 | 3.8 | 592 | 3.9 |
| South Atlantic |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 146 | 2.4 | 150 | 2.5 | 139 | 2.3 | 148 | 2.5 | 144 | 2.3 |
| Not Hispanic/Latino | 1,864 | 4.4 | 1,838 | 4.3 | 1,844 | 4.4 | 1,802 | 4.3 | 1,927 | 4.5 |
| East South Central |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 27 | 5.7 | 16 | 3.4 | 17 | 3.7 | * | * | * | * |
| Not Hispanic/Latino | 628 | 4.6 | 611 | 4.4 | 619 | 4.5 | 600 | 4.4 | 657 | 4.8 |
| West South Central |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 175 | 2.3 | 179 | 2.4 | 168 | 2.2 | 182 | 2.4 | 168 | 2.2 |
| Not Hispanic/Latino | 834 | 4.0 | 826 | 4.0 | 855 | 4.1 | 851 | 4.1 | 817 | 3.9 |
| Mountain |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 148 | 3.9 | 160 | 4.2 | 154 | 4.0 | 128 | 3.4 | 168 | 4.4 |
| Not Hispanic/Latino | 741 | 5.4 | 751 | 5.5 | 755 | 5.5 | 741 | 5.4 | 741 | 5.3 |
| Pacific |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 393 | 3.5 | 360 | 3.2 | 356 | 3.1 | 309 | 2.7 | 478 | 4.2 |
| Not Hispanic/Latino | 1,197 | 4.2 | 1,197 | 4.2 | 1,197 | 4.2 | 1,141 | 4.0 | 1,254 | 4.4 |
| Division by Race |  |  |  |  |  |  |  |  |  |  |
| New England |  |  |  |  |  |  |  |  |  |  |
| White Only | 423 | 4.2 | 424 | 4.3 | 415 | 4.2 | 446 | 4.5 | 400 | 4.0 |
| Black Only | 31 | 3.8 | 33 | 4.1 | 33 | 4.1 | 12 | 1.5 | 50 | 6.1 a |
| NHOPI Only | * | * | , | * | * | * * | , | * | * | * * |
| Asian Only | 11 | 2.2 | 10 | 2.0 | 11 | 2.3 | * | * | * | * |
| AIAN Only | * | * | * | * * | * | * * | * | * | * | * * |
| 2 or More Races | 19 | 9.8 | 22 | 11.2 | 20 | 10.3 | * | * | 9 | 4.3 * |
| Middle Atlantic |  |  |  |  |  |  |  |  |  |  |
| White Only | 1,051 | 4.3 | 1,048 | 4.3 | 1,035 | 4.2 | 994 | 4.1 | 1,109 | 4.6 |
| Black Only | 131 | 2.9 | 132 | 2.9 | 133 | 2.9 | 139 | 3.0 | 123 | 2.7 |
| NHOPI Only | 3 | 2.9 | 3 | 2.8 | 3 | 2.8 | * | * | * | * |
| Asian Only | 29 | 1.3 | 25 | 1.1 | 25 | 1.1 | 40 | 1.7 | 18 | 0.8 |
| AIAN Only | 5 | 2.1 | 5 | 2.3 | 5 | 2.3 | 4 | 2.0 | 5 | 2.3 |
| 2 or More Races | 31 | 6.0 | 31 | 6.0 | 30 | 5.9 | 41 | 8.2 | 21 | 4.0 |

Table F. 1 Past Year Serious Mental IIIness (SMI) (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (2015+2016) \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in 1,000s) | Percent |
| East North Central |  |  |  |  |  |  |  |  |  |  |
| White Only | 1,357 | 4.6 | 1,369 | 4.6 | 1,370 | 4.6 | 1,323 | 4.5 | 1,391 | 4.7 |
| Black Only | 129 | 3.2 | 125 | 3.1 | 124 | 3.0 | 146 | 3.6 | 112 | 2.7 |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * |
| Asian Only | 32 | 2.8 | 37 | 3.2 | 36 | 3.1 | 27 | 2.3 | * | * |
| AIAN Only | * | * | * | * * | * | * * | * | * | 9 | 4.9 |
| 2 or More Races | 34 | 6.9 | 41 | 8.2 | 41 | 8.2 | 26 | 5.4 | 42 | 8.3 |
| West North Central |  |  |  |  |  |  |  |  |  |  |
| White Only | 516 | 3.7 | 524 | 3.8 | 530 | 3.8 | 481 | 3.4 | 550 | 3.9 |
| Black Only | 39 | 4.0 | 47 | 4.8 | 46 | 4.6 | 44 | 4.5 | 34 | 3.4 |
| NHOPI Only |  | * | * | * * | * | * * | * | * | * | * |
| Asian Only | 10 | 2.3 | 9 | 2.3 | 8 | 1.9 | * | * | 6 | 1.4 * |
| AIAN Only | * | * | * | * * | * | * * | * | * | * | * |
| 2 or More Races | 19 | 7.6 | * | * | * | * | * | * | 14 | 5.6 * |
| South Atlantic |  |  |  |  |  |  |  |  |  |  |
| White Only | 1,598 | 4.5 | 1,597 | 4.5 | 1,594 | 4.5 | 1,621 | 4.6 | 1,575 | 4.4 |
| Black Only | 314 | 3.0 | 302 | 2.9 | 300 | 2.9 | 261 | 2.6 | 368 | 3.5 |
| NHOPI Only | * | * | * | * * | * | * | * | * | * | * * |
| Asian Only | 34 | 2.0 | 35 | 2.1 | 33 | 2.0 | 22 | 1.4 | 45 | 2.6 |
| AIAN Only | 5 | 1.6 | * | * * | * | * * | 2 | 0.8 | * | * |
| 2 or More Races | 59 | 7.7 | 44 | 5.8 | 45 | 5.8 | 43 | 5.6 | 76 | 9.9 |
| East South Central |  |  |  |  |  |  |  |  |  |  |
| White Only | 568 | 5.2 | 542 | 4.9 | 543 | 4.9 | 531 | 4.8 | 606 | 5.5 |
| Black Only | 74 | 2.7 | 71 | 2.6 | 79 | 2.8 | 71 | 2.5 | 78 | 2.8 |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * * |
| Asian Only | * | * | * | * * | * | * * | * | * | * | * * |
| AIAN Only | * | * | * | * * | * | * * | * | * | * | * * |
| 2 or More Races | 4 | 2.5 | 5 | 2.9 | 4 | 2.6 | * | * | * | * * |

Table F. 1 Past Year Serious Mental IIIness (SMI) (continued)

| Domains | FE Sample (2015+2016) |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent |
| West South Central |  |  |  |  |  |  |  |  |  |  |
| White Only | 856 | 3.8 | 854 | 3.8 | 852 | 3.8 | 868 | 3.9 | 845 | 3.8 |
| Black Only | 100 | 2.5 | 103 | 2.6 | 108 | 2.7 | 113 | 2.9 | 88 | 2.2 |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * * |
| Asian Only | 11 | 1.0 | 11 | 1.0 | 10 | 0.9 | 12 | 1.1 | * | * * |
| AIAN Only | 12 | 2.4 | 7 | 1.5 | * | * * | 13 | 2.7 | 11 | 2.1 |
| 2 or More Races | 27 | 5.5 | 28 | 5.8 | 36 | 7.5 | 27 | 5.9 | 26 | 5.1 |
| Mountain |  |  |  |  |  |  |  |  |  |  |
| White Only | 772 | 5.1 | 787 | 5.2 | 786 | 5.2 | 759 | 5.0 | 784 | 5.1 |
| Black Only | 48 | 7.2 | 49 | 7.4 | 47 | 7.0 | 52 | 7.9 | * | * * |
| NHOPI Only | 2 | 1.3 | 2 | 1.4 | 2 | 1.4 | * | * | * | * * |
| Asian Only | 14 | 2.5 | 14 | 2.4 | 14 | 2.4 | * | * | 14 | 2.5 * |
| AIAN Only | 20 | 3.3 | 18 | 3.0 | 23 | 3.8 | 14 | 2.4 | 25 | 4.2 |
| 2 or More Races | 34 | 9.0 | 42 | 11.1 | 38 | 10.0 | 27 | 7.4 | * | * * |
| Pacific |  |  |  |  |  |  |  |  |  |  |
| White Only | 1,263 | 4.3 | 1,233 | 4.2 | 1,229 | 4.2 | 1,093 | 3.7 | 1,433 | 4.8 |
| Black Only | 64 | 2.9 | 60 | 2.8 | 58 | 2.7 | 46 | 2.1 | 82 | 3.8 |
| NHOPI Only | 14 | 2.6 | 14 | 2.6 | 14 | 2.6 | 9 | 2.4 | 19 | 2.8 |
| Asian Only | 85 | 1.5 | 82 | 1.5 | 83 | 1.5 | 109 | 1.9 | 61 | 1.1 |
| AIAN Only | 24 | 3.6 | 27 | 3.9 | 28 | 4.2 | 25 | 3.8 | 24 | 3.5 |
| 2 or More Races | 141 | 10.2 | 142 | 10.3 | 140 | 10.2 | 168 | 12.3 | 113 | 8.1 |
| County Type by Age Group |  |  |  |  |  |  |  |  |  |  |
| Large Metro |  |  |  |  |  |  |  |  |  |  |
| $12+$ | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 12-17 | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 18+ | 5,278 | 3.9 | 5,390 | 3.9 | 5,445 | 3.9 | 5,108 | 3.8 | 5,448 | 4.0 |
| 18-25 | 1,032 | 5.4 | 1,042 | 5.3 | 1,056 | 5.4 | 981 | 5.1 | 1,084 | 5.7 |
| 26-49 | 2,694 | 4.6 | 2,767 | 4.6 a | 2,790 | 4.6 | 2,585 | 4.4 | 2,804 | 4.8 |
| 50+ | 1,551 | 2.7 | 1,582 | 2.7 | 1,599 | 2.7 | 1,542 | 2.7 | 1,560 | 2.7 |

Table F. 1 Past Year Serious Mental IIIness (SMI) (continued)


Table F. 1 Past Year Serious Mental IIIness (SMI) (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (2015+2016) \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent |
| Nonmetro, <2,500 urban pop |  |  |  |  |  |  |  |  |  |  |
| 12+ | -- | -- | -- | -- | -- |  | -- | -- | -- | -- -- |
| 12-17 | -- | -- | -- | -- -- | -- | -- | -- | -- | -- | -- -- |
| 18+ | 142 | 3.8 | 114 | 3.6 | 114 | 3.6 | 158 | 3.8 | 126 | 3.7 |
| 18-25 | 25 | 6.2 | 23 | 7.3 | 23 | 7.4 | 22 | 5.0 | 28 | 7.7 |
| 26-49 | 86 | 6.6 | 70 | 6.7 | 70 | 6.8 | 96 | 6.6 | 76 | 6.5 |
| 50+ | 31 | 1.5 | 21 | 1.2 | 21 | 1.2 | * | * | 22 | 1.2 * |
| County Type by Hispanicity |  |  |  |  |  |  |  |  |  |  |
| Large Metro |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 814 | 3.1 | 828 | 3.1 | 808 | 3.0 | 782 | 3.0 | 846 | 3.2 |
| Not Hispanic/Latino | 4,464 | 4.1 | 4,562 | 4.1 | 4,637 | 4.1 | 4,326 | 4.0 | 4,602 | 4.2 |
| Small Metro, pop 250,000-1,000,000 |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 304 | 4.0 | 262 | 3.5 | 236 | 3.2 | 202 | 2.8 | 405 | 5.2 |
| Not Hispanic/Latino | 1,962 | 4.6 | 2,005 | 4.6 | 1,984 | 4.7 | 1,905 | 4.4 | 2,018 | 4.8 |
| Small Metro, <250,000 population |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 58 | 2.5 | 61 | 2.6 | 61 | 2.7 | 48 | 2.1 | 69 | 2.8 |
| Not Hispanic/Latino | 919 | 4.4 | 903 | 4.3 | 912 | 4.4 | 920 | 4.4 | 918 | 4.4 |
| Nonmetro, 20,000 or more urban pop |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 48 | 4.6 | 45 | 4.5 | 46 | 4.6 | 55 | 4.9 | 41 | 4.3 |
| Not Hispanic/Latino | 619 | 4.8 | 604 | 4.8 | 600 | 4.8 | 701 | 5.6 | 536 | 4.1 |
| Nonmetro, 2,500-19,999 urban pop |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 23 | 2.7 | 17 | 2.2 | 16 | 2.0 | 21 | 3.0 | 24 | 2.5 |
| Not Hispanic/Latino | 710 | 4.5 | 638 | 4.4 | 620 | 4.4 | 646 | 4.3 | 774 | 4.6 |
| Nonmetro, $<2,500$ urban pop |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | * | * | * | * | * | * | * | * | * | * |
| Not Hispanic/Latino | 140 | 3.8 | 111 | 3.6 | 110 | 3.6 | 153 | 3.8 | 126 | 3.8 |
| County Type by Race |  |  |  |  |  |  |  |  |  |  |
| Large Metro |  |  |  |  |  |  |  |  |  |  |
| White Only | 4,230 | 4.2 | 4,306 | 4.2 | 4,338 | 4.2 | 4,031 | 4.0 | 4,429 | 4.4 |
| Black Only | 612 | 3.0 | 626 | 3.1 | 633 | 3.1 | 580 | 2.9 | 644 | 3.2 |
| NHOPI Only | 15 | 2.1 | 14 | 1.9 | 14 | 1.9 | 12 | 2.2 | 18 | 2.0 |
| Asian Only | 181 | 1.7 | 183 | 1.7 | 182 | 1.7 | 203 | 1.9 | 158 | 1.5 |
| AIAN Only | 41 | 3.1 | 42 | 3.2 | 55 | 3.9 | 50 | 3.7 | 32 | 2.5 |
| 2 or More Races | 199 | 8.2 | 219 | 8.7 | 222 | 8.6 | 231 | 9.9 | 167 | 6.6 |

Table F. 1 Past Year Serious Mental IIIness (SMI) (continued)


Table F. 1 Past Year Serious Mental IIIness (SMI) (continued)

| Domains | FE Sample (2015+2016) |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent |
| Nonmetro, $<2,500$ urban pop |  |  |  |  |  |  |  |  |  |  |
| White Only | 128 | 3.8 | 105 | 3.7 | 105 | 3.7 | 148 | 4.0 | 108 | 3.6 |
| Black Only | 4 | 1.7 | * | * * | * | * * | * | * | * | * * |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * * |
| Asian Only | * | * | * | * * | * | * * | * | * | * | * * |
| AIAN Only | 6 | 5.8 | * | * * | * | * * | 2 | 1.9 | * | * * |
| 2 or More Races | * | * | * | * * | * | * * | * | * | * | * * |
| College Enrollment by Gender |  |  |  |  |  |  |  |  |  |  |
| Persons Aged 18 to $22^{1}$ |  |  |  |  |  |  |  |  |  |  |
| Male | 389 | 3.6 | 378 | 3.5 | 372 | 3.5 | 346 | 3.2 | 432 | 4.0 |
| Female | 780 | 7.6 | 787 | 7.6 | 773 | 7.6 | 709 | 6.8 | 850 | 8.3 a |
| Full-Time College Students |  |  |  |  |  |  |  |  |  |  |
| Male | 118 | 3.2 | 115 | 3.1 | 106 | 3.1 | 105 | 2.8 | 130 | 3.6 |
| Female | 302 | 7.1 | 304 | 7.1 | 276 | 6.9 | 240 | 5.8 | 364 | 8.3 a |
| Other Persons Aged 18 to $22^{2}$ |  |  |  |  |  |  |  |  |  |  |
| Male | 271 | 3.8 | 263 | 3.7 | 266 | $3.7$ | 241 | 3.4 | 302 | 4.2 |
| Female | 477 | 7.9 | 483 | 8.0 | 497 | 8.1 a | 469 | 7.5 | 485 | 8.3 |
| Age Group by Gender |  |  |  |  |  |  |  |  |  |  |
| 12+ |  |  |  |  |  |  |  |  |  |  |
| Male | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| Female | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 12-17 |  |  |  |  |  |  |  |  |  |  |
| Male | -- | -- | -- | -- | - | -- -- | - | -- | -- | -- -- |
| Female | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 18+ |  |  |  |  |  |  |  |  |  |  |
| Male | 3,526 | 3.0 | 3,576 | 3.0 | 3,527 | 3.0 | 3,464 | 3.0 | 3,588 | 3.0 |
| Female | 6,537 | 5.2 | 6,465 | 5.1 | 6,507 | 5.2 | 6,301 | 5.0 | 6,772 | 5.3 |
| 18-25 |  |  |  |  |  |  |  |  |  |  |
| Male | 674 | 3.9 | 664 | 3.8 | 660 | 3.8 | 635 | 3.6 | 714 | 4.1 |
| Female | 1,221 | 7.1 | 1,230 | 7.1 | 1,235 | 7.1 | 1,121 | 6.5 | 1,321 | 7.7 a |
| 26-49 |  |  |  |  |  |  |  |  |  |  |
| Male | 1,801 | 3.7 | 1,820 | 3.7 | 1,800 | 3.7 | 1,742 | 3.6 | 1,861 | 3.8 |
| Female | 3,286 | 6.5 | 3,243 | 6.5 | 3,259 | 6.5 | 3,154 | 6.3 | 3,418 | 6.8 |

Table F. 1 Past Year Serious Mental IIIness (SMI) (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (2015+2016) \\ \hline \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent |
| 50+ |  |  |  |  |  |  |  |  |  |  |
| Male | 1,051 | 2.0 | 1,091 | 2.1 | 1,068 | 2.1 | 1,087 | 2.1 | 1,014 | 2.0 |
| Female | 2,029 | 3.5 | 1,992 | 3.4 | 2,013 | 3.4 | 2,026 | 3.5 | 2,033 | 3.4 |
| Age Group by Race 12+ |  |  |  |  |  |  |  |  |  |  |
| White Only | -- | -- | -- |  | -- |  | -- | -- | -- | -- -- |
| Black Only | -- | -- | -- | -- | -- |  | -- | -- | -- | -- -- |
| NHOPI Only | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| Asian Only | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- -- |
| AIAN Only | -- | -- | -- | -- | -- | -- -- | -- | -- | -- | -- -- |
| 2 or More Races | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 12-17 |  |  |  |  |  |  |  |  |  |  |
| White Only | -- | -- | -- | -- -- | -- | -- - | -- | -- | -- | -- -- |
| Black Only | -- | -- | -- | -- -- | -- | -- | -- | -- | -- | -- -- |
| NHOPI Only | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- -- |
| Asian Only | -- | -- | -- | -- -- | -- | -- - | -- | -- | -- | -- -- |
| AIAN Only | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 2 or More Races | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 18+ |  |  |  |  |  |  |  |  |  |  |
| White Only | 8,404 | 4.4 | 8,377 | 4.4 | 8,353 | 4.4 | 8,116 | 4.3 | 8,693 | 4.5 |
| Black Only | 932 | 3.1 | 923 | 3.0 | 928 | 3.1 | 884 | 2.9 | 979 | 3.2 |
| NHOPI Only | 24 | 2.1 | 23 | 2.0 | 22 | 2.0 | 17 | 1.9 | 31 | 2.2 |
| Asian Only | 228 | 1.7 | 226 | 1.7 | 223 | 1.7 | 241 | 1.8 | 215 | 1.6 |
| AIAN Only | 107 | 3.8 | 109 | 3.9 | 128 | 4.6 | 113 | 4.1 | 101 | 3.6 |
| 2 or More Races | 368 | 8.0 | 382 | 8.3 | 381 | 8.2 | 394 | 8.7 | 342 | 7.3 |
| 18-25 |  |  |  |  |  |  |  |  |  |  |
| White Only | 1,535 | 6.0 | 1,528 | 6.0 | 1,530 | 6.0 | 1,437 | 5.6 | 1,633 | 6.4 |
| Black Only | 182 | 3.4 | 185 | 3.5 | 181 | 3.4 | 153 | 2.8 | 212 | 4.0 |
| NHOPI Only | 4 | 1.7 | 4 | 1.8 | 4 | 1.8 | 4 | 1.8 | 4 | 1.6 |
| Asian Only | 75 | 3.5 | 75 | 3.5 | 76 | 3.6 | 56 | 2.7 | 94 | 4.3 |
| AIAN Only | 15 | 2.8 | 15 | 2.9 | 16 | 2.9 | 13 | 2.6 | 16 | 3.0 |
| 2 or More Races | 85 | 8.8 | 86 | 9.0 | 88 | 9.0 | 93 | 9.3 | 77 | 8.3 |

Table F. 1 Past Year Serious Mental IIIness (SMI) (continued)

| Domains | FE Sample (2015+2016) |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample <br> Excluding GQ, AIAN <br> Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in 1,000s) | Percent |
| 26-49 |  |  |  |  |  |  |  |  |  |  |
| White Only | 4,231 | 5.6 | 4,203 | 5.6 | 4,191 | 5.6 | 4,074 | 5.4 | 4,389 | 5.8 |
| Black Only | 487 | 3.7 | 490 | 3.7 | 493 | 3.7 | 435 | 3.3 | 539 | 4.0 |
| NHOPI Only | 19 | 3.7 | 19 | 3.6 | 18 | 3.7 | 11 | 2.6 | 27 | 4.5 |
| Asian Only | 111 | 1.6 | 109 | 1.6 | 107 | 1.6 | 124 | 1.8 | 98 | 1.4 |
| AIAN Only | 69 | 5.2 | 70 | 5.1 | 79 | 5.8 | 83 | 6.2 | 55 | 4.2 |
| 2 or More Races | 169 | 8.9 | 172 | 8.9 | 171 | 9.0 | 168 | 9.2 | 171 | 8.6 |
| 50+ |  |  |  |  |  |  |  |  |  |  |
| White Only | 2,638 | 2.9 | 2,645 | 2.9 | 2,632 | 2.9 | 2,606 | 2.9 | 2,670 | 2.9 |
| Black Only | 263 | 2.2 | 248 | 2.1 | 253 | 2.1 | 296 | 2.5 | 229 | 1.9 |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * |
| Asian Only | 42 | 0.9 | 41 | 0.9 | 40 | 0.9 | 61 | 1.3 | * | * |
| AIAN Only | 23 | 2.5 | 24 | 2.7 | 33 | 3.8 | * | * | 30 | 3.1 * |
| 2 or More Races | 114 | 6.5 | 124 | 7.1 | 123 | 7.0 | 133 | 7.8 | 94 | 5.2 |
| Age Group by Hispanicity |  |  |  |  |  |  |  |  |  |  |
| $12+$ |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| Not Hispanic/Latino | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 12-17 |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | -- | -- | -- |  | -- | -- -- | -- | -- | -- | -- -- |
| Not Hispanic/Latino | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 18+ |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 1,250 | 3.3 | 1,217 | 3.2 | 1,171 | 3.1 a | 1,114 | 2.9 | 1,386 | 3.6 |
| Not Hispanic/Latino | 8,813 | 4.3 | 8,824 | 4.3 | 8,864 | 4.3 | 8,651 | 4.2 | 8,975 | 4.4 |
| 18-25 |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 303 | 4.1 | 301 | 4.0 | 289 | 3.9 a | 263 | 3.5 | 344 | 4.6 |
| Not Hispanic/Latino | 1,592 | 5.8 | 1,593 | 5.8 | 1,606 | 5.9 | 1,493 | 5.4 | 1,691 | 6.2 a |
| 26-49 |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 592 | 3.0 | 583 | 3.0 | 563 | 2.9 | 581 | 3.0 | 604 | 3.1 |
| Not Hispanic/Latino | 4,495 | 5.7 | 4,480 | 5.6 | 4,496 | 5.7 | 4,315 | 5.4 | 4,674 | 5.9 |
| 50+ |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 354 | 3.2 | 333 | 3.0 | 319 | 2.8 | 271 | 2.5 | 438 | 3.8 |
| Not Hispanic/Latino | 2,726 | 2.8 | 2,750 | 2.8 | 2,762 | 2.8 | 2,842 | 2.9 | 2,609 | 2.6 |

Table F. 1 Past Year Serious Mental IIIness (SMI) (continued)


Table F. 1 Past Year Serious Mental IIlness (SMI) (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (\mathbf{2 0 1 5 + 2 0 1 6 )} \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in 1,000 s) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in 1,000s) | Percent |
| Pregnancy by Hispanicity |  |  |  |  |  |  |  |  |  |  |
| Female Aged 18-44 ${ }^{3}$ |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 541 | 4.7 | 535 | 4.7 | 535 | 4.7 | 469 | 4.1 | 612 | 5.3 |
| Not Hispanic/Latino | 3,312 | 7.3 | 3,291 | 7.2 | 3,329 | 7.3 | 3,171 | 7.0 | 3,453 | 7.6 |
| Pregnant Female Aged 18-44 |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 13 | 2.8 | 14 | 2.9 | 14 | 2.9 | 8 | 1.7 | 18 | 3.8 |
| Not Hispanic/Latino | 80 | 4.5 | 83 | 4.6 | 82 | 4.6 | 63 | 3.5 | 97 | 5.6 |
| Not Pregnant Female Aged 18-44 |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 528 | 4.8 | 521 | 4.8 | 521 | 4.8 | 461 | 4.2 | 594 | 5.4 |
| Not Hispanic/Latino | 3,232 | 7.4 | 3,209 | 7.3 | 3,246 | 7.4 | 3,108 | 7.1 | 3,355 | 7.6 |

* = low precision; -- = not available; AIAN = American Indian or Alaska Native; $\mathrm{FE}=$ field enumeration; $\mathrm{GQ}=$ group quarters; NHOPI $=$ Native Hawaiian or Other $\rightarrow \quad$ Pacific Islander; pop $=$ population.
Uூ. ${ }^{1}$ Excludes those with unknown enrollment status.
${ }^{2}$ Other Persons include respondents aged 18 to 22 not enrolled in school, enrolled in college part time, enrolled in other grades either full or part time, or enrolled with no other information available.
${ }^{3}$ Excludes those with unknown pregnancy status.
${ }^{\text {a }}$ The difference between this estimate and the person sample estimate is statistically significant at the .05 level.

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## Appendix G: 2015-2016 NSDUH - Weighted Annual Averages Past Month Alcohol Use - ALCMON

Table G. 1 Past Month Alcohol Use

| Domains | $\begin{gathered} \text { FE Sample } \\ (2015+2016) \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample <br> Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000 s) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent |  |
| Age Group |  |  |  |  |  |  |  |  |  |  |  |
| 12+ | 137,528 | 51.2 | 138,060 | 51.4 a | 138,297 | 51.5 a | 138,322 | 51.7 | 136,735 | 50.7 | a |
| 12-17 | 2,341 | 9.4 | 2,345 | 9.4 | 2,330 | 9.4 | 2,392 | 9.6 | 2,289 | 9.2 |  |
| 18+ | 135,188 | 55.5 | 135,715 | 55.7 a | 135,967 | 55.8 a | 135,929 | 56.0 | 134,446 | 55.0 | a |
| 18-25 | 20,060 | 57.7 | 20,121 | 57.9 a | 20,188 | 58.1 a | 20,367 | 58.3 | 19,754 | 57.1 |  |
| 26-49 | 60,738 | 61.4 | 60,947 | 61.6 a | 61,109 | 61.8 a | 60,885 | 61.7 | 60,591 | 61.1 |  |
| 50+ | 54,389 | 49.4 | 54,647 | 49.7 a | 54,670 | 49.7 a | 54,678 | 50.0 | 54,101 | 48.8 |  |
| Gender |  |  |  |  |  |  |  |  |  |  |  |
| Male | 72,587 | 55.8 | 72,886 | 56.0 a | 73,057 | 56.1 a | 72,889 | 56.2 | 72,286 | 55.3 |  |
| Female | 64,941 | 46.9 | 65,174 | 47.1 a | 65,240 | 47.1 a | 65,432 | 47.4 | 64,449 | 46.4 |  |
| Hispanicity |  |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 18,662 | 42.5 | 18,630 | 42.4 | 18,636 | 42.4 | 18,488 | 42.4 | 18,835 | 42.5 |  |
| Not Hispanic/Latino | 118,867 | 52.9 | 119,430 | 53.2 a | 119,660 | 53.3 a | 119,833 | 53.5 | 117,900 | 52.4 | a |
| Race |  |  |  |  |  |  |  |  |  |  |  |
| White Only | 113,259 | 54.0 | 113,792 | 54.3 a | 113,976 | 54.4 a | 113,614 | 54.3 | 112,903 | 53.8 |  |
| Black Only | 14,538 | 42.6 | 14,596 | 42.8 | 14,660 | 43.0 a | 14,868 | 43.8 | 14,209 | 41.4 | a |
| NHOPI Only | 492 | 37.4 | 494 | 37.4 | 477 | 36.5 | 400 | 36.5 | 583 | 38.1 |  |
| Asian Only | 5,565 | 37.6 | 5,462 | 36.9 a | 5,448 | 36.8 a | 5,918 | 39.8 | 5,211 | 35.3 | a |
| AIAN Only | 1,183 | 37.2 | 1,202 | 37.8 | 1,237 | 38.9 | 1,186 | 37.6 | 1,180 | 36.9 |  |
| 2 or More Races | 2,492 | 44.9 | 2,513 | 45.3 | 2,499 | 45.0 | 2,335 | 42.8 | 2,648 | 46.9 |  |
| Division |  |  |  |  |  |  |  |  |  |  |  |
| New England | 7,468 | 59.1 | 7,462 | 59.0 | 7,472 | 59.1 | 7,380 | 58.4 | 7,555 | 59.7 |  |
| Middle Atlantic | 19,294 | 54.9 | 19,352 | 55.0 | 19,368 | 55.1 | 19,346 | 55.0 | 19,243 | 54.8 |  |
| East North Central | 20,971 | 53.5 | 21,054 | 53.7 | 21,045 | 53.7 | 20,769 | 53.0 | 21,173 | 54.0 |  |
| West North Central | 9,907 | 56.6 | 9,888 | 56.5 | 9,920 | 56.7 | 9,788 | 56.1 | 10,025 | 57.2 |  |
| South Atlantic | 26,480 | 49.8 | 26,639 | 50.1 a | 26,639 | 50.1 a | 27,061 | 51.2 | 25,899 | 48.4 | a |
| East South Central | 6,377 | 40.6 | 6,530 | 41.6 a | 6,558 | 41.7 a | 6,409 | 40.9 | 6,345 | 40.3 |  |
| West South Central | 14,742 | 46.4 | 14,784 | 46.5 | 14,906 | 46.9 | 14,814 | 46.9 | 14,669 | 45.9 |  |
| Mountain | 9,694 | 49.7 | 9,735 | 49.9 | 9,754 | 50.0 | 9,626 | 49.8 | 9,762 | 49.7 |  |
| Pacific | 22,596 | 51.5 | 22,616 | 51.6 | 22,634 | 51.6 | 23,128 | 52.9 | 22,063 | 50.2 | a |

Table G. 1 Past Month Alcohol Use (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (\mathbf{2 0 1 5 + 2 0 1 6 )} \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent |
| County TypeLarge MertoSmall Mero, pop 250,000-1,000,000Small Merto, < 250,000 populationNonmetro, 20,000 or more urban popNonmetro, $2,500-19,999$ urban popNonmetro, <2,500 urban popCollege EnrollmentPersons Aged 18 to 22Full-Time College StudentsOther Persons Aged 18 to 22 |  |  |  |  |  |  |  |  |  |  |
|  | 79,929 | 53.4 | 81,179 | 53.4 | 82,088 | 53.4 | 80,628 | 54.0 | 79,230 | 52.7 a |
|  | 27,889 | 50.1 | 28,165 | 50.2 | 27,766 | 50.4 | 28,394 | 50.7 | 27,383 | 49.6 |
|  | 13,062 | 51.1 | 12,950 | 51.1 | 12,904 | 51.2 | 12,967 | 50.7 | 13,158 | 51.6 |
|  | 7,192 | 47.2 | 7,148 | 47.8 a | 7,152 | 48.0 | 7,346 | 48.5 | 7,038 | 45.9 |
|  | 7,886 | 43.4 | 7,311 | 43.9 | 7,094 | 44.1 a | 7,379 | 43.4 | 8,394 | 43.4 |
|  | 1,570 | 38.0 | 1,307 | 38.1 | 1,292 | 38.0 | 1,608 | 35.2 | 1,533 | 41.5 a |
|  |  |  |  |  |  |  |  |  |  |  |
|  | 10,841 | 51.2 | 10,877 | 51.4 a | 10,702 | 51.3 | 11,036 | 51.9 | 10,645 | 50.5 |
|  | 4,571 | 57.6 | 4,624 | 57.9 a | 4,353 | 58.1 | 4,588 | 58.0 | 4,554 | 57.2 |
|  | 6,270 | 47.4 | 6,253 | 47.4 | 6,349 | 47.5 | 6,448 | 48.2 | 6,091 | 46.5 |
|  |  |  |  |  |  |  |  |  |  |  |
|  | 33,188 | 52.5 | 33,341 | 52.7 a | 33,393 | 52.8 a | 33,396 | 53.1 | 32,980 | 51.9 |
|  | 200 | 8.8 | 198 | 8.6 | 203 | 8.8 | 214 | 9.3 | 187 | 8.3 |
|  | 32,987 | 54.1 | 33,143 | 54.4 a | 33,190 | 54.5 a | 33,182 | 54.8 | 32,793 | 53.5 a |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  | 7,468 | 59.1 | 7,462 | 59.0 | 7,472 | 59.1 | 7,380 | 58.4 | 7,555 | 59.7 |
|  | 129 | 12.0 | 128 | 11.9 | 128 | 11.9 | 133 | 12.4 | 124 | 11.7 |
|  | 7,339 | 63.4 | 7,334 | 63.4 | 7,345 | 63.5 | 7,247 | 62.7 | 7,431 | 64.1 |
|  | 1,123 | 68.1 | 1,121 | 67.9 | 1,118 | 67.7 | 1,139 | 69.0 | 1,108 | 67.1 |
|  | 3,089 | 69.6 | 3,082 | 69.4 | 3,091 | 69.6 | 3,082 | 69.2 | 3,097 | 69.9 |
|  | 3,126 | 57.0 | 3,131 | 57.1 | 3,136 | 57.2 | 3,026 | 55.5 | 3,226 | 58.5 |
|  |  |  |  |  |  |  |  |  |  |  |
|  | 19,294 | 54.9 | 19,352 | 55.0 | 19,368 | 55.1 | 19,346 | 55.0 | 19,243 | 54.8 |
|  | 349 | 11.5 | 349 | 11.5 | 349 | 11.5 | 383 | 12.6 | 315 | 10.4 |
|  | 18,946 | 59.0 | 19,003 | 59.2 | 19,018 | 59.2 | 18,964 | 59.0 | 18,928 | 58.9 |
|  | 2,797 | 63.1 | 2,799 | 63.1 | 2,800 | 63.1 | 2,857 | 63.9 | 2,738 | 62.2 |
|  | 8,191 | 63.8 | 8,201 | 63.9 | 8,215 | 64.0 | 8,167 | 63.4 | 8,214 | 64.1 |
|  | 7,958 | 53.6 | 8,003 | 53.9 | 8,003 | 53.9 | 7,939 | 53.7 | 7,976 | 53.5 |

[^21]Table G. 1 Past Month Alcohol Use (continued)


Table G. 1 Past Month Alcohol Use (continued)

| Domains | FE Sample (2015+2016) |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent |
| West South Central |  |  |  |  |  |  |  |  |  |  |
| 12+ | 14,742 | 46.4 | 14,784 | 46.5 | 14,906 | 46.9 | 14,814 | 46.9 | 14,669 | 45.9 |
| 12-17 | 303 | 9.1 | 307 | 9.3 | 296 | 8.9 | 316 | 9.6 | 290 | 8.7 |
| 18+ | 14,439 | 50.7 | 14,476 | 50.8 | 14,610 | 51.3 | 14,498 | 51.2 | 14,379 | 50.2 |
| 18-25 | 2,257 | 52.1 | 2,266 | 52.3 | 2,284 | 52.7 | 2,263 | 52.1 | 2,252 | 52.0 |
| 26-49 | 7,259 | 59.1 | 7,316 | 59.5 a | 7,441 | 60.5 a | 7,194 | 58.9 | 7,325 | 59.2 |
| 50+ | 4,922 | 41.5 | 4,894 | 41.3 | 4,885 | 41.2 | 5,041 | 42.8 | 4,803 | 40.2 |
| Mountain |  |  |  |  |  |  |  |  |  |  |
| 12+ | 9,694 | 49.7 | 9,735 | 49.9 | 9,754 | 50.0 | 9,626 | 49.8 | 9,762 | 49.7 |
| 12-17 | 173 | 9.0 | 174 | 9.1 | 176 | 9.2 | 172 | 9.0 | 173 | 9.0 |
| 18+ | 9,521 | 54.2 | 9,561 | 54.4 | 9,578 | 54.5 | 9,453 | 54.2 | 9,589 | 54.1 |
| 18-25 | 1,398 | 54.0 | 1,406 | 54.3 | 1,419 | 54.8 | 1,419 | 54.8 | 1,378 | 53.2 |
| 26-49 | 4,255 | 58.7 | 4,262 | 58.8 | 4,268 | 58.9 | 4,233 | 58.9 | 4,277 | 58.5 |
| 50+ | 3,868 | 50.0 | 3,892 | 50.3 | 3,892 | 50.3 | 3,802 | 49.7 | 3,933 | 50.2 |
| Pacific |  |  |  |  |  |  |  |  |  |  |
| 12+ | 22,596 | 51.5 | 22,616 | 51.6 | 22,634 | 51.6 | 23,128 | 52.9 | 22,063 | 50.2 a |
| 12-17 | 366 | 9.1 | 370 | 9.2 a | 368 | 9.2 | 365 | 9.1 | 368 | 9.2 |
| 18+ | 22,229 | 55.8 | 22,245 | 55.9 | 22,266 | 55.9 | 22,763 | 57.4 | 21,695 | 54.3 a |
| 18-25 | 3,180 | 55.0 | 3,179 | 55.0 | 3,202 | 55.4 | 3,273 | 56.2 | 3,087 | 53.9 |
| 26-49 | 10,390 | 61.1 | 10,368 | 61.0 | 10,366 | 61.0 | 10,338 | 61.1 | 10,442 | 61.2 |
| 50+ | 8,659 | 50.8 | 8,698 | 51.0 | 8,697 | 51.0 | 9,152 | 54.1 | 8,166 | 47.6 a |
| Division by Hispanicity |  |  |  |  |  |  |  |  |  |  |
| New England |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 498 | 41.2 | 484 | 40.1 | 488 | 40.4 | 536 | 45.0 | 460 | $37.6$ |
| Not Hispanic/Latino | 6,970 | 60.9 | 6,978 | 61.0 | 6,984 | 61.1 | 6,844 | 59.8 | 7,096 | 62.1 |
| Middle Atlantic |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 2,100 | 41.5 | 2,119 | 41.9 | 2,126 | 42.0 | 2,096 | 41.7 | 2,104 | 41.4 |
| Not Hispanic/Latino | 17,195 | 57.1 | 17,233 | 57.2 | 17,242 | 57.3 | 17,251 | 57.2 | 17,138 | 57.0 |
| East North Central |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 1,344 | 45.4 | 1,329 | 45.0 | 1,334 | 45.1 | 1,324 | 45.1 | 1,364 | 45.8 |
| Not Hispanic/Latino | 19,627 | 54.1 | 19,725 | 54.4 a | 19,711 | 54.4 a | 19,445 | 53.6 | 19,809 | 54.7 |

Table G. 1 Past Month Alcohol Use (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (2015+2016) \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent |
| West North Central |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 424 | 45.0 | 393 | 41.8 a | 391 | 41.6 a | 371 | 39.8 | 476 | 50.1 |
| Not Hispanic/Latino | 9,483 | 57.3 | 9,495 | 57.4 | 9,529 | 57.6 | 9,417 | 57.0 | 9,549 | 57.6 |
| South Atlantic |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 2,984 | 43.5 | 2,993 | 43.6 | 2,986 | 43.5 | 2,961 | 43.7 | 3,006 | 43.2 |
| Not Hispanic/Latino | 23,496 | 50.7 | 23,645 | 51.0 a | 23,653 | 51.1 a | 24,100 | 52.3 | 22,893 | 49.2 a |
| East South Central |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 206 | 37.2 | 217 | 39.1 | 217 | 39.2 | 193 | 35.1 | 219 | 39.2 |
| Not Hispanic/Latino | 6,171 | 40.7 | 6,313 | 41.6 a | 6,341 | 41.8 a | 6,216 | 41.1 | 6,126 | 40.3 |
| West South Central |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 3,612 | 40.8 | 3,579 | 40.5 | 3,588 | 40.6 | 3,598 | 41.1 | 3,627 | 40.6 |
| Not Hispanic/Latino | 11,129 | 48.5 | 11,205 | 48.8 | 11,318 | 49.3 | 11,217 | 49.1 | 11,042 | 47.9 |
| Mountain |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 1,885 |  | 1,880 |  | 1,872 |  | 1,796 | 40.8 | 1,974 | 43.8 |
| Not Hispanic/Latino | 7,809 | 51.9 | 7,855 | 52.2 | 7,882 | 52.4 a | 7,830 | 52.4 | 7,789 | 51.4 |
| Pacific |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 5,610 |  | 5,635 |  | 5,633 |  | 5,614 |  | 5,605 |  |
| Not Hispanic/Latino | 16,986 | 55.2 | 16,981 | 55.2 | 17,000 | 55.2 | 17,514 | 57.1 | 16,458 | 53.3 a |
| Division by Race |  |  |  |  |  |  |  |  |  |  |
| New England |  |  |  |  |  |  |  |  |  |  |
| White Only | 6,642 | 61.4 | 6,631 | 61.3 | 6,637 | 61.3 | 6,561 | 60.6 | 6,723 | 62.1 |
| Black Only | 391 | 42.9 | 392 | 42.9 | 392 | 42.9 | 363 | 40.2 | 419 | 45.5 |
| NHOPI Only | , | * | * | * * | , | - | , | * | * | * |
| Asian Only |  | 48.4 | 268 | 46.8 | 272 | 47.9 | * | * | * | * * |
| AIAN Only | * | * | * | * * | * | * * | * | * | * | * * |
| 2 or More Races | * | * | * |  | * |  | * | * | * | * * |
| Middle Atlantic |  |  |  |  |  |  |  |  |  |  |
| White Only | 15,783 | 59.5 | 15,855 | 59.8 a | 15,861 | 59.8 a | 15,805 | 59.5 | 15,761 | 59.5 |
| Black Only | 2,150 | 42.0 | 2,151 | 42.0 | 2,156 | 42.1 | 2,228 | 43.6 | 2,071 | 40.4 |
| NHOPI Only | 56 | 39.9 | 56 | 38.5 | 57 | 38.6 | * | * | * | * * |
| Asian Only | 922 | 36.7 | 903 | 36.0 | 907 | 36.2 | 903 | 36.0 | 941 | 37.4 |
| AIAN Only | 85 | 35.9 | 87 | 36.7 | 87 | 36.6 | 91 | 38.7 | 79 | 33.2 |
| 2 or More Races | 299 | 48.0 | 299 | 48.1 | 300 | 48.1 | 275 | 44.8 | 323 | 51.2 |

Table G. 1 Past Month Alcohol Use (continued)


Table G. 1 Past Month Alcohol Use (continued)

(continued)

Table G. 1 Past Month Alcohol Use (continued)


Table G. 1 Past Month Alcohol Use (continued)

| Domains | FE Sample (2015+2016) |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent |  |
| Nonmetro, <2,500 urban pop <br> $12+$ <br> $12-17$ <br> $18+$ <br> $18-25$ <br> $26-49$ <br> $50+$ <br> County Type by Hispanicity <br> Large Metro <br> Hispanic/Latino <br> Not Hispanic/Latino <br> Small Metro, pop 250,000-1,000,000 <br> Hispanic/Latino <br> Not Hispanic/Latino <br> Small Metro, <250,000 population <br> Hispanic/Latino <br> Not Hispanic/Latino <br> Nonmetro, 20,000 or more urban pop <br> Hispanic/Latino <br> Not Hispanic/Latino <br> Nonmetro, 2,500-19,999 urban pop <br> Hispanic/Latino <br> Not Hispanic/Latino <br> Nonmetro, < 2,500 urban pop <br> Hispanic/Latino <br> Not Hispanic/Latino |  |  |  |  |  |  |  |  |  |  |  |
|  | 1,570 | 38.0 | 1,307 | 38.1 | 1,292 | 38.0 | 1,608 | 35.2 | 1,533 | 41.5 | a |
|  | 30 | 8.8 | 19 | 6.9 | 18 | 6.6 a | 30 | 8.0 | 31 | 9.6 |  |
|  | 1,540 | 40.7 | 1,288 | 40.8 | 1,274 | 40.7 | 1,578 | 37.6 | 1,502 | 44.5 | a |
|  | 182 | 45.4 | 148 | 47.1 | 149 | 48.2 | 196 | 44.2 | 168 | 46.8 |  |
|  | 615 | 47.0 | 520 | 49.3 | 499 | 49.0 | 639 | 44.0 | 591 | 50.6 |  |
|  | 743 | 35.8 | 620 | 34.7 | 626 | 34.8 | 743 | 32.2 | 743 | 40.2 |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  | 12,941 | 43.0 | 13,017 | 42.9 | 13,117 | 43.0 | 12,971 | 42.9 | 12,911 | 43.1 |  |
|  | 66,988 | 56.0 | 68,162 | 56.0 | 68,971 | 55.9 | 67,657 | 56.8 | 66,319 | 55.1 | a |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  | 3,656 | 41.7 | 3,624 | 41.6 | 3,583 | 41.8 | 3,511 | 41.7 | 3,801 | 41.7 |  |
|  | 24,233 | 51.7 | 24,541 | 51.8 | 24,183 | 52.0 | 24,883 | 52.3 | 23,583 | 51.1 |  |
|  | 1,137 | 41.5 | 1,125 | 41.4 | 1,082 | 40.5 | 1,027 | 39.4 | 1,247 | 43.4 |  |
|  | 11,925 | 52.3 | 11,826 | 52.3 | 11,822 | 52.5 | 11,940 | 52.0 | 11,911 | 52.6 |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  | 522 | 42.9 | 509 | 43.4 | 506 | 43.1 | 605 | 46.5 | 440 | 38.8 |  |
|  | 6,669 | 47.5 | 6,638 | 48.2 a | 6,647 | 48.4 | 6,741 | 48.7 | 6,598 | 46.4 |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  | 345 | 35.2 | 302 | 34.4 | 299 | 34.2 | 309 | 37.7 | 381 | 33.4 |  |
|  | 7,541 | 43.8 | 7,009 | 44.5 | 6,795 | 44.7 a | 7,069 | 43.6 | 8,013 | 44.0 |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  | 60 | 42.2 | 52 | 41.7 | 49 | 41.3 | * | * | * | * * | * |
|  | 1,510 | 37.9 | 1,255 | 38.0 | 1,243 | 37.8 | 1,544 | 35.1 | 1,477 | 41.2 | a |

Table G. 1 Past Month Alcohol Use (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (\mathbf{2 0 1 5 + 2 0 1 6 )} \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample <br> Excluding GQ, AIAN <br> Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in $1,000 s$ ) | Percent | Total (Numbers in 1,000s) | Percent |
| County Type by Race |  |  |  |  |  |  |  |  |  |  |
| Large Metro |  |  |  |  |  |  |  |  |  |  |
| White Only | 63,201 | 57.3 | 64,304 | 57.3 | 64,971 | 57.3 | 63,731 | 57.8 | 62,672 | 56.8 |
| Black Only | 9,971 | 44.3 | 10,081 | 44.3 | 10,200 | 44.4 | 10,178 | 45.5 | 9,765 | 43.1 |
| NHOPI Only | 348 | 41.3 | 352 | 41.3 | 344 | 40.2 | 269 | 39.4 | * | * * |
| Asian Only | 4,473 | 38.1 | 4,432 | 37.5 a | 4,444 | 37.4 a | 4,648 | 39.9 | 4,297 | 36.2 |
| AIAN Only | 604 | 39.8 | 599 | 39.5 | 678 | 40.8 | 619 | 39.4 | 590 | 40.2 |
| 2 or More Races | 1,331 | 45.7 | 1,410 | 46.6 | 1,452 | 46.8 | 1,184 | 41.8 | 1,478 | 49.4 a |
| Small Metro, pop 250,000-1,000,000 |  |  |  |  |  |  |  |  |  |  |
| White Only | 23,902 | 52.7 | 24,114 | 52.8 | 23,787 | 53.0 a | 24,301 | 53.2 | 23,503 | 52.2 |
| Black Only | 2,359 | 39.9 | 2,406 | 40.5 | 2,388 | 40.6 | 2,414 | 40.3 | 2,303 | 39.5 |
| NHOPI Only | 91 | 30.2 | 91 | 29.6 | 85 | 28.5 | * | * |  | * |
| Asian Only | 708 | 33.7 | 707 | 33.7 | 681 | 33.1 | 803 | 37.3 | 613 | 30.0 |
| AIAN Only | 211 | 33.9 | 228 | 34.7 | 228 | 33.4 | 191 | 30.3 | 231 | 37.7 |
| 2 or More Races | 618 | 45.6 | 618 | 44.7 | 597 | 45.2 | 598 | 45.1 | 639 | 46.2 |
| Small Metro, <250,000 population |  |  |  |  |  |  |  |  |  |  |
| White Only | 11,373 | 52.5 | 11,333 | 52.6 | 11,313 | 52.6 | 11,104 | 51.4 | 11,642 | 53.5 |
| Black Only | 1,056 | 43.7 | 1,019 | 43.3 | 983 | 44.0 | 1,200 | 46.9 | 911 | 40.0 |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * * |
| Asian Only | 240 | 39.3 | 198 | 35.8 | 197 | 35.5 | * | * | 195 | 34.9 |
| AIAN Only | 143 | 49.8 | 164 | 47.5 | 175 | 44.5 | * | * | 129 | 44.2 * |
| 2 or More Races | 221 | 46.3 | 205 | 46.5 | 205 | 45.8 | 208 | 46.5 | 234 | 46.1 |
| Nonmetro, 20,000 or more urban pop |  |  |  |  |  |  |  |  |  |  |
| White Only | 6,405 | 49.2 | 6,358 | 49.9 a | 6,368 | 50.0 | 6,542 | 50.5 | 6,269 | 48.0 |
| Black Only | 458 | 34.5 | 470 | 35.0 | 479 | 35.7 | 438 | 35.9 | 478 | 33.2 |
| NHOPI Only | * | * | * | * | * | * | * | * | * | * * |
| Asian Only | 84 | 37.8 | 82 | 38.7 | 88 | 38.2 | * | * | * | * * |
| AIAN Only | 86 | 31.3 | 97 | 32.4 | * | * * | * | * | * | * |
| 2 or More Races | 139 | 40.1 | 123 | 41.6 | 109 | 37.4 | * | * | 118 | 44.2 * |

(continued)

Table G. 1 Past Month Alcohol Use (continued)

(continued)

Table G. 1 Past Month Alcohol Use (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (2015+2016) \\ \hline \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent |
| 18+ |  |  |  |  |  |  |  |  |  |  |
| Male | 71,442 | 60.8 | 71,737 | 61.1 a | 71,916 | 61.2 a | 71,710 | 61.3 | 71,174 | 60.4 |
| Female | 63,746 | 50.5 | 63,978 | 50.7 a | 64,052 | 50.8 a | 64,219 | 51.1 | 63,272 | 50.0 |
| 18-25 |  |  |  |  |  |  |  |  |  |  |
| Male | 10,225 | 58.6 | 10,238 | 58.7 | 10,284 | 59.0 | 10,433 | 59.5 | 10,018 | 57.7 |
| Female | 9,835 | 56.9 | 9,883 | 57.1 a | 9,904 | 57.3 a | 9,933 | 57.2 | 9,736 | 56.6 |
| 26-49 |  |  |  |  |  |  |  |  |  |  |
| Male | 32,674 | 67.2 | 32,793 | 67.4 a | 32,898 | 67.6 a | 32,630 | 67.3 | 32,719 | 67.1 |
| Female | 28,064 | 55.8 | 28,154 | 56.0 a | 28,211 | 56.1 a | 28,256 | 56.3 | 27,872 | 55.4 |
| 50+ |  |  |  |  |  |  |  |  |  |  |
| Male | 28,542 | 55.5 | 28,706 | 55.8 a | 28,733 | 55.9 a | 28,648 | 56.1 | 28,437 | 54.9 |
| Female | 25,847 | 44.1 | 25,941 | 44.2 | 25,936 | 44.2 | 26,030 | 44.7 | 25,664 | 43.5 |
| Age Group by Race 12+ |  |  |  |  |  |  |  |  |  |  |
| White Only | 113,259 | 54.0 | 113,792 | 54.3 a | 113,976 | 54.4 a | 113,614 | 54.3 | 112,903 | 53.8 |
| Black Only | 14,538 | 42.6 | 14,596 | 42.8 | 14,660 | 43.0 a | 14,868 | 43.8 | 14,209 | 41.4 a |
| NHOPI Only | 492 | 37.4 | 494 | 37.4 | 477 | 36.5 | 400 | 36.5 | 583 | 38.1 |
| Asian Only | 5,565 | 37.6 | 5,462 | 36.9 a | 5,448 | 36.8 a | 5,918 | 39.8 | 5,211 | 35.3 a |
| AIAN Only | 1,183 | 37.2 | 1,202 | 37.8 | 1,237 | 38.9 | 1,186 | 37.6 | 1,180 | 36.9 |
| 2 or More Races | 2,492 | 44.9 | 2,513 | 45.3 | 2,499 | 45.0 | 2,335 | 42.8 | 2,648 | 46.9 |
| 12-17 |  |  |  |  |  |  |  |  |  |  |
| White Only | 1,871 | 10.2 | 1,872 | 10.2 | 1,858 | 10.1 | 1,904 | 10.4 | 1,838 | 10.0 |
| Black Only | 256 | 6.9 | 258 | 6.9 | 255 | 6.9 | 274 | 7.3 | 239 | 6.4 |
| NHOPI Only | 17 | 9.6 | 17 | 10.1 | 17 | 10.4 | * | * | 11 | 6.8 * |
| Asian Only | 67 | 5.1 | 68 | 5.2 | 68 | 5.2 | 63 | 4.9 | 71 | 5.3 |
| AIAN Only | 36 | 9.1 | 36 | 8.9 | 37 | 9.2 | 44 | 10.7 | 29 | 7.5 |
| 2 or More Races | 92 | 10.0 | 94 | 10.1 | 94 | 10.1 | 85 | 9.3 | 100 | 10.6 |

Table G. 1 Past Month Alcohol Use (continued)

| Domains | FE Sample (2015+2016) |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent |
| 18+ |  |  |  |  |  |  |  |  |  |  |
| White Only | 111,387 | 58.2 | 111,921 | 58.5 a | 112,118 | 58.6 a | 111,710 | 58.5 | 111,065 | 57.9 |
| Black Only | 14,282 | 47.0 | 14,338 | 47.2 | 14,404 | 47.4 a | 14,594 | 48.3 | 13,970 | 45.7 a |
| NHOPI Only | 474 | 41.8 | 477 | 41.4 | 460 | 40.2 | 377 | 41.7 | 572 | 41.9 |
| Asian Only | 5,497 | 40.7 | 5,394 | 40.0 a | 5,380 | 39.9 a | 5,855 | 43.0 | 5,139 | 38.4 a |
| AIAN Only | 1,147 | 41.2 | 1,166 | 42.0 | 1,200 | 43.3 | 1,142 | 41.6 | 1,152 | 40.9 |
| 2 or More Races | 2,399 | 51.9 | 2,419 | 52.4 | 2,406 | 52.0 | 2,251 | 49.5 | 2,548 | 54.2 |
| 18-25 |  |  |  |  |  |  |  |  |  |  |
| White Only | 15,580 | 61.0 | 15,635 | 61.2 a | 15,660 | 61.3 a | 15,649 | 60.9 | 15,511 | 61.0 |
| Black Only | 2,590 | 48.6 | 2,594 | 48.7 | 2,600 | 48.8 | 2,730 | 50.8 | 2,451 | 46.4 a |
| NHOPI Only | 100 | 42.0 | 100 | 42.3 | 99 | 42.4 | 111 | 44.6 | 90 | 39.2 |
| Asian Only | 981 | 46.1 | 982 | 46.1 | 989 | 47.0 | 998 | 48.4 | 963 | 44.0 |
| AIAN Only | 251 | 47.6 | 259 | 49.0 | 279 | 51.3 | 265 | 51.1 | 236 | 44.2 |
| 2 or More Races | 558 | 58.0 | 550 | 57.4 | 561 | 57.8 | 614 | 61.4 | 503 | 54.4 a |
| 26-49 |  |  |  |  |  |  |  |  |  |  |
| White Only | 48,065 | 64.1 | 48,307 | 64.4 a | 48,436 | 64.5 a | 48,137 | 64.2 | 47,994 | 63.9 |
| Black Only | 7,485 | 56.6 | 7,480 | 56.6 | 7,509 | 56.8 | 7,616 | 58.1 | 7,354 | 55.2 |
| NHOPI Only | 250 | 48.6 | 249 | 48.3 | 235 | 47.6 | 190 | 44.5 | 309 | 51.5 |
| Asian Only | 3,118 | 45.4 | 3,078 | 45.0 | 3,085 | 44.9 | 3,159 | 45.7 | 3,078 | 45.0 |
| AIAN Only | 622 | 46.4 | 629 | 46.3 | 661 | 48.5 | 648 | 47.9 | 597 | 44.9 |
| 2 or More Races | 1,197 | 62.8 | 1,204 | 62.6 | 1,184 | 62.2 | 1,135 | 62.0 | 1,259 | 63.7 |
| 50+ |  |  |  |  |  |  |  |  |  |  |
| White Only | 47,742 | 52.7 | 47,978 | 52.9 a | 48,022 | 53.0 a | 47,924 | 53.2 | 47,560 | 52.2 |
| Black Only | 4,207 | 35.5 | 4,264 | 36.0 | 4,295 | 36.3 a | 4,248 | 36.3 | 4,165 | 34.8 |
| NHOPI Only | * | * | * | * * | * | * | * | * | * | * |
| Asian Only | 1,398 | 31.1 | 1,333 | 29.5 a | 1,306 | 28.9 a | 1,698 | 36.8 | 1,098 | 25.1 a |
| AIAN Only | 274 | 29.9 | 279 | 31.2 | 261 | 30.0 | 230 | 26.2 | 318 | 33.4 |
| 2 or More Races | 644 | 36.7 | 665 | 38.2 | 660 | 37.8 | 501 | 29.3 | 786 | 43.7 a |

Table G. 1 Past Month Alcohol Use (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (2015+2016) \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent |
| Age Group by Hispanicity 12+ |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 18,662 | 42.5 | 18,630 | 42.4 | 18,636 | 42.4 | 18,488 | 42.4 | 18,835 | 42.5 |
| Not Hispanic/Latino | 118,867 | 52.9 | 119,430 | 53.2 a | 119,660 | 53.3 a | 119,833 | 53.5 | 117,900 | 52.4 a |
| 12-17 |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 515 | 8.9 | 520 | 9.0 | 518 | 9.0 | 510 | 8.9 | 520 | 8.9 |
| Not Hispanic/Latino | 1,825 | 9.6 | 1,825 | 9.6 | 1,811 | 9.5 | 1,882 | 9.8 | 1,769 | 9.3 |
| $18+$ |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 18,146 | 47.6 | 18,110 | 47.5 | 18,118 | 47.5 | 17,978 | 47.5 | 18,315 | 47.6 |
| Not Hispanic/Latino | 117,041 | 57.0 | 117,605 | 57.2 a | 117,849 | 57.3 a | 117,951 | 57.5 | 116,131 | 56.4 a |
| 18-25 |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 3,829 | 51.3 | 3,827 | 51.3 | 3,811 | 51.0 | 3,822 | 51.3 | 3,835 | 51.3 |
| Not Hispanic/Latino | 16,232 | 59.5 | 16,294 | 59.7 a | 16,377 | 60.0 a | 16,544 | 60.3 | 15,919 | 58.8 |
|  |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 10,103 | 51.9 | 10,111 | 52.0 | 10,119 | 52.0 | 10,014 | 51.7 | 10,192 | 52.1 |
| Not Hispanic/Latino | 50,635 | 63.7 | 50,836 | 64.0 a | 50,990 | 64.2 a | 50,871 | 64.2 | 50,398 | 63.3 |
| 50+ |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 4,215 | 37.5 | 4,172 | 37.1 | 4,188 | 37.3 | 4,142 | 37.6 | 4,288 | 37.4 |
| Not Hispanic/Latino | 50,175 | 50.8 | 50,475 | 51.1 a | 50,482 | 51.1 a | 50,536 | 51.4 | 49,814 | 50.1 |
| Pregnancy by Age Group |  |  |  |  |  |  |  |  |  |  |
| Female Aged 15-44 |  |  |  |  |  |  |  |  |  |  |
| 15-17 | 1,011 | 16.1 | 1,010 | 16.2 | 1,000 | 16.0 | 1,041 | 16.8 | 980 | 15.4 |
| 18-25 | 9,788 | 56.8 | 9,835 | 57.1 a | 9,856 | 57.2 a | 9,889 | 57.1 | 9,688 | 56.6 |
| 26-44 | 22,389 | 56.4 | 22,496 | 56.6 a | 22,536 | 56.7 a | 22,466 | 57.1 | 22,311 | 55.6 |
|  |  |  |  |  |  |  |  |  |  |  |
| $15-17$ $18-25$ | 71 | 9.4 | 66 | * * | 66 | * * | * | * 11.8 | * | * * |
| 18-25 | 71 | 9.4 | 66 | 8.8 | 66 | 8.7 | 98 | 11.8 | 43 | 6.5 a |
| 26-44 | 126 | 8.5 | 129 | 8.5 | 133 | 8.8 | 111 | 7.8 | 141 | 9.1 |
| Not Pregnant Female Aged 15-44 |  |  |  |  |  |  |  |  |  |  |
| 15-17 | 1,007 | 16.2 | 1,006 | 16.2 | 997 | 16.1 | 1,036 | 16.8 | 978 | 15.5 |
| 18-25 | 9,718 | 59.0 | 9,770 | 59.3 a | 9,790 | 59.5 a | 9,791 | 59.4 | 9,645 | 58.6 |
| 26-44 | 22,263 | 58.2 | 22,367 | 58.5 a | 22,403 | 58.6 a | 22,355 | 59.0 | 22,170 | 57.5 |

Table G. 1 Past Month Alcohol Use (continued)

| Domains | FE Sample (2015+2016) |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent |
| Pregnancy by Race |  |  |  |  |  |  |  |  |  |  |
| Female Aged 15-44 ${ }^{3}$ |  |  |  |  |  |  |  |  |  |  |
| White Only | 25,682 | 55.2 | 25,847 | 55.6 a | 25,852 | 55.6 a | 25,701 | 55.4 | 25,663 | 55.0 |
| Black Only | 4,551 | 48.0 | 4,533 | 47.9 | 4,548 | 48.0 | 4,697 | 50.0 | 4,404 | 46.1 a |
| NHOPI Only | 174 | 43.4 | 166 | 42.4 | 157 | 41.9 | 142 | 39.6 | 205 | 46.6 |
| Asian Only | 1,632 | 36.9 | 1,630 | 37.0 | 1,620 | 37.0 | 1,642 | 38.0 | 1,621 | 35.9 |
| AIAN Only | 314 | 36.5 | 323 | 36.5 | 373 | 40.6 | 336 | 39.2 | 293 | 33.9 |
| 2 or More Races | 835 | 54.7 | 843 | 54.5 | 843 | 54.3 | 878 | 57.9 | 792 | 51.5 a |
| Pregnant Female Aged 15-44 |  |  |  |  |  |  |  |  |  |  |
| White Only | 145 | 8.7 | 143 | 8.5 | 144 | 8.5 | 160 | 9.3 | 131 | 8.0 |
| Black Only | 39 | 10.7 | 39 | 10.4 | 41 | 11.2 | 50 | 13.1 | 27 | 8.0 |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * * |
| Asian Only | * | * | * | * * | * | * * | * | * | * | * * |
| AIAN Only | * | * | * | * * | * | * * | * | * | * | * * |
| 2 or More Races | * | * | * | * * | * | * * | * | * | * | * * |
| Not Pregnant Female Aged 15-44 |  |  |  |  |  |  |  |  |  |  |
| White Only | 25,537 | 56.9 | 25,704 | 57.3 a | 25,707 | 57.4 a | 25,541 | 57.1 | 25,533 | 56.7 |
| Black Only | 4,512 | 49.5 | 4,494 | 49.4 | 4,507 | 49.5 | 4,647 | 51.5 | 4,377 | 47.5 a |
| NHOPI Only | 169 | 43.5 | 161 | 42.5 | 152 | 41.8 | 142 | 40.2 | 195 | 46.3 |
| Asian Only | 1,627 | 38.1 | 1,626 | 38.1 | 1,616 | 38.2 | 1,642 | 39.1 | 1,612 | 37.1 |
| AIAN Only | 311 | 37.7 | 319 | 37.5 | 369 | 41.9 | 333 | 40.7 | 290 | 34.7 |
| 2 or More Races | 831 | 56.4 | 838 | 56.4 | 839 | 56.2 | 876 | 59.7 | 786 | 53.2 a |
| Pregnancy by Hispanicity |  |  |  |  |  |  |  |  |  |  |
| Female Aged 15-44 ${ }^{3}$ |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 5,361 | 41.7 | 5,361 | 41.8 | 5,340 | 41.6 | 5,358 | 41.9 | 5,363 | 41.5 |
| Not Hispanic/Latino | 27,827 | 55.2 | 27,980 | 55.5 a | 28,053 | 55.7 a | 28,038 | 56.0 | 27,616 | 54.5 a |
| Pregnant Female Aged 15-44 |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 31 | 6.5 | 32 | 6.5 | 32 | 6.3 | 45 | 9.4 | 17 | 3.5 |
| Not Hispanic/Latino | 169 | 9.4 | 167 | 9.2 | 171 | 9.4 | 169 | 9.3 | 170 | 9.5 |

(continued)

Table G. 1 Past Month Alcohol Use (continued)

| Domains | FE Sample (2015+2016) |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent |
| Not Pregnant Female Aged 15-44 Hispanic/Latino Not Hispanic/Latino | $\begin{array}{r} 5,330 \\ 27,658 \\ \hline \end{array}$ | $\begin{aligned} & 43.1 \\ & 56.9 \end{aligned}$ | $\begin{array}{r} 5,329 \\ 27,814 \\ \hline \end{array}$ | $\begin{array}{ll} 43.2 & \\ 57.3 & \text { a } \\ \hline \end{array}$ | $\begin{array}{r} 5,308 \\ 27,882 \end{array}$ | $\begin{array}{ll} 43.0 & \\ 57.4 & \text { a } \\ \hline \end{array}$ | $\begin{array}{r} 5,313 \\ 27,868 \\ \hline \end{array}$ | 43.2 57.7 | $\begin{array}{r} 5,346 \\ 27,447 \\ \hline \end{array}$ | $\begin{aligned} & 43.0 \\ & 56.2 \end{aligned}$ |

* = low precision; -- = not available; AIAN = American Indian or Alaska Native; FE = field enumeration; GQ = group quarters; NHOPI = Native Hawaiian or Other Pacific Islander; pop = population.
${ }^{1}$ Excludes those with unknown enrollment status.
${ }^{2}$ Other Persons include respondents aged 18 to 22 not enrolled in school, enrolled in college part time, enrolled in other grades either full or part time, or enrolled with no other information available.
${ }^{3}$ Excludes those with unknown pregnancy status.
$\stackrel{\rightharpoonup}{\square} \quad{ }^{a}$ The difference between this estimate and the person sample estimate is statistically significant at the .05 level.


## Appendix H. 2015-2016 NSDUH - Weighted Annual Averages Past Month Cigarette Use - CIGMON

Table H. 1 Past Month Cigarette Use

| Domains | FE Sample$(2015+2016)$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent |
| Age Group |  |  |  |  |  |  |  |  |  |  |
| 12+ | 51,642 | 19.2 | 50,992 | 19.0 a | 50,998 | 19.0 a | 51,952 | 19.4 | 51,333 | 19.1 |
| 12-17 | 947 | 3.8 | 951 | 3.8 | 941 | 3.8 | 1,039 | 4.2 | 855 | 3.4 a |
| 18+ | 50,695 | 20.8 | 50,041 | 20.5 a | 50,057 | 20.5 a | 50,912 | 21.0 | 50,478 | 20.6 |
| 18-25 | 8,725 | 25.1 | 8,653 | 24.9 a | 8,772 | 25.3 | 9,330 | 26.7 | 8,120 | 23.5 a |
| 26-49 | 24,656 | 24.9 | 24,325 | 24.6 a | 24,214 | 24.5 a | 25,037 | 25.4 | 24,274 | 24.5 |
| 50+ | 17,314 | 15.7 | 17,064 | 15.5 a | 17,071 | 15.5 a | 16,545 | 15.1 | 18,084 | 16.3 |
| Gender |  |  |  |  |  |  |  |  |  |  |
| Male | 27,990 | 21.5 | 27,663 | 21.3 a | 27,755 | 21.3 a | 28,318 | 21.8 | 27,662 | 21.2 |
| Female | 23,653 | 17.1 | 23,329 | 16.9 a | 23,243 | 16.8 a | 23,634 | 17.1 | 23,671 | 17.1 |
| Hispanicity |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 6,584 | 15.0 | 6,543 | 14.9 | 6,505 | 14.8 | 6,644 | 15.3 | 6,525 | 14.7 |
| Not Hispanic/Latino | 45,058 | 20.1 | 44,449 | 19.8 a | 44,493 | 19.8 a | 45,308 | 20.2 | 44,808 | 19.9 |
| Race |  |  |  |  |  |  |  |  |  |  |
| White Only | 41,023 | 19.6 | 40,490 | 19.3 a | 40,522 | 19.3 a | 41,047 | 19.6 | 40,998 | 19.5 |
| Black Only | 6,934 | 20.3 | 6,888 | 20.2 | 6,860 | 20.1 | 7,173 | 21.1 | 6,695 | 19.5 |
| NHOPI Only | 214 | 16.2 | 204 | 15.5 | 199 | 15.2 | 174 | 15.9 | 253 | 16.5 |
| Asian Only | 1,356 | 9.2 | 1,360 | 9.2 | 1,375 | 9.3 | 1,495 | 10.0 | 1,216 | 8.2 |
| AIAN Only | 711 | 22.4 | 701 | 22.0 | 688 | 21.6 | 686 | 21.7 | 736 | 23.0 |
| 2 or More Races | 1,406 | 25.3 | 1,348 | 24.3 a | 1,355 | 24.4 | 1,376 | 25.2 | 1,436 | 25.4 |
| Division |  |  |  |  |  |  |  |  |  |  |
| New England | 2,290 | 18.1 | 2,290 | 18.1 | 2,285 | 18.1 | 2,181 | 17.3 | 2,398 | 18.9 |
| Middle Atlantic | 6,510 | 18.5 | 6,478 | 18.4 | 6,462 | 18.4 | 6,527 | 18.6 | 6,494 | 18.5 |
| East North Central | 8,352 | 21.3 | 8,339 | 21.3 | 8,356 | 21.3 | 8,574 | 21.9 | 8,131 | 20.7 |
| West North Central | 3,578 | 20.5 | 3,516 | 20.1 a | 3,536 | 20.2 | 3,614 | 20.7 | 3,543 | 20.2 |
| South Atlantic | 10,394 | 19.5 | 10,112 | 19.0 a | 10,095 | 19.0 a | 10,278 | 19.4 | 10,510 | 19.6 |
| East South Central | 4,001 | 25.5 | 3,942 | 25.1 | 3,970 | 25.3 | 3,970 | 25.3 | 4,031 | 25.6 |
| West South Central | 6,617 | 20.8 | 6,481 | 20.4 a | 6,455 | 20.3 | 6,618 | 20.9 | 6,616 | 20.7 |
| Mountain | 3,415 | 17.5 | 3,409 | 17.5 | 3,427 | 17.6 | 3,526 | 18.2 | 3,304 | 16.8 |
| Pacific | 6,485 | 14.8 | 6,425 | 14.7 a | 6,412 | 14.6 a | 6,664 | 15.3 | 6,306 | 14.3 |

Table H. 1 Past Month Cigarette Use (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (2015+2016) \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\quad$ Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent |
| County Type |  |  |  |  |  |  |  |  |  |  |
| Large Metro | 25,693 | 17.2 | 26,002 | 17.1 | 26,405 | 17.2 | 26,126 | 17.5 | 25,259 | 16.8 |
| Small Metro, pop 250,000-1,000,000 | 11,300 | 20.3 | 11,269 | 20.1 a | 11,076 | 20.1 | 11,628 | 20.8 | 10,973 | 19.9 |
| Small Metro, <250,000 population | 5,464 | 21.4 | 5,377 | 21.2 | 5,386 | 21.4 | 5,479 | 21.4 | 5,449 | 21.3 |
| Nonmetro, 20,000 or more urban pop | 3,538 | 23.2 | 3,434 | 23.0 | 3,395 | 22.8 | 3,503 | 23.1 | 3,572 | 23.3 |
| Nonmetro, 2,500-19,999 urban pop | 4,564 | 25.1 | 3,992 | 24.0 a | 3,850 | 23.9 a | 4,031 | 23.7 | 5,098 | 26.4 |
| Nonmetro, <2,500 urban pop | 1,083 | 26.2 | 917 | 26.7 | 886 | 26.0 | 1,184 | 25.9 | 982 | 26.6 |
| College Enrollment |  |  |  |  |  |  |  |  |  |  |
| Persons Aged 18 to $22^{1}$ | 4,813 | 22.7 | 4,780 | 22.6 | 4,801 | 23.0 a | 5,170 | 24.3 | 4,456 | 21.1 a |
| Full-Time College Students | 1,144 | 14.4 | 1,157 | 14.5 | 1,104 | 14.7 | 1,215 | 15.4 | 1,073 | 13.5 |
| Other Persons Aged 18 to $22^{2}$ | 3,669 | 27.7 | 3,622 | 27.5 a | 3,697 | 27.7 | 3,955 | 29.6 | 3,383 | 25.8 a |
| Pregnancy |  |  |  |  |  |  |  |  |  |  |
| Female Aged 15-443 | 12,861 | 20.3 | 12,718 | 20.1 a | 12,731 | 20.1 a | 13,285 | 21.1 | 12,437 | 19.6 a |
| Pregnant Female Aged 15-44 | 270 | 11.9 | 270 | 11.7 | 272 | 11.7 | 314 | 13.6 | 226 | 10.0 |
| Not Pregnant Female Aged 15-44 | 12,591 | 20.7 | 12,448 | 20.4 a | 12,459 | 20.5 a | 12,971 | 21.4 | 12,210 | 19.9 a |
| Division by Age Group |  |  |  |  |  |  |  |  |  |  |
| New England |  |  |  |  |  |  |  |  |  |  |
| 12+ | 2,290 | 18.1 | 2,290 | 18.1 | 2,285 | 18.1 | 2,181 | 17.3 | 2,398 | 18.9 |
| 12-17 | 41 | 3.8 | 42 | 3.9 | 42 | 3.9 | 48 | 4.5 | 34 | 3.2 |
| 18+ | 2,249 | 19.4 | 2,249 | 19.4 | 2,243 | 19.4 | 2,133 | 18.5 | 2,364 | 20.4 |
| 18-25 | 426 | 25.8 | 426 | 25.8 | 442 | 26.8 | 457 | 27.7 | 395 | 23.9 |
| 26-49 | 1,017 | 22.9 | 1,018 | 22.9 | 1,001 | 22.6 | 999 | 22.4 | 1,034 | 23.4 |
| 50+ | 806 | 14.7 | 805 | 14.7 | 800 | 14.6 | 677 | 12.4 | 935 | 17.0 |
| Middle Atlantic |  |  |  |  |  |  |  |  |  |  |
| 12+ | 6,510 | 18.5 | 6,478 | 18.4 | 6,462 | 18.4 | 6,527 | 18.6 | 6,494 | 18.5 |
| 12-17 | 87 | 2.9 | 86 | 2.8 | 86 | 2.8 | 106 | 3.5 | 69 | 2.3 a |
| 18+ | 6,423 | 20.0 | 6,392 | 19.9 | 6,376 | 19.8 | 6,422 | 20.0 | 6,425 | 20.0 |
| 18-25 | 1,076 | 24.3 | 1,084 | 24.4 | 1,093 | 24.7 a | 1,133 | 25.4 | 1,020 | 23.2 |
| 26-49 | 3,090 | 24.1 | 3,068 | 23.9 | 3,043 | 23.7 | 3,116 | 24.2 | 3,065 | 23.9 |
| 50+ | 2,256 | 15.2 | 2,240 | 15.1 | 2,239 | 15.1 | 2,172 | 14.7 | 2,340 | 15.7 |

(continued)

Table H. 1 Past Month Cigarette Use (continued)

| Domains | FE Sample (2015+2016) |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in 1,000s) | Percent |
| East North Central |  |  |  |  |  |  |  |  |  |  |
| 12+ | 8,352 | 21.3 | 8,339 | 21.3 | 8,356 | 21.3 | 8,574 | 21.9 | 8,131 | 20.7 |
| 12-17 | 182 | 4.9 | 182 | 4.9 | 182 | 4.9 | 185 | 5.0 | 179 | 4.9 |
| 18+ | 8,170 | 23.0 | 8,158 | 23.0 | 8,174 | 23.0 | 8,389 | 23.6 | 7,952 | 22.4 |
| 18-25 | 1,404 | 27.7 | 1,400 | 27.6 | 1,408 | 27.8 | 1,542 | 30.3 | 1,267 | 25.1 a |
| 26-49 | 3,893 | 27.9 | 3,873 | 27.7 | 3,875 | 27.8 | 4,071 | 29.1 | 3,715 | 26.6 a |
| 50+ | 2,873 | 17.4 | 2,884 | 17.5 | 2,891 | 17.5 | 2,776 | 16.9 | 2,970 | 17.9 |
| West North Central |  |  |  |  |  |  |  |  |  |  |
| 12+ | 3,578 | 20.5 | 3,516 | 20.1 a | 3,536 | 20.2 | 3,614 | 20.7 | 3,543 | 20.2 |
| 12-17 | 87 | 5.3 | 85 | 5.1 | 83 | 5.0 | 91 | 5.5 | 83 | 5.0 |
| 18+ | 3,491 | 22.0 | 3,431 | 21.7 a | 3,453 | 21.8 | 3,522 | 22.3 | 3,460 | 21.8 |
| 18-25 | 648 | 27.9 | 635 | 27.3 | 655 | 28.2 | 660 | 28.4 | 637 | 27.5 |
| 26-49 | 1,650 | 26.5 | 1,612 | 25.9 a | 1,613 | 25.9 a | 1,664 | 26.8 | 1,636 | 26.3 |
| 50+ | 1,193 | 16.3 | 1,184 | 16.2 | 1,185 | 16.2 | 1,199 | 16.5 | 1,187 | 16.2 |
| South Atlantic |  |  |  |  |  |  |  |  |  |  |
| 12+ | 10,394 | 19.5 | 10,112 | 19.0 a | 10,095 | 19.0 a | 10,278 | 19.4 | 10,510 | 19.6 |
| 12-17 | 150 | 3.2 | 157 | 3.3 a | 153 | 3.2 | 150 | 3.2 | 151 | 3.2 |
| 18+ | 10,244 | 21.1 | 9,955 | 20.5 a | 9,942 | 20.5 a | 10,128 | 21.0 | 10,360 | 21.2 |
| 18-25 | 1,663 | 25.5 | 1,646 | 25.2 | 1,660 | 25.4 | 1,831 | 27.8 | 1,495 | 23.0 a |
| 26-49 | 4,847 | 25.2 | 4,692 | 24.4 a | 4,675 | 24.3 a | 4,990 | 26.0 | 4,703 | $24.3$ |
| $50+$ | 3,734 | 16.5 | 3,617 | 16.0 a | 3,607 | 15.9 a | 3,306 | 14.7 | 4,161 | 18.1 a |
| East South Central |  |  |  |  |  |  |  |  |  |  |
| 12+ | 4,001 | 25.5 | 3,942 | 25.1 | 3,970 | 25.3 | 3,970 | 25.3 | 4,031 | 25.6 |
| 12-17 | 78 | 5.3 | 77 | 5.3 | 79 | 5.3 | 80 | 5.4 | 77 | 5.3 |
| 18+ | 3,922 | 27.5 | 3,864 | 27.1 | 3,891 | 27.3 | 3,891 | 27.4 | 3,953 | 27.7 |
| 18-25 | 630 | 31.1 | 622 | 30.7 | 633 | 31.3 | 668 | 32.8 | 592 | 29.4 |
| 26-49 | 1,893 | 33.7 | 1,889 | 33.6 | 1,896 | 33.7 | 1,919 | 34.2 | 1,868 | 33.1 |
| 50+ | 1,399 | 21.2 | 1,353 | 20.5 | 1,362 | 20.7 | 1,304 | 19.9 | 1,494 | 22.5 |

(continued)

Table H. 1 Past Month Cigarette Use (continued)


Table H. 1 Past Month Cigarette Use (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (2015+2016) \\ \hline \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent |
| South Atlantic |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 867 | 12.6 | 877 | 12.8 | 876 | 12.8 | 882 | 13.0 | 853 | 12.3 |
| Not Hispanic/Latino | 9,527 | 20.6 | 9,235 | 19.9 a | 9,219 | 19.9 a | 9,396 | 20.4 | 9,657 | 20.7 |
| East South Central |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 111 | 20.0 | 113 | 20.4 | 111 | 20.0 | 101 | 18.3 | 121 | 21.7 |
| Not Hispanic/Latino | 3,890 | 25.7 | 3,829 | 25.3 | 3,859 | 25.5 | 3,870 | 25.6 | 3,910 | 25.7 |
| West South Central |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 1,447 | 16.4 | 1,422 | 16.1 | 1,384 | 15.7 a | 1,464 | 16.7 | 1,429 | 16.0 |
| Not Hispanic/Latino | 5,170 | 22.5 | 5,059 | 22.0 a | 5,071 | 22.1 | 5,154 | 22.5 | 5,187 | 22.5 |
| Mountain |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 677 | 15.2 | 686 | 15.4 | 692 | 15.5 | 680 | 15.4 | 674 | 15.0 |
| Not Hispanic/Latino | 2,738 | 18.2 | 2,723 | 18.1 | 2,735 | 18.2 | 2,846 | 19.0 | 2,630 | 17.4 |
| Pacific |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 1,716 | 13.1 | 1,715 | 13.1 | 1,728 | 13.2 | 1,760 | 13.5 | 1,672 | 12.7 |
| Not Hispanic/Latino | 4,769 | 15.5 | 4,710 | 15.3 a | 4,683 | 15.2 a | 4,904 | 16.0 | 4,634 | 15.0 |
| Division by Race |  |  |  |  |  |  |  |  |  |  |
| New England |  |  |  |  |  |  |  |  |  |  |
| White Only | 1,996 | 18.4 | 1,991 | 18.4 | 1,992 | 18.4 | 1,913 | 17.7 | 2,079 | 19.2 |
| Black Only | 152 | 16.7 | 155 | 16.9 | 150 | 16.4 | 123 | 13.6 | 182 | 19.7 |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * * |
| Asian Only | 44 | 7.6 | 50 | 8.8 | 52 | 9.1 | 60 | 10.7 | 29 | 4.7 |
| AIAN Only | * | * | * | * * | * | * * | * | * | * | * * |
| 2 or More Races | * | * | * | * * | * | * * | * | * | * | * |
| Middle Atlantic |  |  |  |  |  |  |  |  |  |  |
| White Only | 5,109 | 19.3 | 5,074 | 19.1 | 5,070 | 19.1 | 5,114 | 19.2 | 5,104 | 19.3 |
| Black Only | 954 | 18.6 | 948 | 18.5 | 935 | 18.3 | 966 | 18.9 | 942 | 18.4 |
| NHOPI Only | 22 | 15.5 | 23 | 15.4 | 23 | 15.4 | * | * |  | * * |
| Asian Only | 217 | 8.6 | 227 | 9.0 a | 228 | 9.1 a | 205 | 8.1 | 230 | 9.1 |
| AIAN Only | 38 | 16.1 | 38 | 16.1 | 38 | 16.1 | 37 | 15.6 | * | * * |
| 2 or More Races | 170 | 27.4 | 168 | 27.1 | 167 | 26.8 | 182 | 29.7 | 159 | 25.1 |

(continued)

Table H. 1 Past Month Cigarette Use (continued)

(continued)

Table H. 1 Past Month Cigarette Use (continued)


Table H. 1 Past Month Cigarette Use (continued)

(continued)

Table H. 1 Past Month Cigarette Use (continued)

| Domains | FE Sample (2015+2016) |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN <br> Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent |
| Nonmetro, <2,500 urban pop |  |  |  |  |  |  |  |  |  |  |
| $12+$ | 1,083 | 26.2 | 917 | 26.7 | 886 | 26.0 | 1,184 | 25.9 | 982 | 26.6 |
| 12-17 | 27 | 7.9 | 21 | 7.5 | 20 | 7.2 | 35 | 9.2 | 20 | 6.3 |
| 18+ | 1,056 | 27.9 | 896 | 28.4 | 867 | 27.7 | 1,149 | 27.4 | 962 | 28.5 |
| 18-25 | 149 | 37.0 | 110 | 35.2 | 113 | 36.5 | 148 | 33.4 | 149 | 41.5 |
| 26-49 | 474 | 36.3 | 413 | 39.1 a | 393 | 38.6 | 521 | 35.9 | 428 | 36.7 |
| 50+ | 433 | 20.8 | 373 | 20.9 | 360 | 20.0 | 480 | 20.8 | 385 | 20.9 |
| County Type by Hispanicity Large Metro |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 4,196 | 13.9 | 4,226 | 13.9 | 4,247 | 13.9 | 4,258 | 14.1 | 4,134 | 13.8 |
| Not Hispanic/Latino | 21,497 | 18.0 | 21,776 | 17.9 | 22,158 | 18.0 | 21,868 | 18.4 | 21,126 | 17.6 |
| Small Metro, pop 250,000-1,000,000 |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 1,509 | 17.2 | 1,461 | 16.8 | 1,428 | 16.7 a | 1,424 | 16.9 | 1,594 | 17.5 |
| Not Hispanic/Latino | 9,792 | 20.9 | 9,808 | 20.7 a | 9,648 | 20.7 | 10,204 | 21.4 | 9,379 | 20.3 |
| Small Metro, $<250,000$ population |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 421 | 15.4 | 418 | 15.4 | 405 | 15.2 | 452 | 17.3 | 390 | 13.6 |
| Not Hispanic/Latino | 5,043 | 22.1 | 4,959 | 21.9 | 4,980 | 22.1 | 5,027 | 21.9 | 5,059 | 22.3 |
| Nonmetro, 20,000 or more urban pop |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 248 | 20.4 | 247 | 21.0 | 243 | 20.7 | 292 | 22.4 | 204 | 18.0 |
| Not Hispanic/Latino | 3,290 | 23.4 | 3,188 | 23.2 | 3,152 | 23.0 | 3,212 | 23.2 | 3,368 | 23.7 |
| Nonmetro, 2,500-19,999 urban pop |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 173 | 17.6 | 156 | 17.8 | 151 | 17.3 | 180 | 21.9 | 166 | 14.6 |
| Not Hispanic/Latino | 4,391 | 25.5 | 3,836 | 24.3 a | 3,699 | 24.3 a | 3,851 | 23.8 | 4,932 | 27.1 a |
| Nonmetro, $<2,500$ urban pop |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 38 | 26.9 | * | * * | * | * * | * | * | * | * * |
| Not Hispanic/Latino | 1,045 | 26.2 | 882 | 26.7 | 855 | 26.1 | 1,145 | 26.0 | 945 | 26.4 |
| County Type by Race |  |  |  |  |  |  |  |  |  |  |
| Large Metro |  |  |  |  |  |  |  |  |  |  |
| White Only | 19,184 | 17.4 | 19,453 | 17.3 | 19,779 | 17.4 | 19,359 | 17.6 | 19,009 | 17.2 |
| Black Only | 4,370 | 19.4 | 4,400 | 19.3 | 4,418 | 19.2 | 4,594 | 20.6 | 4,146 | 18.3 |
| NHOPI Only | 135 | 16.0 | 124 | 14.6 | 119 | 14.0 | 106 | 15.5 | 164 | 16.3 |
| Asian Only | 1,079 | 9.2 | 1,093 | 9.2 | 1,092 | 9.2 | 1,143 | 9.8 | 1,015 | 8.6 |
| AIAN Only | 247 | 16.3 | 249 | 16.4 | 280 | 16.9 | 246 | 15.7 | 249 | 17.0 |
| 2 or More Races | 678 | 23.3 | 682 | 22.6 | 716 | 23.1 | 678 | 24.0 | 678 | 22.7 |

Table H. 1 Past Month Cigarette Use (continued)


Table H. 1 Past Month Cigarette Use (continued)

| Domains | FE Sample (2015+2016) |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \hline \text { Total } \\ \text { (Numbers } \\ \text { in } \mathbf{1 , 0 0 0 s} \text { ) } \\ \hline \end{gathered}$ | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | $\begin{gathered} \hline \text { Total } \\ \text { (Numbers } \\ \text { in } \mathbf{1 , 0 0 0 s} \text { ) } \\ \hline \end{gathered}$ | Percent |
| Nonmetro, <2,500 urban pop |  |  |  |  |  |  |  |  |  |  |
| White Only | 945 | 26.1 | 819 | 26.6 | 808 | 26.3 | 1,015 | 25.3 | 874 | 27.1 |
| Black Only | 46 | 17.0 | 29 | 16.5 | 30 | 16.7 | * | * | * | * |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * * |
| Asian Only | * | * | * | * * | * | * * | * | * | * | * * |
| AIAN Only | 53 | 46.9 | 46 | 61.5 a | * | * * | 45 | 46.7 | * | * * |
| 2 or More Races | * | * | * | * * | * | * * | * | * | * | * |
| College Enrollment by Gender |  |  |  |  |  |  |  |  |  |  |
| Persons Aged 18 to $22^{1}$ |  |  |  |  |  |  |  |  |  |  |
| Male | 2,807 | 25.9 | 2,773 | 25.6 a | 2,782 | 26.0 | 2,963 | 27.3 | 2,651 | 24.4 |
| Female | 2,006 | 19.4 | 2,007 | 19.5 | 2,019 | 19.9 a | 2,207 | 21.2 | 1,805 | 17.7 |
| Full-Time College Students |  |  |  |  |  |  |  |  |  |  |
| Male | 650 | 17.7 | 657 | 17.7 | 628 | 18.1 | 707 | 18.9 | 593 | 16.5 |
| Female | 495 | 11.6 | 501 | 11.7 | 477 | 11.9 | 509 | 12.2 | 481 | 11.0 |
| Other Persons Aged 18 to $22^{2}$ |  |  |  |  |  |  |  |  |  |  |
| Male | 2,157 | 30.0 | 2,116 | 29.6 a | 2,155 | 29.8 | 2,256 | 31.7 | 2,058 | 28.4 a |
| Female | 1,511 | 25.0 | 1,506 | 25.0 | 1,542 | 25.2 | 1,698 | 27.1 | 1,324 | 22.6 a |
| Age Group by Gender |  |  |  |  |  |  |  |  |  |  |
| 12+ |  |  |  |  |  |  |  |  |  |  |
| Male | 27,990 | 21.5 | 27,663 | 21.3 a | 27,755 | 21.3 a | 28,318 | 21.8 | 27,662 | 21.2 |
| Female | 23,653 | 17.1 | 23,329 | 16.9 a | 23,243 | 16.8 a | 23,634 | 17.1 | 23,671 | 17.1 |
| 12-17 |  |  |  |  |  |  |  |  |  |  |
| Male | 528 | 4.2 | 530 | 4.2 | 525 | 4.1 | 578 | 4.6 | 478 | 3.8 a |
| Female | 419 | 3.4 | 421 | 3.4 | 416 | 3.4 | 462 | 3.8 | 377 | 3.1 |
| 18+ |  |  |  |  |  |  |  |  |  |  |
| Male | 27,462 | 23.4 | 27,133 | 23.1 a | 27,230 | 23.2 a | 27,740 | 23.7 | 27,184 | 23.1 |
| Female | 23,234 | 18.4 | 22,908 | 18.2 a | 22,827 | 18.1 a | 23,172 | 18.4 | 23,295 | 18.4 |
| 18-25 |  |  |  |  |  |  |  |  |  |  |
| Male | 5,093 | 29.2 | 5,027 | 28.8 a | 5,085 | 29.1 | 5,380 | 30.7 | 4,805 | 27.7 |
| Female | 3,633 | 21.0 | 3,626 | 21.0 | 3,687 | 21.3 a | 3,950 | 22.7 | 3,315 | 19.3 a |
| 26-49 |  |  |  |  |  |  |  |  |  |  |
| Male | 13,534 | 27.8 | 13,365 | 27.5 a | 13,314 | 27.4 a | 13,784 | 28.4 | 13,284 | 27.2 |
| Female | 11,122 | 22.1 | 10,960 | $21.8 \quad$ a | 10,901 | 21.7 a | 11,253 | 22.4 | 10,990 | 21.8 |

Table H. 1 Past Month Cigarette Use (continued)

| Domains | FE Sample (2015+2016) |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in $1,000 s$ ) | Percent |
| 50+ |  |  |  |  |  |  |  |  |  |  |
| Male | 8,835 | 17.2 | 8,741 | 17.0 | 8,832 | 17.2 | 8,576 | 16.8 | 9,095 | 17.6 |
| Female | 8,479 | 14.5 | 8,323 | 14.2 a | 8,239 | 14.1 a | 7,969 | 13.7 | 8,989 | 15.2 a |
| Age Group by Race $12+$ |  |  |  |  |  |  |  |  |  |  |
| White Only | 41,023 | 19.6 | 40,490 | 19.3 a | 40,522 | 19.3 a | 41,047 | 19.6 | 40,998 | 19.5 |
| Black Only | 6,934 | 20.3 | 6,888 | 20.2 | 6,860 | 20.1 | 7,173 | 21.1 | 6,695 | 19.5 |
| NHOPI Only | 214 | 16.2 | 204 | 15.5 | 199 | 15.2 | 174 | 15.9 | 253 | 16.5 |
| Asian Only | 1,356 | 9.2 | 1,360 | 9.2 | 1,375 | 9.3 | 1,495 | 10.0 | 1,216 | 8.2 |
| AIAN Only | 711 | 22.4 | 701 | 22.0 | 688 | 21.6 | 686 | 21.7 | 736 | 23.0 |
| 2 or More Races | 1,406 | 25.3 | 1,348 | 24.3 a | 1,355 | 24.4 | 1,376 | 25.2 | 1,436 | 25.4 |
| 12-17 |  |  |  |  |  |  |  |  |  |  |
| White Only | 786 | 4.3 | 783 | 4.3 | 778 | 4.2 | 863 | 4.7 | 708 | 3.9 a |
| Black Only | 77 | 2.1 | 80 | 2.1 | 78 | 2.1 | 94 | 2.5 | 59 | 1.6 |
| NHOPI Only | 5 | 2.8 | 5 | 2.8 | 5 | 2.8 | * | * | 2 | 1.1 * |
| Asian Only | 15 | 1.2 | 15 | 1.1 | 15 | 1.1 | 14 | 1.1 | 17 | 1.2 |
| AIAN Only | 15 | 3.9 | 16 | 4.1 | 15 | 3.6 | 14 | 3.5 | 16 | 4.3 |
| 2 or More Races | 49 | 5.3 | 51 | 5.5 | 50 | 5.4 | 46 | 5.1 | 52 | 5.5 |
| 18+ |  |  |  |  |  |  |  |  |  |  |
| White Only | 40,237 | 21.0 | 39,706 | 20.8 a | 39,744 | 20.8 a | 40,184 | 21.1 | 40,289 | 21.0 |
| Black Only | 6,858 | 22.6 | 6,809 | 22.4 | 6,782 | 22.3 | 7,080 | 23.5 | 6,635 | 21.7 |
| NHOPI Only | 209 | 18.4 | 200 | 17.3 | 194 | 17.0 | 166 | 18.4 | 251 | 18.4 |
| Asian Only | 1,340 | 9.9 | 1,345 | 10.0 | 1,360 | 10.1 | 1,481 | 10.9 | 1,199 | 9.0 |
| AIAN Only | 696 | 25.0 | 684 | 24.6 | 673 | 24.3 | 672 | 24.5 | 720 | 25.5 |
| 2 or More Races | 1,357 | 29.3 | 1,297 | 28.1 a | 1,305 | 28.2 | 1,329 | 29.3 | 1,384 | 29.4 |
| 18-25 |  |  |  |  |  |  |  |  |  |  |
| White Only | 6,895 | 27.0 | 6,842 | 26.8 a | 6,918 | 27.1 | 7,284 | 28.3 | 6,506 | 25.6 a |
| Black Only | 1,067 | 20.0 | 1,060 | 19.9 | 1,071 | 20.1 | 1,208 | 22.5 | 926 | 17.5 a |
| NHOPI Only | 56 | 23.6 | 56 | 23.6 | 53 | 22.9 | 57 | 23.1 | 55 | 24.1 |
| Asian Only | 259 | 12.2 | 265 | 12.4 | 280 | 13.3 a | 288 | 13.9 | 229 | 10.5 |
| AIAN Only | 152 | 28.9 | 142 | 26.9 | 145 | 26.8 | 142 | 27.5 | 162 | 30.4 |
| 2 or More Races | 296 | 30.7 | 288 | 30.0 | 304 | 31.3 | 350 | 35.0 | 242 | 26.2 a |

Table H. 1 Past Month Cigarette Use (continued)


Table H. 1 Past Month Cigarette Use (continued)

| Domains | FE Sample$(2015+2016)$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total <br> (Numbers <br> in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent |
| Pregnancy by Age Group |  |  |  |  |  |  |  |  |  |  |
| Female Aged 15-44 ${ }^{3}$ |  |  |  |  |  |  |  |  |  |  |
| 15-17 | 363 | 5.8 | 365 | 5.8 | 361 | 5.8 | 409 | 6.6 | 317 | 5.0 a |
| 18-25 | 3,612 | 21.0 | 3,604 | 20.9 | 3,666 | 21.3 a | 3,927 | 22.7 | 3,297 | 19.3 a |
| 26-44 | 8,887 | 22.4 | 8,749 | 22.0 a | 8,703 | 21.9 a | 8,950 | 22.7 | 8,823 | 22.0 |
| Pregnant Female Aged 15-44 15-17 | * | * | * | * * | * | * * | * | * | * | * * |
| $18-25$ | 137 | 18.3 | 131 | 17.6 | 131 | 17.2 | 190 | 22.9 | 84 | 12.6 a |
| 26-44 | 128 | 8.6 | 134 | 8.8 | 136 | 9.0 | 115 | 8.1 | 142 | 9.1 |
| Not Pregnant Female Aged 15-44 |  |  |  |  |  |  |  |  |  |  |
| 15-17 | 357 | 5.7 | 359 | 5.8 | 356 | 5.7 | 399 | 6.5 | 316 | 5.0 a |
| 18-25 | 3,475 | 21.1 | 3,473 | 21.1 | 3,535 | 21.5 a | 3,737 | 22.7 | 3,213 | 19.5 a |
| 26-44 | 8,758 | 22.9 | 8,615 | 22.5 a | 8,568 | 22.4 a | 8,835 | 23.3 | 8,681 | 22.5 |
| Pregnancy by Race |  |  |  |  |  |  |  |  |  |  |
| Female Aged 15-44 ${ }^{3}$ |  |  |  |  |  |  |  |  |  |  |
| White Only | 10,235 | 22.0 | 10,125 | 21.8 a | 10,115 | 21.7 a | 10,464 | 22.5 | 10,007 | 21.4 |
| Black Only | 1,680 | 17.7 | 1,651 | 17.4 | 1,655 | 17.5 | 1,833 | 19.5 | 1,527 | 16.0 a |
| NHOPI Only | 68 | 16.9 | 58 | 14.9 | 58 | 15.4 | 50 | 13.9 | * | * * |
| Asian Only | 266 | 6.0 | 264 | 6.0 | 272 | 6.2 | 294 | 6.8 | 237 | 5.3 |
| AIAN Only | 186 | 21.6 | 203 | 23.0 a | 204 | 22.2 | 180 | 21.0 | 193 | 22.3 |
| 2 or More Races | 426 | 27.9 | 416 | 26.9 a | 427 | 27.5 | 464 | 30.6 | 388 | 25.2 |
| Pregnant Female Aged 15-44 |  |  |  |  |  |  |  |  |  |  |
| White Only | 212 | 12.6 | 211 | 12.6 | 215 | 12.7 | 232 | 13.6 | 192 | 11.7 |
| Black Only | 35 | 9.7 | 34 | 9.1 | 32 | 8.6 | 53 | 14.0 | 16 | 4.8 a |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * * |
| Asian Only | * | * | * | * * | * | * * | * | * | * | * * |
| AIAN Only | * | * | * | * * | * | * * | * | * | * | * * |
| 2 or More Races | * | * | * | * * | * | * * | * | * | * | * * |

(continued)

Table H. 1 Past Month Cigarette Use (continued)

| Domains | FE Sample$(2015+2016)$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total <br> (Numbers <br> in 1,000s) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in 1,000s) | Percent |
| Not Pregnant Female Aged 15-44 |  |  |  |  |  |  |  |  |  |  |
| White Only | 10,023 | 22.3 | 9,914 | 22.1 a | 9,899 | 22.1 a | 10,232 | 22.9 | 9,815 | 21.8 |
| Black Only | 1,645 | 18.1 | 1,617 | 17.8 | 1,624 | 17.8 | 1,780 | 19.7 | 1,511 | 16.4 a |
| NHOPI Only | 67 | 17.3 | 58 | 15.3 | 57 | 15.8 | 49 | 13.9 | * | * * |
| Asian Only | 260 | 6.1 | 258 | 6.1 | 266 | 6.3 | 288 | 6.9 | 232 | 5.3 |
| AIAN Only | 184 | 22.2 | 201 | 23.6 a | 201 | 22.8 | 177 | 21.6 | 190 | 22.8 |
| 2 or More Races | 411 | 27.9 | 400 | 26.9 a | 412 | 27.6 | 445 | 30.3 | 377 | 25.5 |
| Pregnancy by Hispanicity |  |  |  |  |  |  |  |  |  |  |
| Female Aged 15-44 ${ }^{3}$ |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 1,681 | 13.1 | 1,664 | 13.0 | 1,649 | 12.8 | 1,746 | 13.7 | 1,617 | 12.5 |
| Not Hispanic/Latino | 11,180 | 22.2 | 11,054 | 21.9 a | 11,082 | 22.0 a | 11,540 | 23.0 | 10,820 | 21.4 a |
| Pregnant Female Aged 15-44 |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 28 | 5.9 | 30 | 6.1 | 30 | 6.0 | 23 | 4.8 | 34 | 7.0 |
| Not Hispanic/Latino | 242 | 13.4 | 240 | 13.3 | 242 | 13.3 | 291 | 15.9 | 193 | 10.9 a |
| Not Pregnant Female Aged 15-44 |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 1,653 | 13.4 | 1,634 | 13.2 | 1,619 | 13.1 | 1,723 | 14.0 | 1,583 | 12.7 |
| Not Hispanic/Latino | 10,938 | 22.5 | 10,814 | 22.3 a | 10,840 | 22.3 a | 11,249 | 23.3 | 10,627 | 21.7 a |

* = low precision; -- = not available; AIAN = American Indian or Alaska Native; FE = field enumeration; GQ = group quarters; NHOPI = Native Hawaiian or Other Pacific Islander; pop = population.
${ }^{1}$ Excludes those with unknown enrollment status.
${ }^{2}$ Other Persons include respondents aged 18 to 22 not enrolled in school, enrolled in college part time, enrolled in other grades either full or part time, or enrolled with no other information available.
${ }^{3}$ Excludes those with unknown pregnancy status.
${ }^{a}$ The difference between this estimate and the person sample estimate is statistically significant at the .05 level.

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## Appendix I: 2015-2016 NSDUH - Weighted Annual Averages Past Year Alcohol Use Disorder - ABODALC

Table I. 1 Past Year Alcohol Use Disorder

| Domains | $\begin{gathered} \text { FE Sample } \\ (2015+2016) \\ \hline \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total <br> (Numbers <br> in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent |
| Age Group |  |  |  |  |  |  |  |  |  |  |
| 12+ | 15,396 | 5.7 | 15,535 | 5.8 a | 15,548 | 5.8 a | 15,736 | 5.9 | 15,057 | 5.6 |
| 12-17 | 555 | 2.2 | 558 | 2.2 | 556 | 2.2 | 623 | 2.5 | 488 | 2.0 |
| 18+ | 14,841 | 6.1 | 14,977 | 6.1 a | 14,992 | 6.2 a | 15,113 | 6.2 | 14,569 | 6.0 |
| 18-25 | 3,752 | 10.8 | 3,792 | 10.9 a | 3,772 | 10.9 | 3,821 | 10.9 | 3,684 | 10.7 |
| 26-49 | 7,346 | 7.4 | 7,386 | 7.5 | 7,429 | 7.5 a | 7,519 | 7.6 | 7,173 | 7.2 |
| 50+ | 3,742 | 3.4 | 3,799 | 3.5 | 3,791 | 3.4 | 3,772 | 3.5 | 3,713 | 3.4 |
| Gender |  |  |  |  |  |  |  |  |  |  |
| Male | 9,751 | 7.5 | 9,841 | 7.6 a | 9,859 | 7.6 | 10,104 | 7.8 | 9,398 | 7.2 |
| Female | 5,645 | 4.1 | 5,694 | 4.1 a | 5,690 | 4.1 | 5,631 | 4.1 | 5,659 | 4.1 |
| Hispanicity |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 2,536 |  | 2,567 |  | 2,560 |  | 2,790 | 6.4 | 2,282 | 5.1 |
| Not Hispanic/Latino | 12,861 | 5.7 | 12,968 | 5.8 a | 12,989 | 5.8 a | 12,946 | 5.8 | 12,775 | 5.7 |
| Race |  |  |  |  |  |  |  |  |  |  |
| White Only | 12,441 | 5.9 | 12,543 | 6.0 a | 12,552 | 6.0 | 12,883 | 6.2 | 11,999 | 5.7 |
| Black Only | 1,814 | 5.3 | 1,837 | 5.4 | 1,845 | 5.4 | 1,713 | 5.0 | 1,914 | 5.6 |
| NHOPI Only | 58 | 4.4 | 55 | 4.2 | 50 | 3.8 | 62 | 5.7 | 53 | 3.5 |
| Asian Only | 459 | 3.1 | 462 | 3.1 | 454 | 3.1 | 480 | 3.2 | 438 | 3.0 |
| AIAN Only | 254 | 8.0 | 253 | 8.0 | 262 | 8.3 | 268 | 8.5 | 241 | 7.5 |
| 2 or More Races | 371 | 6.7 | 385 | 6.9 | 385 | 6.9 | 330 | 6.1 | 412 | 7.3 |
| Division |  |  |  |  |  |  |  |  |  |  |
| New England | 941 | 7.4 | 958 | 7.6 | 942 | 7.5 | 902 | 7.1 | 981 | 7.7 |
| Middle Atlantic | 1,984 | 5.6 | 2,008 | 5.7 a | 1,994 | 5.7 | 2,071 | 5.9 | 1,896 | 5.4 |
| East North Central | 2,319 | 5.9 | 2,351 | 6.0 | 2,348 | 6.0 | 2,276 | 5.8 | 2,362 | 6.0 |
| West North Central | 1,015 | 5.8 | 1,015 | 5.8 | 1,024 | 5.9 | 1,032 | 5.9 | 998 | 5.7 |
| South Atlantic | 2,805 | 5.3 | 2,798 | 5.3 | 2,789 | 5.2 | 2,811 | 5.3 | 2,799 | 5.2 |
| East South Central | 681 | 4.3 | 727 | 4.6 a | 721 | 4.6 a | 713 | 4.6 | 648 | 4.1 |
| West South Central | 1,675 | 5.3 | 1,687 | 5.3 | 1,735 | 5.5 | 1,789 | 5.7 | 1,560 | 4.9 |
| Mountain | 1,107 | 5.7 | 1,123 | 5.8 | 1,121 | 5.7 | 1,107 | 5.7 | 1,108 | 5.6 |
| Pacific | 2,869 | 6.5 | 2,869 | 6.5 | 2,874 | 6.6 | 3,033 | 6.9 | 2,704 | 6.1 |

Table I. 1 Past Year Alcohol Use Disorder (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (2015+2016) \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in $1,000 s$ ) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent |
| County TypeLarge MetroSmall Metro, pop 250,000-1,000,000Small Metro, < 250,000 populationNonmetro, 20,000 or more urban popNonmetro, 2,500-19,999 urban popNonmetro, <2,500 urban popCollege EnrollmentPersons Aged 18 to 22Full-Time College StudentsOther Persons Aged 18 to $22^{2}$PregnancyFemale Aged 15-44Pregnant Female Aged 15-44Not Pregnant Female Aged 15-44Division by Age GroupNew England$12+$$12-17$$18+$$18-25$$26-49$$50+$Middle Atlantic$12+$$12-17$$18+$$18-25$$26-49$$50+$ |  |  |  |  |  |  |  |  |  |  |
|  | 8,992 | 6.0 | 9,122 | 6.0 | 9,239 | 6.0 | 9,283 | 6.2 | 8,701 | 5.8 |
|  | 3,121 | 5.6 | 3,182 | 5.7 a | 3,114 | 5.7 | 3,174 | 5.7 | 3,067 | 5.6 |
|  | 1,494 | 5.8 | 1,520 | 6.0 a | 1,523 | 6.0 a | 1,468 | 5.7 | 1,521 | 6.0 |
|  | 817 | 5.4 | 826 | 5.5 | 815 | 5.5 | 848 | 5.6 | 786 | 5.1 |
|  | 831 | 4.6 | 762 | 4.6 | 739 | 4.6 | 829 | 4.9 | 833 | 4.3 |
|  | 142 | 3.4 | 123 | 3.6 | 118 | 3.5 | 134 | 2.9 | 149 | 4.0 |
|  |  |  |  |  |  |  |  |  |  |  |
|  | 2,175 | 10.3 | 2,195 | 10.4 | 2,145 | 10.3 | 2,227 | 10.5 | 2,124 | 10.1 |
|  | 873 | 11.0 | 896 | 11.2 a | 828 | 11.1 | 884 | 11.2 | 863 | 10.8 |
|  | 1,302 | 9.8 | 1,299 | 9.9 | 1,317 | 9.9 | 1,343 | 10.0 | 1,261 | 9.6 |
|  |  |  |  |  |  |  |  |  |  |  |
|  | 3,973 | 6.3 | 4,017 | 6.4 a | 4,018 | 6.4 | 4,030 | 6.4 | 3,916 | 6.2 |
|  | 117 | 5.1 | 121 | 5.3 | 124 | 5.4 | 143 | 6.2 | 90 | 4.0 |
|  | 3,857 | 6.3 | 3,896 | 6.4 a | 3,893 | 6.4 | 3,887 | 6.4 | 3,826 | 6.2 |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  | 941 | 7.4 | 958 | 7.6 | 942 | 7.5 | 902 | 7.1 | 981 | 7.7 |
|  | 28 | 2.6 | 28 | 2.6 | 28 | 2.6 | 28 | 2.6 | 28 | 2.7 |
|  | 913 | 7.9 | 930 | 8.0 | 914 | 7.9 | 874 | 7.6 | 952 | 8.2 |
|  | 210 | 12.7 | 214 | 13.0 a | 202 | 12.2 | 189 | 11.5 | 231 | 14.0 |
|  | 411 | 9.3 | 406 | 9.1 | 402 | 9.1 | 445 | 10.0 | 377 | 8.5 |
|  | 292 | 5.3 | 310 | 5.7 a | 310 | 5.7 a | 239 | 4.4 | 345 | 6.3 |
|  |  |  |  |  |  |  |  |  |  |  |
|  | 1,984 | 5.6 | 2,008 | 5.7 a | 1,994 | 5.7 | 2,071 | 5.9 | 1,896 | 5.4 |
|  | 65 | 2.2 | 66 | 2.2 | 66 | 2.2 | 82 | 2.7 | 49 | 1.6 |
|  | 1,918 | 6.0 | 1,942 | 6.0 a | 1,928 | 6.0 | 1,989 | 6.2 | 1,847 | 5.8 |
|  | 543 | 12.2 | 545 | 12.3 | 538 | 12.1 | 587 | 13.1 | 499 | 11.3 |
|  | 915 | 7.1 | 923 | 7.2 | 917 | 7.1 | 942 | 7.3 | 888 | 6.9 |
|  | 460 | 3.1 | 473 | 3.2 a | 473 | 3.2 a | 460 | 3.1 | 461 | 3.1 |

Table I. 1 Past Year Alcohol Use Disorder (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (2015+2016) \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in 1,000s) | Percent | Total <br> (Numbers <br> in 1,000s) | Percent |
| East North Central |  |  |  |  |  |  |  |  |  |  |
| 12+ | 2,319 | 5.9 | 2,351 | 6.0 | 2,348 | 6.0 | 2,276 | 5.8 | 2,362 | 6.0 |
| 12-17 | 84 | 2.3 | 85 | 2.3 a | 86 | 2.3 a | 101 | 2.7 | 66 | 1.8 |
| 18+ | 2,236 | 6.3 | 2,266 | 6.4 | 2,263 | 6.4 | 2,175 | 6.1 | 2,296 | 6.5 |
| 18-25 | 565 | 11.2 | 568 | 11.2 | 566 | 11.2 | 597 | 11.7 | 534 | 10.6 |
| 26-49 | 1,049 | 7.5 | 1,063 | 7.6 | 1,062 | 7.6 | 1,025 | 7.3 | 1,073 | 7.7 |
| 50+ | 621 | 3.8 | 635 | 3.9 | 635 | 3.8 | 553 | 3.4 | 690 | 4.2 |
| West North Central |  |  |  |  |  |  |  |  |  |  |
| 12+ | 1,015 | 5.8 | 1,015 | 5.8 | 1,024 | 5.9 | 1,032 | 5.9 | 998 | 5.7 |
| 12-17 | 39 | 2.4 | 37 | 2.3 | 37 | 2.2 | 30 | 1.8 | 49 | 3.0 |
| 18+ | 976 | 6.2 | 978 | 6.2 | 987 | 6.2 | 1,003 | 6.3 | 949 | 6.0 |
| 18-25 | 274 | 11.8 | 274 | 11.8 | 275 | 11.8 | 284 | 12.2 | 264 | 11.4 |
| 26-49 | 473 | 7.6 | 474 | 7.6 | 480 | 7.7 | 493 | 7.9 | 452 | 7.3 |
| 50+ | 229 | 3.1 | 229 | 3.1 | 232 | 3.2 | 226 | 3.1 | 232 | 3.2 |
| South Atlantic |  |  |  |  |  |  |  |  |  |  |
| $12+$ | 2,805 |  | 2,798 |  | 2,789 | 5.2 | 2,811 | 5.3 | 2,799 | 5.2 |
| 12-17 | 83 | 1.8 | 84 | 1.8 | 85 | 1.8 | 99 | 2.1 | 66 | 1.4 a |
| 18+ | 2,723 | 5.6 | 2,714 | 5.6 | 2,704 | 5.6 | 2,712 | 5.6 | 2,733 | 5.6 |
| 18-25 | 652 | 10.0 | 669 | 10.2 a | 660 | 10.1 | 647 | 9.8 | 656 | 10.1 |
| 26-49 | 1,358 | 7.0 | 1,342 | 7.0 | 1,340 | 7.0 | 1,437 | 7.5 | 1,279 | 6.6 |
| 50+ | 713 | 3.1 | 703 | 3.1 | 703 | 3.1 | 628 | 2.8 | 798 | 3.5 |
| East South Central |  |  |  |  |  |  |  |  |  |  |
| 12+ |  |  | 727 | $4.6 \quad \mathrm{a}$ | 721 | 4.6 a | 713 | 4.6 | 648 |  |
| 12-17 | 19 | 1.3 | 19 | 1.3 | 19 | 1.3 | 21 | 1.4 | 18 | 1.2 |
| 18+ | 662 | 4.6 | 708 | 5.0 a | 702 | 4.9 a | 693 | 4.9 | 630 | 4.4 |
| 18-25 | 173 | 8.5 | 182 | 9.0 a | 183 | 9.0 | 166 | 8.2 | 180 | 8.9 |
| 26-49 | 344 | 6.1 | 368 | 6.5 a | 363 | 6.5 | 330 | 5.9 | 358 | 6.4 |
| 50+ | 144 | 2.2 | 158 | 2.4 | 156 | 2.4 | 196 | 3.0 | 92 | 1.4 |
| West South Central |  |  |  |  |  |  |  |  |  |  |
| 12+ | 1,675 | 5.3 | 1,687 | 5.3 | 1,735 | 5.5 | 1,789 | 5.7 | 1,560 | 4.9 |
| 12-17 | 95 | 2.9 | 95 | 2.9 | 95 | 2.9 | 111 | 3.4 | 79 | 2.4 |
| 18+ | 1,580 | 5.5 | 1,592 | 5.6 | 1,640 | 5.8 | 1,678 | 5.9 | 1,481 | 5.2 |
| 18-25 | 404 | 9.3 | 405 | 9.3 | 404 | 9.3 | 411 | 9.5 | 397 | 9.2 |
| 26-49 | 808 | 6.6 | 814 | 6.6 | 863 | 7.0 a | 861 | 7.1 | 754 | 6.1 |
| 50+ | 368 | 3.1 | 373 | 3.1 | 373 | 3.1 | 406 | 3.5 | 330 | 2.8 |

Table I. 1 Past Year Alcohol Use Disorder (continued)

(continued)

Table I. 1 Past Year Alcohol Use Disorder (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (2015+2016) \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total <br> (Numbers <br> in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent |
| West South Central |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 479 | 5.4 | 489 | 5.5 | 497 | 5.6 | 595 | 6.8 | 364 | 4.1 a |
| Not Hispanic/Latino | 1,195 | 5.2 | 1,197 | 5.2 | 1,239 | 5.4 | 1,194 | 5.2 | 1,196 | 5.2 |
| Mountain |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 224 | 5.0 | 227 | 5.1 | 227 | 5.1 | 246 | 5.6 | 202 | 4.5 |
| Not Hispanic/Latino | 884 | 5.9 | 895 | 6.0 | 894 | 5.9 | 861 | 5.8 | 906 | 6.0 |
| Pacific |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 896 | 6.9 | 895 | 6.8 | 893 | 6.8 | 993 | 7.6 | 798 | 6.1 |
| Not Hispanic/Latino | 1,973 | 6.4 | 1,974 | 6.4 | 1,982 | 6.4 | 2,040 | 6.6 | 1,906 | 6.2 |
| Division by Race |  |  |  |  |  |  |  |  |  |  |
| New England |  |  |  |  |  |  |  |  |  |  |
| White Only | 826 | 7.6 | 829 | 7.7 | 820 | 7.6 | 782 | 7.2 | 870 | 8.0 |
| Black Only | 53 | 5.8 | 56 | 6.1 | 52 | 5.7 | 50 | 5.5 | 57 | 6.2 |
| NHOPI Only | * | * | * | * | * | * * | * | * |  | * * |
| Asian Only | 16 | 2.7 | 18 | 3.2 | 19 | 3.3 | 22 | 3.9 | 9 | 1.5 |
| AIAN Only | 1 | 2.0 | 1 | 1.4 | 1 | 1.5 | 2 | 3.1 | 1 | 0.9 |
| 2 or More Races | * | * | * | * * | * | * * | * | * | * | * |
| Middle Atlantic |  |  |  |  |  |  |  |  |  |  |
| White Only | 1,533 | 5.8 | 1,553 | 5.9 a | 1,549 | 5.8 | 1,627 | 6.1 | 1,439 | 5.4 |
| Black Only | 317 | 6.2 | 318 | 6.2 | 309 | 6.0 | 318 | 6.2 | 315 | 6.1 |
| NHOPI Only | * | * | * | * * | * | * | * | * | * | * * |
| Asian Only | 75 | 3.0 | 76 | 3.0 | 76 | 3.0 | 77 | 3.1 | 74 | 2.9 |
| AIAN Only | 14 | 6.0 | 16 | 6.7 | 16 | 6.7 | 14 | 5.9 | * | * |
| 2 or More Races | 38 | 6.2 | 37 | 6.0 | 38 | 6.1 | 24 | 4.0 | 53 | 8.3 |
| East North Central |  |  |  |  |  |  |  |  |  |  |
| White Only | 1,982 | 6.1 | 2,001 | 6.2 | 2,002 | 6.2 | 1,935 | 6.0 | 2,029 | 6.3 |
| Black Only | 251 | 5.5 | 260 | 5.7 | 256 | 5.6 | 256 | 5.6 | 246 | 5.4 |
| NHOPI Only | * | * | * | * * | * | * | * | , | * | * * |
| Asian Only | 25 | 1.9 | 25 | 1.9 | 25 | 2.0 | 40 | 3.2 | 9 | 0.7 a |
| AIAN Only | 13 | 6.1 | 15 | 7.0 | 15 | 7.1 | 13 | 6.0 | 13 | 6.1 |
| 2 or More Races | 47 | 7.7 | 49 | 7.9 | 49 | 7.9 | 32 | 5.4 | 62 | 9.9 |

Table I. 1 Past Year Alcohol Use Disorder (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (2015+2016) \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent |
| West North Central |  |  |  |  |  |  |  |  |  |  |
| White Only | 875 | 5.7 | 887 | 5.8 | 890 | 5.8 | 874 | 5.7 | 877 | 5.7 |
| Black Only | 65 | 5.8 | 65 | 5.7 | 68 | 6.0 | 60 | 5.3 | 71 | 6.3 |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * * |
| Asian Only | 24 | 4.9 | 23 | 4.7 | 23 | 4.7 | 37 | 7.5 | 11 | 2.2 |
| AIAN Only | 32 | 14.2 | 22 | 9.8 a | 25 | 11.2 | * | * | , | * * |
| 2 or More Races | 16 | 5.5 | 16 | 5.3 | 15 | 5.1 | 15 | 5.2 | 18 | 5.8 |
| South Atlantic |  |  |  |  |  |  |  |  |  |  |
| White Only | 2,124 | 5.5 | 2,103 | 5.5 | 2,093 | 5.5 | 2,206 | 5.8 | 2,042 | 5.3 |
| Black Only | 561 | 4.9 | 569 | 4.9 | 574 | 5.0 | 488 | 4.3 | 634 | 5.4 |
| NHOPI Only | 5 | 2.7 | 5 | 2.8 | 5 | 2.9 | * | * | * | * * |
| Asian Only | 55 | 2.9 | 56 | 3.0 | 54 | 2.9 | 51 | 2.7 | 58 | 3.0 |
| AIAN Only | 13 | 3.7 | 15 | 4.3 | 11 | 3.2 | 12 | 3.6 | 13 | 3.8 |
| 2 or More Races | 48 | 5.2 | 49 | 5.4 | 51 | 5.6 | 47 | 5.3 | 48 | 5.1 |
| East South Central |  |  |  |  |  |  |  |  |  |  |
| White Only | 545 | 4.5 | 597 | 5.0 a | 596 | 4.9 a | 612 | 5.1 | 478 | 4.0 |
| Black Only | 120 | 3.8 | 116 | 3.7 | 113 | 3.6 | 97 | 3.1 | 143 | 4.6 |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * * |
| Asian Only | * | * | * | * * | * | * * | * | * | * | * |
| AIAN Only | * | * | * | * * | * | * * | * | * | * | * * |
| 2 or More Races | 4 | 2.0 | 4 | 2.0 | 3 | 1.6 | 1 | 0.6 | * | * * |
| West South Central |  |  |  |  |  |  |  |  |  |  |
| White Only | 1,307 | 5.3 | 1,316 | 5.3 | 1,340 | 5.4 | 1,429 | 5.8 | 1,184 | 4.8 |
| Black Only | 246 | 5.5 | 253 | 5.6 | 268 | 5.9 | 260 | 5.8 | 233 | 5.1 |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * * |
| Asian Only | 40 | 3.2 | 42 | 3.3 a | 34 | 2.7 | 34 | 2.7 | 45 | 3.6 |
| AIAN Only | 40 | 7.2 | 38 | 6.8 | 54 | 9.7 | 40 | 7.2 | 41 | 7.3 |
| 2 or More Races | 29 | 5.0 | 30 | 5.1 | 33 | 5.7 | 18 | 3.0 | 41 | 6.9 |

Table I. 1 Past Year Alcohol Use Disorder (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (2015+2016) \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample <br> Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\quad$ Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in $1,000 s$ ) | Percent |
| Mountain |  |  |  |  |  |  |  |  |  |  |
| White Only | 950 | 5.6 | 957 | 5.7 | 961 | 5.7 | 959 | 5.7 | 941 | 5.5 |
| Black Only | 37 | 4.9 | 39 | 5.2 | 40 | 5.3 | 32 | 4.3 | 43 | 5.6 |
| NHOPI Only | 6 | 4.1 | 6 | 4.1 | 5 | 3.7 | * | * | * | * * |
| Asian Only | 16 | 2.5 | 15 | 2.4 | 15 | 2.3 | 17 | 2.7 | 15 | 2.3 |
| AIAN Only | 66 | 9.7 | 71 | 10.5 | 67 | 9.9 | 59 | 8.8 | 73 | 10.7 |
| 2 or More Races | 33 | 7.2 | 34 | 7.6 | 32 | 7.2 | 34 | 7.7 | 31 | 6.7 |
| Pacific |  |  |  |  |  |  |  |  |  |  |
| White Only | 2,298 | 7.1 | 2,299 | 7.1 | 2,300 | 7.1 | 2,458 | 7.6 | 2,138 | 6.6 |
| Black Only | 162 | 6.8 | 161 | 6.7 | 165 | 6.9 | 153 | 6.4 | 172 | 7.1 |
| NHOPI Only | 22 | 3.6 | 22 | 3.6 | 21 | 3.5 | 22 | 4.8 | * | * * |
| Asian Only | 203 | 3.4 | 201 | 3.4 | 202 | 3.4 | 199 | 3.3 | 208 | 3.5 |
| AIAN Only | 69 | 8.9 | 71 | 9.2 | 70 | 9.0 | 83 | 10.8 | 55 | 7.1 |
| 2 or More Races | 114 | 6.9 | 115 | 7.0 | 116 | 7.1 | 118 | 7.3 | 109 | 6.6 |
| County Type by Age Group |  |  |  |  |  |  |  |  |  |  |
| Large Metro |  |  |  |  |  |  |  |  |  |  |
| 12+ | 8,992 | 6.0 | 9,122 | 6.0 | 9,239 | 6.0 | 9,283 | 6.2 | 8,701 | 5.8 |
| 12-17 | 296 | 2.1 | 303 | 2.1 | 299 | 2.1 | 339 | 2.4 | 253 | 1.8 a |
| 18+ | 8,696 | 6.4 | 8,819 | 6.4 | 8,940 | 6.4 | 8,944 | 6.6 | 8,448 | 6.2 |
| 18-25 | 2,112 | 11.0 | 2,147 | 11.0 | 2,161 | 11.0 | 2,120 | 10.9 | 2,105 | 11.0 |
| 26-49 | 4,525 | 7.7 | 4,589 | 7.7 | 4,672 | 7.8 | 4,727 | 8.1 | 4,323 | 7.3 |
| 50+ | 2,059 | 3.6 | 2,083 | 3.6 | 2,107 | 3.5 | 2,097 | 3.7 | 2,020 | 3.5 |
| Small Metro, pop 250,000-1,000,000 |  |  |  |  |  |  |  |  |  |  |
| 12+ | 3,121 | 5.6 | 3,182 | 5.7 a | 3,114 | 5.7 | 3,174 | 5.7 | 3,067 | 5.6 |
| 12-17 | 126 | 2.4 | 127 | 2.4 | 128 | 2.5 | 133 | 2.5 | 119 | 2.3 |
| 18+ | 2,994 | 6.0 | 3,055 | 6.0 a | 2,986 | 6.0 | 3,041 | 6.0 | 2,948 | 5.9 |
| 18-25 | 774 | 10.4 | 786 | 10.4 | 760 | 10.2 | 796 | 10.5 | 753 | 10.2 |
| 26-49 | 1,435 | 7.3 | 1,455 | 7.3 | 1,436 | 7.4 | 1,435 | 7.2 | 1,434 | 7.4 |
| 50+ | 785 | 3.4 | 813 | 3.5 a | 790 | 3.4 | 810 | 3.5 | 760 | 3.3 |

(continued)

Table I. 1 Past Year Alcohol Use Disorder (continued)

| Domains | FE Sample (2015+2016) |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent |
| Small Metro, $<250,000$ population |  |  |  |  |  |  |  |  |  |  |
| $12+$ | 1,494 | 5.8 | 1,520 | 6.0 a | 1,523 | 6.0 a | 1,468 | 5.7 | 1,521 | 6.0 |
| 12-17 | 52 | 2.4 | 54 | 2.5 a | 55 | 2.5 a | 50 | 2.3 | 53 | 2.5 |
| 18+ | 1,443 | 6.2 | 1,466 | 6.3 a | 1,468 | 6.4 a | 1,418 | 6.1 | 1,468 | 6.3 |
| 18-25 | 443 | 12.4 | 455 | 12.8 a | 458 | 12.9 a | 454 | 13.0 | 433 | 11.7 |
| 26-49 | 638 | 7.5 | 641 | 7.6 | 634 | 7.6 | 633 | 7.3 | 643 | 7.7 |
| 50+ | 362 | 3.2 | 371 | 3.3 | 376 | 3.4 | 331 | 2.9 | 392 | 3.5 |
| Nonmetro, 20,000 or more urban pop |  |  |  |  |  |  |  |  |  |  |
| $12+$ | 817 | 5.4 | 826 | 5.5 | 815 | 5.5 | 848 | 5.6 | 786 | 5.1 |
| 12-17 | 34 | 2.4 | 34 | 2.5 | 36 | 2.6 | 42 | 3.0 | 26 | 1.9 |
| 18+ | 782 | 5.7 | 791 | 5.8 | 779 | 5.8 | 805 | 5.9 | 760 | 5.5 |
| 18-25 | 197 | 9.9 | 200 | 10.2 | 201 | 10.3 | 226 | 11.0 | 168 | 8.7 |
| 26-49 | 307 | 6.0 | 300 | 6.1 | 300 | 6.1 | 318 | 6.3 | 295 | 5.8 |
| 50+ | 279 | 4.1 | 292 | 4.4 | 278 | 4.2 | 260 | 3.9 | 297 | 4.3 |
| Nonmetro, 2,500-19,999 urban pop |  |  |  |  |  |  |  |  |  |  |
| 12+ | 831 | 4.6 | 762 | 4.6 | 739 | 4.6 | 829 | 4.9 | 833 | 4.3 |
| 12-17 | 36 | 2.3 | 31 | 2.2 | 31 | 2.3 | 45 | 3.1 | 28 | 1.7 a |
| 18+ | 794 | 4.8 | 731 | 4.8 | 708 | 4.8 | 784 | 5.0 | 805 | 4.6 |
| 18-25 | 194 | 9.7 | 176 | 9.4 | 164 | 9.3 | 197 | 10.1 | 192 | 9.3 |
| 26-49 | 378 | 6.7 | 339 | 6.7 | 329 | 6.8 | 349 | 6.8 | 407 | 6.7 |
| 50+ | 222 | 2.5 | 216 | 2.6 | 215 | 2.7 | 238 | 2.8 | 206 | 2.2 |
| Nonmetro, $<2,500$ urban pop |  |  |  |  |  |  |  |  |  |  |
| $12+$ | 142 | 3.4 | 123 | 3.6 | 118 | 3.5 | 134 | 2.9 | 149 | 4.0 |
| 12-17 | 11 | 3.1 | 8 | 3.0 | 7 | 2.6 | 13 | 3.5 | 9 | 2.7 |
| 18+ | 131 | 3.5 | 115 | 3.6 | 111 | 3.6 | 121 | 2.9 | 141 | 4.2 |
| 18-25 | 31 | 7.7 | 28 | 8.9 | 28 | 9.0 | 29 | 6.5 | 33 | 9.1 |
| 26-49 | 64 | 4.9 | 62 | 5.9 a | 58 | 5.7 | 56 | 3.9 | 71 | 6.1 |
| 50+ | 36 | 1.7 | 25 | 1.4 | 25 | 1.4 | 35 | 1.5 | 37 | 2.0 |
| County Type by Hispanicity |  |  |  |  |  |  |  |  |  |  |
| Large Metro |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 1,734 | 5.8 | 1,773 | 5.8 a | 1,786 | 5.8 | 1,979 | 6.5 | 1,489 | 5.0 a |
| Not Hispanic/Latino | 7,258 | 6.1 | 7,349 | 6.0 | 7,453 | 6.0 | 7,304 | 6.1 | 7,212 | 6.0 |
| Small Metro, pop 250,000-1,000,000 |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 501 | 5.7 | 500 | 5.7 | 487 | 5.7 | 499 | 5.9 | 502 | 5.5 |
| Not Hispanic/Latino | 2,620 | 5.6 | 2,682 | 5.7 a | 2,626 | 5.6 | 2,675 | 5.6 | 2,565 | 5.6 |

Table I. 1 Past Year Alcohol Use Disorder (continued)

| Domains | FE Sample (2015+2016) |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in 1,000s) | Percent |
| Small Metro, <250,000 population |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 167 | 6.1 | 165 | 6.1 | 159 | 5.9 | 157 | 6.0 | 176 | 6.1 |
| Not Hispanic/Latino | 1,328 | 5.8 | 1,355 | 6.0 a | 1,364 | 6.1 a | 1,311 | 5.7 | 1,345 | 5.9 |
| Nonmetro, 20,000 or more urban pop |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 85 | 7.0 | 85 | 7.2 | 83 | 7.1 | 116 | 9.0 | 53 | 4.7 |
| Not Hispanic/Latino | 732 | 5.2 | 741 | 5.4 a | 732 | 5.3 | 731 | 5.3 | 733 | 5.2 |
| Nonmetro, 2,500-19,999 urban pop |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 34 | 3.5 | 31 | 3.5 | 31 | 3.5 | 32 | 3.9 | 37 | 3.2 |
| Not Hispanic/Latino | 797 | 4.6 | 731 | 4.6 | 708 | 4.7 | 797 | 4.9 | 796 | 4.4 |
| Nonmetro, <2,500 urban pop |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | * | * | * | * * | * | * * | * | * | * | * * |
| Not Hispanic/Latino | 126 | 3.2 | 110 | 3.3 | 105 | 3.2 | 128 | 2.9 | 125 | 3.5 |
| County Type by Race |  |  |  |  |  |  |  |  |  |  |
| Large Metro |  |  |  |  |  |  |  |  |  |  |
| White Only | 7,038 | 6.4 | 7,128 | 6.4 | 7,204 | 6.4 | 7,368 | 6.7 | 6,708 | 6.1 |
| Black Only | 1,243 | 5.5 | 1,268 | 5.6 | 1,287 | 5.6 | 1,209 | 5.4 | 1,277 | 5.6 |
| NHOPI Only | 31 | 3.7 | 29 | 3.4 | 26 | 3.1 | 34 | 4.9 | 29 | 2.9 |
| Asian Only | 379 | 3.2 | 381 | 3.2 | 378 | 3.2 | 395 | 3.4 | 363 | 3.1 |
| AIAN Only | 108 | 7.1 | 111 | 7.3 | 135 | 8.1 | 117 | 7.4 | 99 | 6.8 |
| 2 or More Races | 192 | 6.6 | 205 | 6.8 | 209 | 6.7 | 160 | 5.6 | 225 | 7.5 |
| Small Metro, pop 250,000-1,000,000 |  |  |  |  |  |  |  |  |  |  |
| White Only | 2,625 | 5.8 | 2,673 | 5.8 | 2,611 | 5.8 | 2,695 | 5.9 | 2,556 | 5.7 |
| Black Only | 278 | 4.7 | 285 | 4.8 | 281 | 4.8 | 250 | 4.2 | 306 | 5.3 |
| NHOPI Only | * | * | 20 | 6.5 * | 18 | 6.0 * | 19 | 7.1 | * | * * |
| Asian Only | 62 | 2.9 | 63 | 3.0 | 60 | 2.9 | 65 | 3.0 | 58 | 2.9 |
| AIAN Only | 38 | 6.1 | 41 | 6.2 | 47 | 6.9 | 39 | 6.1 | 37 | 6.0 |
| 2 or More Races | 97 | 7.2 | 100 | 7.3 | 96 | 7.3 | 107 | 8.0 | 88 | 6.4 |
| Small Metro, $<250,000$ population |  |  |  |  |  |  |  |  |  |  |
| White Only | 1,288 | 5.9 | 1,310 | 6.1 a | 1,315 | 6.1 a | 1,283 | 5.9 | 1,293 | 5.9 |
| Black Only | 120 | 5.0 | 118 | 5.0 | 111 | 4.9 | 111 | 4.3 | 129 | 5.7 |
| NHOPI Only | 2 | 3.0 | * | * * | * | * * | * | * | * | * * |
| Asian Only | 14 | 2.2 | 15 | 2.7 a | 14 | 2.6 | 14 | 2.2 | 13 | 2.3 |
| AIAN Only | 34 | 12.0 | 39 | 11.4 | 44 | 11.1 | 27 | 9.7 | * | * * |
| 2 or More Races | 36 | 7.6 | 35 | 8.0 | 36 | 8.0 | 29 | 6.5 | 44 | 8.6 |

Table I. 1 Past Year Alcohol Use Disorder (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (\mathbf{2 0 1 5 + 2 0 1 6 )} \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample <br> Excluding GQ, AIAN <br> Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | $\qquad$ | Percent | Total (Numbers in $1,000 s$ ) | Percent | Total (Numbers in 1,000s) | Percent | Total <br> (Numbers <br> in 1,000s) | Percent |
| Nonmetro, 20,000 or more urban pop |  |  |  |  |  |  |  |  |  |  |
| White Only | 688 | 5.3 | 693 | 5.4 | 691 | 5.4 | 716 | 5.5 | 660 | 5.0 |
| Black Only | 88 | 6.7 | 87 | 6.5 | 89 | 6.6 | 79 | 6.5 | 97 | 6.8 |
| NHOPI Only | 2 | 3.9 | 2 | 4.1 | 2 | 3.4 | * | * | * | * * |
| Asian Only | 3 | 1.2 | 1 | 0.6 | 1 | 0.6 | 2 | 0.8 | * | * * |
| AIAN Only | 21 | 7.7 | 26 | 8.8 | 17 | 6.7 | 27 | 11.3 | 16 | 5.0 a |
| 2 or More Races | 15 | 4.2 | 16 | 5.3 a | 14 | 4.9 | 20 | 4.6 | 9 | 3.5 |
| Nonmetro, 2,500-19,999 urban pop |  |  |  |  |  |  |  |  |  |  |
| White Only | 688 | 4.4 | 635 | 4.4 | 626 | 4.5 | 710 | 4.8 | 667 | 4.0 |
| Black Only | 76 | 4.5 | 71 | 4.6 | 70 | 4.7 | 59 | 3.9 | 94 | 5.0 |
| NHOPI Only | * | * | * | * | * | * * | * | * | * | * |
| Asian Only | * | * | * | * * | * | * * | * | * | * | * |
| AIAN Only | 36 | 10.0 | 27 | 9.3 | * | * * | * | * | 30 | 7.8 |
| 2 or More Races | 27 | 7.9 | 27 | 8.7 | * | * * | 14 | 4.8 | * | * |
| Nonmetro, $<2,500$ urban pop |  |  |  |  |  |  |  |  |  |  |
| White Only | 114 | 3.1 | 103 | 3.4 | 105 | 3.4 | 112 | 2.8 | 115 | 3.6 |
| Black Only | 8 | 2.8 | * | * * | * | * * | * | * | * | * |
| NHOPI Only | * | , | * | * * | * | * * | * | * | * | * * |
| Asian Only | * | * | * | * * | * | * * | * | * | * | * * |
| AIAN Only | 16 | 14.2 | 10 | 12.7 | * | * * | 15 | 15.8 | * | * * |
| 2 or More Races | 4 | 3.3 | * | * * | * | * * | * | * | * | * * |
| College Enrollment by Gender |  |  |  |  |  |  |  |  |  |  |
| Persons Aged 18 to $22^{1}$ |  |  |  |  |  |  |  |  |  |  |
| Male | 1,159 | 10.7 | 1,163 | 10.7 | 1,151 | 10.8 | 1,193 | 11.0 | 1,125 | 10.4 |
| Female | 1,017 | 9.8 | 1,032 | 10.0 a | 994 | 9.8 | 1,034 | 9.9 | 999 | 9.8 |
| Full-Time College Students |  |  |  |  |  |  |  |  |  |  |
| Male | 419 | 11.4 | 429 | 11.6 | 411 | 11.8 | 477 | 12.7 | 362 | 10.1 |
| Female | 454 | 10.6 | 467 | 10.9 a | 418 | 10.4 | 407 | 9.8 | 501 | 11.5 |
| Other Persons Aged 18 to $22^{2}$ |  |  |  |  |  |  |  |  |  |  |
| Male | 740 | 10.3 | 734 | 10.3 | 740 | 10.2 | 716 | 10.1 | 763 | 10.5 |
| Female | 562 | 9.3 | 565 | 9.4 | 576 | 9.4 | 627 | 10.0 | 498 | 8.5 |
| Age Group by Gender |  |  |  |  |  |  |  |  |  |  |
| 12+ |  |  |  |  |  |  |  |  |  |  |
| Male | 9,751 | 7.5 | 9,841 | 7.6 a | 9,859 | 7.6 | 10,104 | 7.8 | 9,398 | 7.2 |
| Female | 5,645 | 4.1 | 5,694 | 4.1 a | 5,690 | 4.1 | 5,631 | 4.1 | 5,659 | 4.1 |

Table I. 1 Past Year Alcohol Use Disorder (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (2015+2016) \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0}$ s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent |
| 12-17 |  |  |  |  |  |  |  |  |  |  |
| Male | 244 | 1.9 | 247 | 1.9 | 246 | 1.9 | 298 | 2.3 | 191 | 1.5 |
| Female | 311 | 2.5 | 311 | 2.5 | 310 | 2.5 | 325 | 2.7 | 297 | 2.4 |
| 18+ |  |  |  |  |  |  |  |  |  |  |
| Male | 9,507 | 8.1 | 9,595 | 8.2 a | 9,612 | 8.2 | 9,807 | 8.4 | 9,207 | 7.8 |
| Female | 5,334 | 4.2 | 5,382 | 4.3 a | 5,380 | 4.3 | 5,306 | 4.2 | 5,362 | 4.2 |
| 18-25 |  |  |  |  |  |  |  |  |  |  |
| Male | 2,090 | 12.0 | 2,102 | 12.0 | 2,105 | 12.1 | 2,158 | 12.3 | 2,021 | 11.6 |
| Female | 1,663 | 9.6 | 1,690 | 9.8 a | 1,667 | 9.6 | 1,663 | 9.6 | 1,663 | 9.7 |
| 26-49 |  |  |  |  |  |  |  |  |  |  |
| Male | 4,835 | 9.9 | 4,855 | 10.0 | 4,875 | 10.0 | 5,041 | 10.4 | 4,629 | 9.5 |
| Female | 2,511 | 5.0 | 2,530 | 5.0 | 2,554 | 5.1 a | 2,478 | 4.9 | 2,544 | 5.1 |
| 50+ |  |  |  |  |  |  |  |  |  |  |
| Male | 2,582 | 5.0 | 2,638 | 5.1 | 2,633 | 5.1 | 2,607 | 5.1 | 2,557 | 4.9 |
| Female | 1,160 | 2.0 | 1,162 | 2.0 | 1,158 | 2.0 | 1,165 | 2.0 | 1,156 | 2.0 |
| Age Group by Race |  |  |  |  |  |  |  |  |  |  |
| White Only | 12,441 | 5.9 | 12,543 | 6.0 a | 12,552 | 6.0 | 12,883 | 6.2 | 11,999 | 5.7 |
| Black Only | 1,814 | 5.3 | 1,837 | 5.4 | 1,845 | 5.4 | 1,713 | 5.0 | 1,914 | 5.6 |
| NHOPI Only | 58 | 4.4 | 55 | 4.2 | 50 | 3.8 | 62 | 5.7 | 53 | 3.5 |
| Asian Only | 459 | 3.1 | 462 | 3.1 | 454 | 3.1 | 480 | 3.2 | 438 | 3.0 |
| AIAN Only | 254 | 8.0 | 253 | 8.0 | 262 | 8.3 | 268 | 8.5 | 241 | 7.5 |
| 2 or More Races | 371 | 6.7 | 385 | 6.9 | 385 | 6.9 | 330 | 6.1 | 412 | 7.3 |
| 12-17 |  |  |  |  |  |  |  |  |  |  |
| White Only | 454 | 2.5 | 455 | 2.5 | 455 | 2.5 | 500 | 2.7 | 409 | 2.2 |
| Black Only | 46 | 1.2 | 48 | 1.3 a | 48 | 1.3 | 55 | 1.5 | 38 | 1.0 |
| NHOPI Only | 6 | 3.2 | 5 | 3.1 | 5 | 3.2 | * | * | 2 | 1.0 |
| Asian Only | 14 | 1.1 | 14 | 1.0 | 13 | 1.0 | 16 | 1.2 | 12 | 0.9 |
| AIAN Only | 9 | 2.3 | 11 | 2.7 | 10 | 2.4 | 11 | 2.7 | 8 | 2.0 |
| 2 or More Races | 26 | 2.8 | 26 | 2.8 | 25 | 2.7 | 32 | 3.5 | 20 | 2.1 |

Table I. 1 Past Year Alcohol Use Disorder (continued)

| Domains | FE Sample$(2015+2016)$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total <br> (Numbers <br> in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent |  |
| 18+ |  |  |  |  |  |  |  |  |  |  |  |
| White Only | 11,987 | 6.3 | 12,088 | 6.3 a | 12,097 | 6.3 | 12,383 | 6.5 | 11,590 | 6.0 |  |
| Black Only | 1,767 | 5.8 | 1,789 | 5.9 | 1,797 | 5.9 | 1,658 | 5.5 | 1,877 | 6.1 |  |
| NHOPI Only | 52 | 4.6 | 50 | 4.3 | 45 | 3.9 | 52 | 5.8 | 51 | 3.8 |  |
| Asian Only | 445 | 3.3 | 449 | 3.3 | 441 | 3.3 | 464 | 3.4 | 425 | 3.2 |  |
| AIAN Only | 245 | 8.8 | 242 | 8.7 | 253 | 9.1 | 257 | 9.3 | 233 | 8.3 |  |
| 2 or More Races | 345 | 7.5 | 359 | 7.8 | 360 | 7.8 | 299 | 6.6 | 392 | 8.3 |  |
| 18-25 |  |  |  |  |  |  |  |  |  |  |  |
| White Only | 3,018 | 11.8 | 3,048 | 11.9 a | 3,027 | 11.8 | 3,029 | 11.8 | 3,008 | 11.8 |  |
| Black Only | 399 | 7.5 | 400 | 7.5 | 401 | 7.5 | 427 | 7.9 | 371 | 7.0 |  |
| NHOPI Only | 16 | 6.7 | 17 | 7.0 | 16 | 6.8 | 20 | 8.0 | 12 | 5.2 |  |
| Asian Only | 136 | 6.4 | 139 | 6.5 | 135 | 6.4 | 145 | 7.0 | 127 | 5.8 |  |
| AIAN Only | 69 | 13.2 | 72 | 13.5 | 76 | 13.9 | 76 | 14.6 | 63 | 11.8 |  |
| 2 or More Races | 114 | 11.8 | 116 | 12.1 | 117 | 12.1 | 125 | 12.4 | 103 | 11.1 |  |
| 26-49 |  |  |  |  |  |  |  |  |  |  |  |
| White Only | 5,820 | 7.8 | 5,858 | 7.8 | 5,900 | 7.9 a | 5,954 | 7.9 | 5,686 | 7.6 |  |
| Black Only | 908 | 6.9 | 911 | 6.9 | 905 | 6.8 | 936 | 7.1 | 881 | 6.6 |  |
| NHOPI Only | 35 | 6.8 | 32 | 6.1 | 28 | 5.6 | 30 | 7.1 | * | * | * |
| Asian Only | 276 | 4.0 | 274 | 4.0 | 272 | 4.0 | 296 | 4.3 | 256 | 3.7 |  |
| AIAN Only | 130 | 9.7 | 133 | 9.8 | 146 | 10.7 | 158 | 11.7 | 101 | 7.6 | a |
| 2 or More Races | 177 | 9.3 | 178 | 9.2 | 178 | 9.3 | 143 | 7.8 | 210 | 10.6 |  |
| 50+ |  |  |  |  |  |  |  |  |  |  |  |
| White Only | 3,149 | 3.5 | 3,182 | 3.5 | 3,170 | 3.5 | 3,400 | 3.8 | 2,897 | 3.2 |  |
| Black Only | 460 | 3.9 | 477 | 4.0 | 491 | 4.1 | 295 | 2.5 | 625 | 5.2 | a |
| NHOPI Only | * | * | * | * | * | * | * | * | * | * * | * |
| Asian Only | 32 | 0.7 | 35 | 0.8 | 34 | 0.7 | 22 | 0.5 | 42 | 1.0 |  |
| AIAN Only | 46 | 5.0 | 38 | 4.3 | 31 | 3.6 | 22 | 2.5 | 69 | 7.3 |  |
| 2 or More Races | 55 | 3.1 | 66 | 3.8 | 64 | 3.7 | 31 | 1.8 | 80 | 4.4 |  |
| Age Group by Hispanicity |  |  |  |  |  |  |  |  |  |  |  |
| 12+ |  |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 2,536 | 5.8 | 2,567 | 5.8 | 2,560 | 5.8 | 2,790 | 6.4 | 2,282 | 5.1 | a |
| Not Hispanic/Latino | 12,861 | 5.7 | 12,968 | 5.8 a | 12,989 | 5.8 a | 12,946 | 5.8 | 12,775 | 5.7 |  |
| 12-17 |  |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 140 | 2.4 | 137 | 2.4 | 135 | 2.3 | 143 | 2.5 | 137 | 2.3 |  |
| Not Hispanic/Latino | 415 | 2.2 | 422 | 2.2 | 421 | 2.2 | 479 | 2.5 | 351 | 1.8 | a |

Table I. 1 Past Year Alcohol Use Disorder (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (2015+2016) \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in 1,000s) | Percent |
| $18+$Hispanic/LatinoNot Hispanic/Latino$18-25$Hispanic/LatinoNot Hispanic/Latino$26-49$Hispanic/LatinoNot Hispanic/Latino$50+$Hispanic/LatinoNot Hispanic/LatinoPregnancy by Age GroupFemale Aged 15-44$15-17$$18-25$$26-44$Pregnant Female Aged 15-44$15-17$$18-25$$26-44$Not Pregnant Female Aged $15-44$$15-17$$18-25$$26-44$Pregnancy by RaceFemale Aged 15-44White OnlyBlack OnlyNHOPI OnlyAsian OnlyAIAN Only2 or More Races |  |  |  |  |  |  |  |  |  |  |
|  | 2,395 | 6.3 | 2,430 | 6.4 | 2,424 | 6.4 | 2,646 | 7.0 | 2,144 | 5.6 a |
|  | 12,445 | 6.1 | 12,547 | 6.1 a | 12,568 | 6.1 a | 12,466 | 6.1 | 12,424 | 6.0 |
|  |  |  |  |  |  |  |  |  |  |  |
|  | 768 | 10.3 | 781 | 10.5 a | 771 | 10.3 | 824 | 11.1 | 712 | 9.5 |
|  | 2,984 | 10.9 | 3,011 | 11.0 a | 3,000 | 11.0 | 2,997 | 10.9 | 2,972 | 11.0 |
|  |  |  |  |  |  |  |  |  |  |  |
|  | 1,295 | 6.7 | 1,308 | 6.7 | 1,321 | 6.8 | 1,373 | 7.1 | 1,217 | 6.2 |
|  | 6,051 | 7.6 | 6,078 | 7.7 | 6,108 | 7.7 | 6,146 | 7.8 | 5,955 | 7.5 |
|  |  |  |  |  |  |  |  |  |  |  |
|  | 332 | 3.0 | 341 | 3.0 | 332 | 3.0 | 449 | 4.1 | 215 | 1.9 a |
|  | 3,410 | 3.5 | 3,458 | 3.5 | 3,460 | 3.5 | 3,323 | 3.4 | 3,497 | 3.5 |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  | 271 | 4.3 | 271 | 4.3 | 270 | 4.3 | 291 | 4.7 | 251 | 4.0 |
|  | 1,655 | 9.6 | 1,683 | 9.8 a | 1,659 | 9.6 | 1,654 | 9.5 | 1,656 | 9.7 |
|  | 2,047 | 5.2 | 2,063 | 5.2 | 2,088 | 5.3 a | 2,084 | 5.3 | 2,009 | 5.0 |
|  |  |  |  |  |  |  |  |  |  |  |
|  | * | * | * | * * | * | * * | * | * | * | * |
|  | 56 | 7.5 | 57 | 7.6 | 57 | 7.6 | 78 | 9.3 | 34 | 5.1 |
|  | 59 | 3.9 | 62 | 4.1 | 65 | 4.3 | 64 | 4.5 | 54 | 3.5 |
|  |  |  |  |  |  |  |  |  |  |  |
|  | 269 | 4.3 | 269 | 4.3 | 268 | 4.3 | 290 | 4.7 | 249 | 3.9 |
|  | 1,600 | 9.7 | 1,626 | 9.9 a | 1,602 | 9.7 | 1,577 | 9.6 | 1,623 | 9.9 |
|  | 1,988 | 5.2 | 2,001 | 5.2 | 2,024 | 5.3 a | 2,021 | 5.3 | 1,955 | 5.1 |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  | 3,139 | 6.7 | 3,180 | 6.8 a | 3,171 | 6.8 | 3,095 | 6.7 | 3,183 | 6.8 |
|  | 468 | 4.9 | 465 | 4.9 | 466 | 4.9 | 487 | 5.2 | 449 | 4.7 |
|  | 15 | 3.8 | 16 | 4.0 | 14 | 3.8 | 26 | 7.2 | 4 | 0.9 a |
|  | 157 | 3.6 | 157 | 3.6 | 152 | 3.5 | 194 | 4.5 | 121 | 2.7 |
|  | 74 | 8.6 | 75 | 8.5 | 87 | 9.5 | 96 | 11.2 | 51 | 5.9 a |
|  | 120 | 7.8 | 125 | 8.1 | 127 | 8.2 | 132 | 8.7 | 107 | 7.0 |

(continued)

Table I. 1 Past Year Alcohol Use Disorder (continued)

| Domains | FE Sample (2015+2016) |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent |
| Pregnant Female Aged 15-44 |  |  |  |  |  |  |  |  |  |  |
| White Only | 97 | 5.8 | 100 | 5.9 | 102 | 6.0 | 111 | 6.5 | 82 | 5.0 |
| Black Only | 14 | 3.9 | 15 | 4.0 | 16 | 4.2 | 22 | 5.9 | * | * * |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * * |
| Asian Only | * | * | * | * * | * | * * | * | * | * | * * |
| AIAN Only | * | * | * | * * | * | * * | * | * | * | * * |
| 2 or More Races | * | * | * | * * | * | * * | * | * | * | * * |
| Not Pregnant Female Aged 15-44 |  |  |  |  |  |  |  |  |  |  |
| White Only | 3,043 | 6.8 | 3,081 | 6.9 a | 3,069 | 6.8 | 2,985 | 6.7 | 3,101 | 6.9 |
| Black Only | 454 | 5.0 | 450 | 4.9 | 451 | 5.0 | 464 | 5.2 | 443 | 4.8 |
| NHOPI Only | 15 | 3.8 | 15 | 4.1 | 14 | 3.8 | 26 | 7.3 | 4 | 1.0 a |
| Asian Only | 154 | 3.6 | 154 | 3.6 | 149 | 3.5 | 187 | 4.5 | 121 | 2.8 |
| AIAN Only | 72 | 8.7 | 73 | 8.6 | 85 | 9.6 | 95 | 11.5 | 50 | 5.9 a |
| 2 or More Races | 119 | 8.1 | 124 | 8.3 | 126 | 8.4 | 130 | 8.9 | 107 | 7.3 |
| Pregnancy by Hispanicity |  |  |  |  |  |  |  |  |  |  |
| Female Aged 15-443 |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 645 | 5.0 | 655 | 5.1 | 650 | 5.1 | 672 | 5.3 | 619 | 4.8 |
| Not Hispanic/Latino | 3,328 | 6.6 | 3,362 | 6.7 a | 3,368 | 6.7 | 3,358 | 6.7 | 3,298 | 6.5 |
| Pregnant Female Aged 15-44 |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 20 | 4.1 | 23 | 4.7 | 24 | 4.8 | 28 | 5.9 | 12 | 2.5 |
| Not Hispanic/Latino | 97 | 5.4 | 98 | 5.4 | 100 | 5.5 | 115 | 6.3 | 78 | 4.4 |
| Not Pregnant Female Aged 15-44 |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 626 | 5.1 | 632 | 5.1 | 626 | 5.1 | 644 | 5.2 | 607 | 4.9 |
| Not Hispanic/Latino | 3,231 | 6.7 | 3,264 | 6.7 a | 3,268 | 6.7 | 3,243 | 6.7 | 3,219 | 6.6 |

* = low precision; -- = not available; AIAN = American Indian or Alaska Native; FE = field enumeration; GQ = group quarters; NHOPI = Native Hawaiian or Other

Pacific Islander; pop = population.
${ }^{1}$ Excludes those with unknown enrollment status.
${ }^{2}$ Other Persons include respondents aged 18 to 22 not enrolled in school, enrolled in college part time, enrolled in other grades either full or part time, or enrolled with no other information available.
${ }^{3}$ Excludes those with unknown pregnancy status.
${ }^{a}$ The difference between this estimate and the person sample estimate is statistically significant at the .05 level.

## Appendix J: 2015-2016 NSDUH - Weighted Annual Averages Past Year Illicit Drug Use Disorder - UDPYILL

Table J. 1 Past Year Illicit Drug Use Disorder

| Domains | $\begin{gathered} \text { FE Sample } \\ (2015+2016) \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000 s) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent |
| Age Group |  |  |  |  |  |  |  |  |  |  |
| 12+ | 7,559 | 2.8 | 7,565 | 2.8 | 7,507 | 2.8 | 7,737 | 2.9 | 7,381 | 2.7 |
| 12-17 | 822 | 3.3 | 830 | 3.3 | 827 | 3.3 | 855 | 3.4 | 789 | 3.2 |
| 18+ | 6,737 | 2.8 | 6,735 | 2.8 | 6,679 | 2.7 | 6,883 | 2.8 | 6,592 | 2.7 |
| 18-25 | 2,479 | 7.1 | 2,496 | 7.2 | 2,502 | 7.2 | 2,530 | 7.2 | 2,428 | 7.0 |
| 26-49 | 3,135 | 3.2 | 3,089 | 3.1 | 3,039 | 3.1 a | 3,239 | 3.3 | 3,032 | 3.1 |
| 50+ | 1,123 | 1.0 | 1,151 | 1.0 a | 1,138 | 1.0 | 1,114 | 1.0 | 1,132 | 1.0 |
| Gender |  |  |  |  |  |  |  |  |  |  |
| Male | 4,760 | 3.7 | 4,776 | 3.7 | 4,723 | 3.6 | 4,985 | 3.8 | 4,535 | 3.5 |
| Female | 2,799 | 2.0 | 2,790 | 2.0 | 2,784 | 2.0 | 2,752 | 2.0 | 2,846 | 2.1 |
| Hispanicity |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 1,210 | 2.8 | 1,208 | 2.7 | 1,182 | 2.7 | 1,291 | 3.0 | 1,130 | 2.5 |
| Not Hispanic/Latino | 6,349 | 2.8 | 6,357 | 2.8 | 6,324 | 2.8 | 6,447 | 2.9 | 6,251 | 2.8 |
| Race |  |  |  |  |  |  |  |  |  |  |
| White Only | 5,804 | 2.8 | 5,781 | 2.8 | 5,745 | 2.7 | 5,952 | 2.8 | 5,656 | 2.7 |
| Black Only | 1,178 | 3.5 | 1,198 | 3.5 | 1,185 | 3.5 | 1,201 | 3.5 | 1,156 | 3.4 |
| NHOPI Only | 36 | 2.7 | 37 | 2.8 | 36 | 2.8 | 44 | 4.0 | 27 | 1.8 |
| Asian Only | 178 | 1.2 | 182 | 1.2 | 180 | 1.2 | 181 | 1.2 | 174 | 1.2 |
| AIAN Only | 103 | 3.2 | 107 | 3.4 | 105 | 3.3 | 105 | 3.3 | 101 | 3.2 |
| 2 or More Races | 261 | 4.7 | 261 | 4.7 | 255 | 4.6 | 255 | 4.7 | 267 | 4.7 |
| Division |  |  |  |  |  |  |  |  |  |  |
| New England | 487 | 3.9 | 494 | 3.9 | 489 | 3.9 | 526 | 4.2 | 448 | 3.5 |
| Middle Atlantic | 896 | 2.5 | 904 | 2.6 | 894 | 2.5 | 848 | 2.4 | 945 | 2.7 |
| East North Central | 978 | 2.5 | 987 | 2.5 | 986 | 2.5 | 1,068 | 2.7 | 889 | 2.3 |
| West North Central | 409 | 2.3 | 411 | 2.3 | 415 | 2.4 | 408 | 2.3 | 410 | 2.3 |
| South Atlantic | 1,412 | 2.7 | 1,395 | 2.6 | 1,388 | 2.6 | 1,422 | 2.7 | 1,402 | 2.6 |
| East South Central | 451 | 2.9 | 443 | 2.8 | 436 | 2.8 | 510 | 3.3 | 392 | 2.5 |
| West South Central | 747 | 2.3 | 751 | 2.4 | 715 | 2.2 | 815 | 2.6 | 680 | 2.1 |
| Mountain | 616 | 3.2 | 615 | 3.2 | 614 | 3.1 | 603 | 3.1 | 628 | 3.2 |
| Pacific | 1,563 | 3.6 | 1,566 | 3.6 | 1,570 | 3.6 | 1,538 | 3.5 | 1,588 | 3.6 |

Table J. 1 Past Year Illicit Drug Use Disorder (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (\mathbf{2 0 1 5 + 2 0 1 6 )} \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0}$ ) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in 1,000s) | Percent |
| County Type |  |  |  |  |  |  |  |  |  |  |
| Large Metro | 4,330 | 2.9 | 4,410 | 2.9 | 4,392 | 2.9 a | 4,339 | 2.9 | 4,320 | 2.9 |
| Small Metro, pop 250,000-1,000,000 | 1,525 | 2.7 | 1,543 | 2.7 | 1,519 | 2.8 | 1,527 | 2.7 | 1,522 | 2.8 |
| Small Metro, <250,000 population | 751 | 2.9 | 748 | 3.0 | 746 | 3.0 | 816 | 3.2 | 686 | 2.7 |
| Nonmetro, 20,000 or more urban pop | 404 | 2.7 | 387 | 2.6 | 379 | 2.5 | 489 | 3.2 | 320 | 2.1 a |
| Nonmetro, 2,500-19,999 urban pop | 453 | 2.5 | 387 | 2.3 | 380 | 2.4 | 466 | 2.7 | 440 | 2.3 |
| Nonmetro, <2,500 urban pop | 97 | 2.3 | 91 | 2.6 a | 90 | 2.6 a | 101 | 2.2 | 92 | 2.5 |
| College Enrollment |  |  |  |  |  |  |  |  |  |  |
| Persons Aged 18 to $22^{1}$ | 1,608 | 7.6 | 1,612 | 7.6 | 1,605 | 7.7 | 1,621 | 7.6 | 1,594 | 7.6 |
| Full-Time College Students | 485 | 6.1 | 484 | 6.1 | 458 | 6.1 | 483 | 6.1 | 486 | 6.1 |
| Other Persons Aged 18 to $22^{2}$ | 1,123 | 8.5 | 1,128 | 8.6 | 1,146 | 8.6 | 1,138 | 8.5 | 1,109 | 8.5 |
| Pregnancy |  |  |  |  |  |  |  |  |  |  |
| Female Aged 15-44 ${ }^{3}$ | 2,160 | 3.4 | 2,152 | 3.4 | 2,156 | 3.4 | 2,154 | 3.4 | 2,165 | 3.4 |
| Pregnant Female Aged 15-44 | 68 | 3.0 | 67 | 2.9 | 68 | 2.9 | 76 | 3.3 | 60 | 2.6 |
| Not Pregnant Female Aged 15-44 | 2,092 | 3.4 | 2,085 | 3.4 | 2,088 | 3.4 | 2,078 | 3.4 | 2,106 | 3.4 |
| Division by Age Group |  |  |  |  |  |  |  |  |  |  |
| New England |  |  |  |  |  |  |  |  |  |  |
| 12+ | 487 | 3.9 | 494 | 3.9 | 489 | 3.9 | 526 | 4.2 | 448 | 3.5 |
| 12-17 | 40 | 3.7 | 40 | 3.8 | 41 | 3.8 | 43 | 4.0 | 37 | 3.5 |
| 18+ | 447 | 3.9 | 453 | 3.9 | 448 | 3.9 | 484 | 4.2 | 411 | 3.5 |
| 18-25 | 171 | 10.4 | 168 | 10.2 | 173 | 10.5 | 155 | 9.4 | 188 | 11.4 |
| 26-49 | 193 | 4.3 | 195 | 4.4 | 184 | 4.1 | 217 | 4.9 | 168 | 3.8 |
| 50+ | 83 | 1.5 | 90 | 1.7 a | 91 | 1.7 a | 112 | 2.0 | 55 | 1.0 |
| Middle Atlantic |  |  |  |  |  |  |  |  |  |  |
| 12+ | 896 | 2.5 | 904 | 2.6 | 894 | 2.5 | 848 | 2.4 | 945 | 2.7 |
| 12-17 | 64 | 2.1 | 65 | 2.1 | 65 | 2.1 | 65 | 2.1 | 63 | 2.1 |
| 18+ | 832 | 2.6 | 840 | 2.6 | 829 | 2.6 | 782 | 2.4 | 881 | 2.7 |
| 18-25 | 326 | 7.4 | 327 | 7.4 | 331 | 7.5 | 315 | 7.0 | 338 | 7.7 |
| 26-49 | 366 | 2.8 | 367 | 2.9 | 354 | 2.8 | 322 | 2.5 | 410 | 3.2 |
| 50+ | 139 | 0.9 | 145 | 1.0 a | 145 | 1.0 a | 146 | 1.0 | 133 | 0.9 |

Table J. 1 Past Year Illicit Drug Use Disorder (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (2015+2016) \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in 1,000s) | Percent |
| East North Central |  |  |  |  |  |  |  |  |  |  |
| 12+ | 978 | 2.5 | 987 | 2.5 | 986 | 2.5 | 1,068 | 2.7 | 889 | 2.3 |
| 12-17 | 127 | 3.4 | 124 | 3.4 | 124 | 3.4 | 136 | 3.7 | 118 | 3.2 |
| 18+ | 851 | 2.4 | 863 | 2.4 | 862 | 2.4 | 932 | 2.6 | 770 | 2.2 |
| 18-25 | 325 | 6.4 | 329 | 6.5 | 331 | 6.5 | 380 | 7.5 | 271 | 5.4 a |
| 26-49 | 397 | 2.8 | 399 | 2.9 | 399 | 2.9 | 400 | 2.9 | 393 | 2.8 |
| 50+ | 129 | 0.8 | 135 | 0.8 a | 132 | 0.8 | 152 | 0.9 | 106 | 0.6 |
| West North Central |  |  |  |  |  |  |  |  |  |  |
| 12+ | 409 | 2.3 | 411 | 2.3 | 415 | 2.4 | 408 | 2.3 | 410 | 2.3 |
| 12-17 | 51 | 3.1 | 53 | 3.2 | 53 | 3.2 | 55 | 3.3 | 48 | 2.9 |
| 18+ | 357 | 2.3 | 358 | 2.3 | 361 | 2.3 | 353 | 2.2 | 362 | 2.3 |
| 18-25 | 126 | 5.4 | 128 | 5.5 | 128 | 5.5 | 121 | 5.2 | 131 | 5.6 |
| 26-49 | 144 | 2.3 | 146 | 2.3 | 148 | 2.4 | 132 | 2.1 | 155 | 2.5 |
| 50+ | 88 | 1.2 | 84 | 1.1 | 86 | 1.2 | 99 | 1.4 | 77 | 1.0 |
| South Atlantic |  |  |  |  |  |  |  |  |  |  |
| 12+ | 1,412 | 2.7 | 1,395 | 2.6 | 1,388 | 2.6 | 1,422 | 2.7 | 1,402 | 2.6 |
| 12-17 | 137 | 2.9 | 144 | 3.0 a | 143 | 3.0 a | 132 | 2.8 | 142 | 3.0 |
| 18+ | 1,274 | 2.6 | 1,251 | 2.6 | 1,245 | 2.6 | 1,290 | 2.7 | 1,259 | 2.6 |
| 18-25 | 469 | 7.2 | 473 | 7.2 | 474 | 7.3 | 493 | 7.5 | 445 | 6.9 |
| 26-49 | 612 | 3.2 | 572 | 3.0 a | 569 | 3.0 a | 605 | 3.2 | 619 | 3.2 |
| $50+$ | 194 | 0.9 | 207 | 0.9 a | 202 | 0.9 | 192 | 0.9 | 196 | 0.9 |
| East South Central |  |  |  |  |  |  |  |  |  |  |
| 12+ | 451 | 2.9 | 443 | 2.8 | 436 | 2.8 | 510 | 3.3 | 392 | 2.5 |
| 12-17 | 41 | 2.8 | 41 | 2.8 | 41 | 2.8 | 47 | 3.2 | 35 | 2.4 |
| 18+ | 410 | 2.9 | 402 | 2.8 | 395 | 2.8 | 463 | 3.3 | 357 | 2.5 |
| 18-25 | 146 | 7.2 | 148 | 7.3 | 146 | 7.2 | 147 | 7.2 | 145 | 7.2 |
| 26-49 | 231 | 4.1 | 217 | 3.9 | 212 | 3.8 | 268 | 4.8 | 194 | 3.4 |
| 50+ | 33 | 0.5 | 37 | 0.6 | 37 | 0.6 | 47 | 0.7 | 18 | 0.3 |
| West South Central |  |  |  |  |  |  |  |  |  |  |
| 12+ | 747 | 2.3 | 751 | 2.4 | 715 | 2.2 | 815 | 2.6 | 680 | 2.1 |
| 12-17 | 103 | 3.1 | 105 | 3.2 | 104 | 3.1 | 124 | 3.8 | 82 | 2.5 |
| 18+ | 644 | 2.3 | 647 | 2.3 | 611 | 2.1 | 691 | 2.4 | 598 | 2.1 |
| 18-25 | 265 | 6.1 | 270 | 6.2 | 259 | 6.0 | 267 | 6.2 | 262 | 6.1 |
| 26-49 | 303 | 2.5 | 296 | 2.4 | 279 | 2.3 | 345 | 2.8 | 261 | 2.1 |
| 50+ | 77 | 0.6 | 81 | 0.7 | 73 | 0.6 | 79 | 0.7 | 74 | 0.6 |

Table J. 1 Past Year Illicit Drug Use Disorder (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (2015+2016) \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total <br> (Numbers <br> in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total <br> (Numbers <br> in 1,000s) | Percent | Total <br> (Numbers <br> in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent |
| Mountain |  |  |  |  |  |  |  |  |  |  |
| $12+$ | 616 | 3.2 | 615 | 3.2 | 614 | 3.1 | 603 | 3.1 | 628 | 3.2 |
| 12-17 | 89 | 4.6 | 91 | 4.7 | 88 | 4.6 | 86 | 4.5 | 92 | 4.8 |
| 18+ | 527 | 3.0 | 524 | 3.0 | 526 | 3.0 | 517 | 3.0 | 536 | 3.0 |
| 18-25 | 202 | 7.8 | 201 | 7.8 | 203 | 7.8 | 186 | 7.2 | 219 | 8.4 |
| 26-49 | 259 | 3.6 | 257 | 3.5 | 256 | 3.5 | 275 | 3.8 | 244 | 3.3 |
| 50+ | 65 | 0.8 | 66 | 0.8 | 67 | 0.9 | 55 | 0.7 | 74 | 0.9 |
| Pacific |  |  |  |  |  |  |  |  |  |  |
| 12+ | 1,563 | 3.6 | 1,566 | 3.6 | 1,570 | 3.6 | 1,538 | 3.5 | 1,588 | 3.6 |
| 12-17 | 168 | 4.2 | 168 | 4.2 | 169 | 4.2 | 166 | 4.1 | 170 | 4.2 |
| 18+ | 1,395 | 3.5 | 1,397 | 3.5 | 1,401 | 3.5 | 1,372 | 3.5 | 1,418 | 3.5 |
| 18-25 | 448 | 7.8 | 452 | 7.8 | 457 | 7.9 | 466 | 8.0 | 430 | 7.5 |
| 26-49 | 631 | 3.7 | 640 | 3.8 a | 639 | 3.8 | 674 | 4.0 | 588 | 3.4 |
| 50+ | 315 | 1.9 | 306 | 1.8 | 305 | 1.8 | 232 | 1.4 | 399 | 2.3 |
| Division by Hispanicity |  |  |  |  |  |  |  |  |  |  |
| New England |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 54 | 4.5 | 51 | 4.2 | 48 | 3.9 | 57 | 4.7 | 52 | 4.3 |
| Not Hispanic/Latino | 433 | 3.8 | 443 | 3.9 a | 441 | 3.9 | 470 | 4.1 | 395 | 3.5 |
| Middle Atlantic |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 150 | 3.0 | 147 | 2.9 | 141 | 2.8 | 131 | 2.6 | 169 | 3.3 |
| Not Hispanic/Latino | 746 | 2.5 | 757 | 2.5 a | 753 | 2.5 | 717 | 2.4 | 776 | 2.6 |
|  |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 81 | 2.7 | 79 | 2.7 | 80 | 2.7 | 86 | 2.9 | 76 | 2.6 |
| Not Hispanic/Latino | 897 | 2.5 | 908 | 2.5 | 907 | 2.5 | 982 | 2.7 | 813 | 2.2 |
| West North Central |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 20 | 2.1 | 19 | 2.0 | 19 | 2.0 | 17 | 1.8 | 22 | 2.4 |
| Not Hispanic/Latino | 389 | 2.3 | 392 | 2.4 | 395 | 2.4 | 390 | 2.4 | 388 | 2.3 |
| South Atlantic |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 145 | 2.1 | 150 | 2.2 | 141 | 2.1 | 150 | 2.2 | 141 | 2.0 |
| Not Hispanic/Latino | 1,266 | 2.7 | 1,245 | 2.7 | 1,247 | 2.7 | 1,272 | 2.8 | 1,261 | 2.7 |
| East South Central |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 27 | 4.9 | 20 | 3.7 | 19 | 3.3 | 39 | 7.1 | 15 | 2.7 |
| Not Hispanic/Latino | 424 | 2.8 | 423 | 2.8 | 417 | 2.8 | 471 | 3.1 | 377 | 2.5 |

(continued)

Table J. 1 Past Year Illicit Drug Use Disorder (continued)

|  | Domains | FE Sample (2015+2016) |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total (Numbers in 1,000s) | Percent | Total (Numbers in $1,000 s$ ) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent |
|  | West South Central |  |  |  |  |  |  |  |  |  |  |
|  | Hispanic/Latino | 185 | 2.1 | 189 | 2.1 | 177 | 2.0 | 229 | 2.6 | 141 | 1.6 |
|  | Not Hispanic/Latino | 562 | 2.5 | 562 | 2.4 | 538 | 2.3 | 586 | 2.6 | 539 | 2.3 |
|  | Mountain |  |  |  |  |  |  |  |  |  |  |
|  | Hispanic/Latino | 146 | 3.3 | 146 | 3.3 | 149 | 3.3 | 148 | 3.4 | 144 | 3.2 |
|  | Not Hispanic/Latino | 470 | 3.1 | 469 | 3.1 | 465 | 3.1 | 455 | 3.0 | 485 | 3.2 |
|  | Pacific |  |  |  |  |  |  |  |  |  |  |
|  | Hispanic/Latino | 402 | 3.1 | 406 | 3.1 | 410 | 3.1 | 434 | 3.3 | 371 | 2.8 |
|  | Not Hispanic/Latino | 1,161 | 3.8 | 1,159 | 3.8 | 1,161 | 3.8 | 1,104 | 3.6 | 1,217 | 3.9 |
|  | Division by Race |  |  |  |  |  |  |  |  |  |  |
|  | New England |  |  |  |  |  |  |  |  |  |  |
|  | White Only | 420 | 3.9 | 420 | 3.9 | 418 | 3.9 | 455 | 4.2 | 385 | 3.6 |
|  | Black Only | 37 | 4.0 | 39 | 4.3 | 35 | 3.8 | 33 | 3.6 | 41 | 4.4 |
| - | NHOPI Only | - | * | * | * * | * | * * | * | * | * | * * |
| - | Asian Only | 9 | 1.6 | * | * * | * | * * | * | * | 7 | 1.2 * |
|  | AIAN Only | 1 | 1.6 | 1 | 1.0 | 1 | 1.1 | 2 | 2.7 | * | * * |
|  | 2 or More Races | 15 | 6.9 | 17 | 7.8 | 15 | 7.0 | * | * | 12 | $5.4 *$ |
|  | Middle Atlantic |  |  |  |  |  |  |  |  |  |  |
|  | White Only | 669 | 2.5 | 674 | 2.5 | 669 | 2.5 | 644 | 2.4 | 693 | 2.6 |
|  | Black Only | 186 | 3.6 | 186 | 3.6 | 180 | 3.5 | 172 | 3.4 | 200 | 3.9 |
|  | NHOPI Only | 2 | 1.3 | 2 | 1.3 | 2 | 1.3 | * | * | * | * * |
|  | Asian Only | 17 | 0.7 | 18 | 0.7 a | 18 | 0.7 | 20 | 0.8 | 14 | 0.6 |
|  | AIAN Only | 2 | 1.0 | 3 | 1.1 | 3 | 1.1 | 1 | 0.6 | 4 | 1.5 |
|  | 2 or More Races | 20 | 3.3 | 22 | 3.6 | 22 | 3.6 | 8 | 1.3 | 33 | 5.2 a |
|  | East North Central |  |  |  |  |  |  |  |  |  |  |
|  | White Only | 750 | 2.3 | 752 | 2.3 | 755 | 2.3 | 839 | 2.6 | 660 | 2.0 a |
|  | Black Only | 179 | 3.9 | 188 | 4.1 a | 185 | 4.0 | 175 | 3.8 | 182 | 4.0 |
|  | NHOPI Only | * | * | * | * * | * | * * | * | * | * | * * |
|  | Asian Only | 9 | 0.7 | 10 | 0.8 | 10 | 0.8 | 19 | 1.4 | 0 | 0.0 a |
|  | AIAN Only | 9 | 4.3 | 10 | 4.7 | 10 | 4.5 | 3 | 1.5 | 16 | 7.1 |
|  | 2 or More Races | 29 | 4.7 | 25 | 4.1 | 25 | 4.0 | 29 | 4.7 | 30 | 4.7 |

Table J. 1 Past Year Illicit Drug Use Disorder (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (\mathbf{2 0 1 5 + 2 0 1 6}) \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0}$ s) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in 1,000s) | Percent |
| West North Central |  |  |  |  |  |  |  |  |  |  |
| White Only | 343 | 2.2 | 343 | 2.2 | 345 | 2.2 | 357 | 2.3 | 329 | 2.1 |
| Black Only | 41 | 3.6 | 41 | 3.6 | 41 | 3.6 | 33 | 3.0 | 49 | 4.3 |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * * |
| Asian Only | 2 | 0.4 | 2 | 0.5 | 2 | 0.5 | 3 | 0.6 | 1 | 0.2 |
| AIAN Only | 11 | 5.0 | 13 | 5.8 | * | * | 8 | 3.6 | * | * |
| 2 or More Races | 12 | 4.0 | 12 | 3.9 | 10 | 3.4 | 7 | 2.4 | 17 | 5.6 |
| South Atlantic |  |  |  |  |  |  |  |  |  |  |
| White Only | 982 | 2.6 | 953 | 2.5 | 946 | 2.5 | 969 | 2.5 | 994 | 2.6 |
| Black Only | 364 | 3.2 | 371 | 3.2 | 372 | 3.2 | 399 | 3.5 | 330 | 2.8 |
| NHOPI Only | 5 | 2.5 | 5 | 2.5 | 5 | 2.6 | * | * | * | * * |
| Asian Only | 15 | 0.8 | 17 | 0.9 a | 17 | 0.9 | 16 | 0.8 | 15 | 0.8 |
| AIAN Only | 8 | 2.4 | 10 | 3.0 | 9 | 2.5 | 10 | 2.8 | 7 | 1.9 |
| 2 or More Races | 37 | 4.1 | 40 | 4.3 | 40 | 4.4 | 26 | 2.9 | 49 | 5.2 |
| East South Central |  |  |  |  |  |  |  |  |  |  |
| White Only | 354 | 2.9 | 348 | 2.9 | 344 | 2.9 | 417 | 3.5 | 291 | 2.4 a |
| Black Only | 78 | 2.5 | 81 | 2.6 | 81 | 2.6 | 76 | 2.4 | 80 | 2.5 |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * * |
| Asian Only | 4 | 1.9 | 4 | 1.9 | * | * * | * | * | * | * * |
| AIAN Only | * | * | * | * * | * | * * | * | * | * | * * |
| 2 or More Races | * | * | 8 | $3.9 *$ | 8 | 3.9 * | * | * | * | * |
| West South Central |  |  |  |  |  |  |  |  |  |  |
| White Only | 572 | 2.3 | 580 | 2.3 | 556 | 2.2 | 613 | 2.5 | 531 | 2.1 |
| Black Only | 123 | 2.7 | 124 | 2.7 | 123 | 2.7 | 148 | 3.3 | 98 | 2.2 |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * |
| Asian Only | 10 | 0.8 | 8 | 0.7 | 8 | 0.6 | 13 | 1.0 | * | * |
| AIAN Only | 15 | 2.8 | 13 | 2.2 | 4 | 0.7 a | 19 | 3.5 | 12 | 2.0 |
| 2 or More Races | 26 | 4.4 | 25 | 4.3 | 24 | 4.0 | 21 | 3.7 | 31 | 5.1 |
| Mountain |  |  |  |  |  |  |  |  |  |  |
| White Only | 508 | 3.0 | 507 | 3.0 | 508 | 3.0 | 488 | 2.9 | 528 | 3.1 |
| Black Only | 43 | 5.7 | 41 | 5.4 | 41 | 5.4 | 47 | 6.2 | * | * * |
| NHOPI Only | 3 | 2.1 | 3 | 2.1 | 3 | 2.2 | * | * | * | * * |
| Asian Only | 10 | 1.5 | 10 | 1.5 | 10 | 1.6 | * | * | 9 | 1.5 * |
| AIAN Only | 24 | 3.6 | 26 | 3.9 | 27 | 4.0 | 29 | 4.3 | 20 | 2.9 |
| 2 or More Races | 28 | 6.1 | 28 | 6.2 | 25 | 5.5 | 26 | 5.9 | 29 | 6.3 |

Table J. 1 Past Year Illicit Drug Use Disorder (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (2015+2016) \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total <br> (Numbers <br> in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total <br> (Numbers <br> in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent |
| Pacific |  |  |  |  |  |  |  |  |  |  |
| White Only | 1,208 | 3.7 | 1,205 | 3.7 | 1,205 | 3.7 | 1,169 | 3.6 | 1,246 | 3.8 |
| Black Only | 128 | 5.3 | 127 | 5.3 | 127 | 5.3 | 119 | 4.9 | 137 | 5.7 |
| NHOPI Only | 17 | 2.9 | 18 | 2.9 | 17 | 2.8 | 25 | 5.5 | 10 | 1.3 a |
| Asian Only | 101 | 1.7 | 101 | 1.7 | 102 | 1.7 | 88 | 1.4 | 114 | 2.0 |
| AIAN Only | 28 | 3.5 | 30 | 3.8 | 34 | 4.3 | 32 | 4.1 | 24 | 3.0 |
| 2 or More Races | 82 | 5.0 | 85 | 5.1 a | 86 | 5.2 a | 106 | 6.5 | 58 | 3.5 a |
| County Type by Age Group |  |  |  |  |  |  |  |  |  |  |
| Large Metro |  |  |  |  |  |  |  |  |  |  |
| 12+ | 4,330 | 2.9 | 4,410 | 2.9 | 4,392 | 2.9 a | 4,339 | 2.9 | 4,320 | 2.9 |
| 12-17 | 462 | 3.3 | 470 | 3.3 | 472 | 3.3 | 472 | 3.4 | 451 | 3.2 |
| 18+ | 3,868 | 2.8 | 3,940 | 2.9 | 3,920 | 2.8 | 3,868 | 2.9 | 3,869 | 2.8 |
| 18-25 | 1,413 | 7.3 | 1,431 | 7.3 | 1,436 | 7.3 | 1,409 | 7.3 | 1,416 | 7.4 |
| 26-49 | 1,832 | 3.1 | 1,863 | 3.1 | 1,844 | 3.1 | 1,796 | 3.1 | 1,869 | 3.2 |
| 50+ | 624 | 1.1 | 646 | 1.1 a | 640 | 1.1 | 663 | 1.2 | 584 | 1.0 |
| Small Metro, pop 250,000-1,000,000 |  |  |  |  |  |  |  |  |  |  |
| $12+$ | 1,525 | 2.7 | 1,543 | 2.7 | 1,519 | 2.8 | 1,527 | 2.7 | 1,522 | 2.8 |
| 12-17 | 186 | 3.5 | 188 | 3.5 | 185 | 3.5 | 199 | 3.7 | 174 | 3.3 |
| 18+ | 1,338 | 2.7 | 1,354 | 2.7 | 1,334 | 2.7 | 1,328 | 2.6 | 1,349 | 2.7 |
| 18-25 | 506 | 6.8 | 523 | 6.9 a | 520 | 7.0 a | 514 | 6.8 | 499 | 6.8 |
| 26-49 | 563 | 2.9 | 559 | 2.8 | 546 | 2.8 | 571 | 2.9 | 554 | 2.9 |
|  | 269 | 1.2 | 272 | 1.2 | 268 | 1.2 | 242 | 1.0 | 296 | 1.3 |
| Small Metro, <250,000 population |  |  |  |  |  |  |  |  |  |  |
| 12+ | 751 | 2.9 | 748 | 3.0 | 746 | 3.0 | 816 | 3.2 | 686 | 2.7 |
| 12-17 | 69 | 3.1 | 72 | 3.3 | 73 | 3.4 a | 74 | 3.3 | 64 | 3.0 |
| 18+ | 682 | 2.9 | 676 | 2.9 | 673 | 2.9 | 742 | 3.2 | 622 | 2.7 |
| 18-25 | 253 | 7.1 | 257 | 7.2 | 263 | 7.4 a | 278 | 8.0 | 228 | 6.2 |
| 26-49 | 330 | 3.9 | 317 | 3.8 | 303 | 3.6 a | 406 | 4.7 | 253 | 3.0 a |
| 50+ | 99 | 0.9 | 102 | 0.9 a | 107 | 1.0 a | 58 | 0.5 | 140 | 1.2 |

(continued)

Table J. 1 Past Year Illicit Drug Use Disorder (continued)

| Domains | FE Sample$(2015+2016)$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0}$ s) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent |
| Nonmetro, 20,000 or more urban pop |  |  |  |  |  |  |  |  |  |  |
| 12+ | 404 | 2.7 | 387 | 2.6 | 379 | 2.5 | 489 | 3.2 | 320 | 2.1 a |
| 12-17 | 47 | 3.3 | 45 | 3.2 | 42 | 3.0 | 47 | 3.3 | 47 | 3.3 |
| 18+ | 357 | 2.6 | 342 | 2.5 | 337 | 2.5 | 442 | 3.2 | 273 | 2.0 a |
| 18-25 | 146 | 7.3 | 140 | 7.2 | 143 | 7.3 | 170 | 8.3 | 121 | 6.3 |
| 26-49 | 159 | 3.1 | 142 | 2.9 | 143 | 2.9 | 195 | 3.9 | 122 | 2.4 |
| 50+ | 53 | 0.8 | 60 | 0.9 a | 51 | 0.8 | 76 | 1.2 | 29 | 0.4 |
| Nonmetro, 2,500-19,999 urban pop |  |  |  |  |  |  |  |  |  |  |
| $12+$ | 453 | 2.5 | 387 | 2.3 | 380 | 2.4 | 466 | 2.7 | 440 | 2.3 |
| 12-17 | 47 | 3.0 | 44 | 3.1 | 44 | 3.2 | 51 | 3.5 | 44 | 2.6 |
| 18+ | 406 | 2.4 | 343 | 2.3 | 336 | 2.3 | 415 | 2.7 | 397 | 2.2 |
| 18-25 | 130 | 6.5 | 116 | 6.3 | 112 | 6.4 | 128 | 6.6 | 131 | 6.4 |
| 26-49 | 211 | 3.8 | 166 | 3.3 | 163 | 3.3 | 226 | 4.4 | 197 | 3.2 |
| 50+ | 65 | 0.7 | 60 | 0.7 | 60 | 0.7 | 61 | 0.7 | 68 | 0.7 |
| Nonmetro, $<2,500$ urban pop |  |  |  |  |  |  |  |  |  |  |
| $12+$ | 97 | 2.3 | 91 | 2.6 a | 90 | 2.6 a | 101 | 2.2 | 92 | 2.5 |
| 12-17 | 11 | 3.0 | 11 | 3.9 a | 11 | 4.0 a | 12 | 3.2 | 9 | 2.9 |
| 18+ | 86 | 2.3 | 80 | 2.5 a | 79 | 2.5 | 89 | 2.1 | 83 |  |
| 18-25 | 32 | 7.9 | 28 | 9.0 | 28 | 9.1 | * | * | 33 | 9.1 |
| 26-49 | 41 | 3.1 | 42 | 4.0 a | 41 | 4.0 a | 45 | 3.1 | 37 | 3.1 |
| 50+ | 14 | 0.7 | 10 | 0.6 | 10 | 0.6 | 13 | 0.6 | 14 | 0.8 |
| County Type by Hispanicity |  |  |  |  |  |  |  |  |  |  |
| Large Metro |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 758 | 2.5 | 763 | 2.5 | 756 | 2.5 | 784 | 2.6 | 732 | 2.4 |
| Not Hispanic/Latino | 3,572 | 3.0 | 3,647 | 3.0 | 3,636 | 2.9 | 3,556 | 3.0 | 3,588 | 3.0 |
| Small Metro, pop 250,000-1,000,000 |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 245 | 2.8 | 250 | 2.9 | 231 | 2.7 | 274 | 3.3 | 217 | 2.4 |
| Not Hispanic/Latino | 1,279 | 2.7 | 1,292 | 2.7 | 1,288 | 2.8 | 1,253 | 2.6 | 1,305 | 2.8 |
| Small Metro, <250,000 population |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 114 | 4.2 | 113 | 4.2 | 116 | 4.3 | 136 | 5.2 | 92 | 3.2 |
| Not Hispanic/Latino | 637 | 2.8 | 635 | 2.8 | 631 | 2.8 | 680 | 3.0 | 594 | 2.6 |
| Nonmetro, 20,000 or more urban pop |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 45 | 3.7 | 37 | 3.1 | 35 | 3.0 | 49 | 3.7 | 41 | 3.6 |
| Not Hispanic/Latino | 360 | 2.6 | 351 | 2.5 | 345 | 2.5 | 440 | 3.2 | 279 | 2.0 a |

Table J. 1 Past Year Illicit Drug Use Disorder (continued)

| Domains | FE Sample (2015+2016) |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total <br> (Numbers <br> in 1,000s) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total <br> (Numbers <br> in 1,000s) | Percent |
| Nonmetro, 2,500-19,999 urban pop |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 28 | 2.8 | 24 | 2.7 | 23 | 2.6 | 25 | 3.0 | 31 | 2.7 |
| Not Hispanic/Latino | 425 | 2.5 | 363 | 2.3 | 357 | 2.3 | 441 | 2.7 | 409 | 2.2 |
| Nonmetro, <2,500 urban pop |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 20 | 14.4 | 21 | 16.8 | * | * * | * | * | * | * * |
| Not Hispanic/Latino | 76 | 1.9 | 70 | 2.1 | 68 | 2.1 | 77 | 1.8 | 75 | 2.1 |
| County Type by Race |  |  |  |  |  |  |  |  |  |  |
| Large Metro |  |  |  |  |  |  |  |  |  |  |
| White Only | 3,164 | 2.9 | 3,214 | 2.9 | 3,207 | 2.8 a | 3,167 | 2.9 | 3,160 | 2.9 |
| Black Only | 813 | 3.6 | 830 | 3.6 | 819 | 3.6 | 829 | 3.7 | 797 | 3.5 |
| NHOPI Only | 24 | 2.8 | 25 | 2.9 | 25 | 2.9 | 30 | 4.4 | 17 | 1.7 |
| Asian Only | 154 | 1.3 | 157 | 1.3 | 158 | 1.3 | 158 | 1.4 | 149 | 1.3 |
| AIAN Only | 41 | 2.7 | 44 | 2.9 | 45 | 2.7 | 44 | 2.8 | 39 | 2.7 |
| 2 or More Races | 135 | 4.6 | 140 | 4.6 | 138 | 4.4 | 112 | 4.0 | 157 | 5.3 |
| Small Metro, pop 250,000-1,000,000 |  |  |  |  |  |  |  |  |  |  |
| White Only | 1,244 | 2.7 | 1,252 | 2.7 | 1,231 | 2.7 | 1,262 | 2.8 | 1,226 | 2.7 |
| Black Only | 176 | 3.0 | 184 | 3.1 a | 184 | 3.1 | 162 | 2.7 | 190 | 3.3 |
| NHOPI Only | 8 | 2.6 | 9 | 2.8 | 8 | 2.6 | 8 | 3.1 | 7 | 2.2 |
| Asian Only | 17 | 0.8 | 18 | 0.9 | 16 | 0.8 | 14 | 0.7 | 20 | 1.0 |
| AIAN Only | 12 | 1.9 | 11 | 1.7 | 14 | 2.0 | 11 | 1.8 | 13 | 2.0 |
| 2 or More Races | 67 | 5.0 | 69 | 5.0 | 66 | 5.0 | 68 | 5.1 | 67 | 4.8 |
| Small Metro, <250,000 population |  |  |  |  |  |  |  |  |  |  |
| White Only | 626 | 2.9 | 617 | 2.9 | 618 |  | 681 | 3.2 | 572 | 2.6 |
| Black Only | 83 | 3.4 | 86 | 3.6 a | 80 | 3.6 | 89 | 3.5 | 76 | 3.3 |
| NHOPI Only | 3 | 3.3 | * |  | * | * * | * | * | * | * |
| Asian Only | 5 | 0.8 | 5 | 1.0 | 5 | 0.8 | 4 | 0.7 | 5 | 0.9 |
| AIAN Only | 11 | 3.7 | 11 | 3.2 | 14 | 3.6 | 7 | 2.4 | 14 | 4.9 |
| 2 or More Races | 24 | 5.0 | 26 | 5.8 a | 26 | 5.8 a | * | * | 17 | 3.4 * |
| Nonmetro, 20,000 or more urban pop |  |  |  |  |  |  |  |  |  |  |
| White Only | 334 | 2.6 | 318 | 2.5 | 311 | 2.4 | 404 | 3.1 | 264 | 2.0 a |
| Black Only | 44 | 3.3 | 41 | 3.1 | 42 | 3.1 | 47 | 3.9 | 42 | 2.9 |
| NHOPI Only | 2 | 2.6 | 1 | 1.4 | * | * * | * | * | * | * * |
| Asian Only | 1 | 0.7 | 1 | 0.4 | 1 | 0.4 | 2 | 1.0 | 0 | 0.2 |
| AIAN Only | 9 | 3.4 | 13 | 4.4 | 12 | 4.4 | 12 | 5.1 | 7 | 2.1 |
| 2 or More Races | 14 | 4.0 | 13 | 4.5 | 13 | 4.6 | 21 | 5.0 | 6 | 2.3 |

(continued)

Table J. 1 Past Year Illicit Drug Use Disorder (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (\mathbf{2 0 1 5 + 2 0 1 6 )} \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent |
| Nonmetro, 2,500-19,999 urban pop |  |  |  |  |  |  |  |  |  |  |
| White Only | 363 | 2.3 | 311 | 2.2 | 308 | 2.2 | 363 | 2.5 | 364 | 2.2 |
| Black Only | 51 | 3.0 | 46 | 3.0 | 47 | 3.2 | 56 | 3.7 | 46 | 2.5 |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * * |
| Asian Only | * | * | * | * * | * | * * | * | * | * | * * |
| AIAN Only | 23 | 6.4 | 21 | 7.2 | * | * * | 28 | 8.1 | 19 | 5.0 |
| 2 or More Races | 15 | 4.2 | 9 | 2.9 | 8 | 2.7 | 17 | 6.0 | 12 | 2.9 |
| Nonmetro, <2,500 urban pop |  |  |  |  |  |  |  |  |  |  |
| White Only | 72 | 2.0 | 69 | 2.2 a | 70 | 2.3 a | 75 | 1.9 | 69 | 2.1 |
| Black Only | * | * | * | * * | * | * * | * | * | * | * * |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * * |
| Asian Only | * | * | * | * * | * | * * | * | * | * | * * |
| AIAN Only | 6 | 5.6 | 7 | 9.6 | * | * * | 3 | 3.5 | 9 | 7.2 |
| 2 or More Races | * | * | * | * * | * | * * | * | * | * | * |
| College Enrollment by Gender |  |  |  |  |  |  |  |  |  |  |
| Persons Aged 18 to $22^{1}$ |  |  |  |  |  |  |  |  |  |  |
| Male | 998 | 9.2 | 1,003 | 9.2 | 1,002 | 9.4 | 989 | 9.1 | 1,007 | 9.3 |
| Female | 610 | 5.9 | 609 | 5.9 | 603 | 5.9 | 632 | 6.1 | 588 | 5.8 |
| Full-Time College Students |  |  |  |  |  |  |  |  |  |  |
| Male | 294 | 8.0 | 298 | 8.0 | 281 | 8.1 | 295 | 7.9 | 293 | 8.2 |
| Female | 190 | 4.5 | 186 | 4.4 | 177 | 4.4 | 188 | 4.5 | 193 | 4.4 |
| Other Persons Aged 18 to $22^{2}$ |  |  |  |  |  |  |  |  |  |  |
| Male | 704 | 9.8 | 705 | 9.9 | 721 | 10.0 | 694 | 9.8 | 714 | 9.8 |
| Female | 419 | 6.9 | 422 | 7.0 | 426 | 7.0 | 444 | 7.1 | 395 | 6.8 |
| Age Group by Gender |  |  |  |  |  |  |  |  |  |  |
| 12+ |  |  |  |  |  |  |  |  |  |  |
| Male | 4,760 | 3.7 | 4,776 | 3.7 | 4,723 | 3.6 | 4,985 | 3.8 | 4,535 | 3.5 |
| Female | 2,799 | 2.0 | 2,790 | 2.0 | 2,784 | 2.0 | 2,752 | 2.0 | 2,846 | 2.1 |
| 12-17 |  |  |  |  |  |  |  |  |  |  |
| Male | 418 | 3.3 | 426 | 3.4 a | 422 | 3.3 | 431 | 3.4 | 405 | 3.2 |
| Female | 404 | 3.3 | 404 | 3.3 | 405 | 3.3 | 424 | 3.5 | 384 | 3.1 |
| 18+ |  |  |  |  |  |  |  |  |  |  |
| Male | 4,342 | 3.7 | 4,349 | 3.7 | 4,301 | 3.7 | 4,555 | 3.9 | 4,130 | 3.5 |
| Female | 2,395 | 1.9 | 2,386 | 1.9 | 2,379 | 1.9 | 2,328 | 1.9 | 2,462 | 1.9 |

Table J. 1 Past Year Illicit Drug Use Disorder (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (2015+2016) \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in $\mathbf{1 , 0 0 0}$ s) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in 1,000s) | Percent |
| 18-25 |  |  |  |  |  |  |  |  |  |  |
| Male | 1,562 | 9.0 | 1,573 | 9.0 | 1,578 | 9.0 | 1,596 | 9.1 | 1,527 | 8.8 |
| Female | 918 | 5.3 | 923 | 5.3 | 924 | 5.3 | 934 | 5.4 | 902 | 5.2 |
| 26-49 |  |  |  |  |  |  |  |  |  |  |
| Male | 2,060 | 4.2 | 2,029 | 4.2 | 1,981 | 4.1 a | 2,216 | 4.6 | 1,904 | 3.9 |
| Female | 1,075 | 2.1 | 1,060 | 2.1 | 1,058 | 2.1 | 1,023 | 2.0 | 1,128 | 2.2 |
| 50+ |  |  |  |  |  |  |  |  |  |  |
| Male | 721 | 1.4 | 747 | 1.5 a | 741 | 1.4 | 743 | 1.5 | 699 | 1.3 |
| Female | 402 | 0.7 | 403 | 0.7 | 397 | 0.7 | 371 | 0.6 | 433 | 0.7 |
| Age Group by Race |  |  |  |  |  |  |  |  |  |  |
| 12+ |  |  |  |  |  |  |  |  |  |  |
| White Only | 5,804 | 2.8 | 5,781 | 2.8 | 5,745 | 2.7 | 5,952 | 2.8 | 5,656 | 2.7 |
| Black Only | 1,178 | 3.5 | 1,198 | 3.5 | 1,185 | 3.5 | 1,201 | 3.5 | 1,156 | 3.4 |
| NHOPI Only | 36 | 2.7 | 37 | 2.8 | 36 | 2.8 | 44 | 4.0 | 27 | 1.8 |
| Asian Only | 178 | 1.2 | 182 | 1.2 | 180 | 1.2 | 181 | 1.2 | 174 | 1.2 |
| AIAN Only | 103 | 3.2 | 107 | 3.4 | 105 | 3.3 | 105 | 3.3 | 101 | 3.2 |
| 2 or More Races | 261 | 4.7 | 261 | 4.7 | 255 | 4.6 | 255 | 4.7 | 267 | 4.7 |
| 12-17 |  |  |  |  |  |  |  |  |  |  |
| White Only | 629 | 3.4 | 632 | 3.4 | 631 | 3.4 | 660 | 3.6 | 598 | 3.3 |
| Black Only | 104 | 2.8 | 105 | 2.8 | 105 | 2.8 | 103 | 2.7 | 105 | 2.8 |
| NHOPI Only | 10 | 5.4 | 9 | 5.2 | 9 | 5.3 | * | * | 5 | 3.0 * |
| Asian Only | 25 | 1.9 | 25 | 1.9 | 25 | 1.9 | 20 | 1.6 | 29 | 2.1 |
| AIAN Only | 12 | 3.1 | 15 | 3.7 | 14 | 3.5 | 13 | 3.1 | 12 | 3.1 |
| 2 or More Races | 42 | 4.5 | 43 | 4.7 | 43 | 4.6 | 44 | 4.8 | 40 | 4.2 |
| 18+ |  |  |  |  |  |  |  |  |  |  |
| White Only | 5,174 | 2.7 | 5,149 | 2.7 | 5,114 | 2.7 | 5,291 | 2.8 | 5,058 | 2.6 |
| Black Only | 1,075 | 3.5 | 1,093 | 3.6 | 1,080 | 3.6 | 1,098 | 3.6 | 1,051 | 3.4 |
| NHOPI Only | 26 | 2.3 | 28 | 2.4 | 28 | 2.4 | 29 | 3.3 | 22 | 1.6 |
| Asian Only | 153 | 1.1 | 157 | 1.2 | 155 | 1.1 | 161 | 1.2 | 145 | 1.1 |
| AIAN Only | 91 | 3.3 | 92 | 3.3 | 91 | 3.3 | 92 | 3.4 | 89 | 3.2 |
| 2 or More Races | 219 | 4.7 | 217 | 4.7 | 212 | 4.6 | 211 | 4.6 | 227 | 4.8 |

Table J. 1 Past Year Illicit Drug Use Disorder (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (2015+2016) \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in 1,000s) | Percent |
| 18-25 |  |  |  |  |  |  |  |  |  |  |
| White Only | 1,844 | 7.2 | 1,852 | 7.2 | 1,857 | 7.3 | 1,876 | 7.3 | 1,811 | 7.1 |
| Black Only | 411 | 7.7 | 417 | 7.8 | 425 | 8.0 a | 415 | 7.7 | 408 | 7.7 |
| NHOPI Only | 14 | 5.8 | 15 | 6.2 a | 15 | 6.3 a | 18 | 7.2 | 10 | 4.3 |
| Asian Only | 68 | 3.2 | 68 | 3.2 | 65 | 3.1 | 86 | 4.2 | 51 | 2.3 |
| AIAN Only | 40 | 7.6 | 41 | 7.7 | 41 | 7.6 | 35 | 6.7 | 45 | 8.4 |
| 2 or More Races | 102 | 10.6 | 103 | 10.8 | 100 | 10.3 | 101 | 10.1 | 103 | 11.2 |
| 26-49 |  |  |  |  |  |  |  |  |  |  |
| White Only | 2,520 | 3.4 | 2,474 | 3.3 | 2,446 | 3.3 a | 2,575 | 3.4 | 2,465 | 3.3 |
| Black Only | 402 | 3.0 | 403 | 3.1 | 386 | 2.9 | 434 | 3.3 | 370 | 2.8 |
| NHOPI Only | 12 | 2.3 | 13 | 2.6 | 13 | 2.6 | 12 | 2.7 | 12 | 2.0 |
| Asian Only | 64 | 0.9 | 65 | 0.9 | 65 | 0.9 | 64 | 0.9 | 63 | 0.9 |
| AIAN Only | 45 | 3.4 | 44 | 3.3 | 41 | 3.0 | 51 | 3.8 | 39 | 2.9 |
| 2 or More Races | 93 | 4.9 | 89 | 4.6 | 88 | 4.6 | 103 | 5.6 | 83 | 4.2 |
| 50+ |  |  |  |  |  |  |  |  |  |  |
| White Only | 811 | 0.9 | 823 | 0.9 | 811 | 0.9 | 840 | 0.9 | 781 | 0.9 |
| Black Only | 262 | 2.2 | 272 | 2.3 a | 269 | 2.3 | 250 | 2.1 | 274 | 2.3 |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * |
| Asian Only | 21 | 0.5 | 24 | 0.5 | 25 | 0.6 | 11 | 0.2 | * | * |
| AIAN Only | 6 | 0.6 | 7 | 0.7 | 9 | 1.0 | 6 | 0.7 | 5 | 0.5 |
| 2 or More Races | 24 | 1.3 | 25 | 1.4 | 24 | 1.4 | 7 | 0.4 | 40 | 2.2 |
| Age Group by Hispanicity 12+ |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 1,210 | 2.8 | 1,208 | 2.7 | 1,182 | 2.7 | 1,291 | 3.0 | 1,130 | 2.5 |
| Not Hispanic/Latino | 6,349 | 2.8 | 6,357 | 2.8 | 6,324 | 2.8 | 6,447 | 2.9 | 6,251 | 2.8 |
| 12-17 |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 223 | 3.8 | 220 | 3.8 | 220 | 3.8 | 250 | 4.3 | 196 | 3.4 |
| Not Hispanic/Latino | 599 | 3.1 | 610 | 3.2 a | 608 | 3.2 | 605 | 3.2 | 593 | 3.1 |
| 18+ |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 987 | 2.6 | 988 | 2.6 | 963 | 2.5 | 1,041 | 2.8 | 934 | 2.4 |
| Not Hispanic/Latino | 5,750 | 2.8 | 5,747 | 2.8 | 5,717 | 2.8 | 5,842 | 2.8 | 5,658 | 2.7 |
| 18-25 |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 481 | 6.4 | 483 | 6.5 | 478 | 6.4 | 506 | 6.8 | 456 | 6.1 |
| Not Hispanic/Latino | 1,998 | 7.3 | 2,013 | 7.4 | 2,024 | 7.4 | 2,024 | 7.4 | 1,972 | 7.3 |

Table J. 1 Past Year Illicit Drug Use Disorder (continued)


Table J. 1 Past Year Illicit Drug Use Disorder (continued)

| Domains | FE Sample (2015+2016) |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent |
| Not Pregnant Female Aged 15-44 |  |  |  |  |  |  |  |  |  |  |
| White Only | 1,633 | 3.6 | 1,620 | 3.6 | 1,620 | 3.6 | 1,600 | 3.6 | 1,665 | 3.7 |
| Black Only | 286 | 3.1 | 285 | 3.1 | 287 | 3.2 | 283 | 3.1 | 289 | 3.1 |
| NHOPI Only | 13 | 3.3 | 13 | 3.5 | 12 | 3.4 | 20 | 5.6 | 6 | 1.3 |
| Asian Only | 33 | 0.8 | 34 | 0.8 | 33 | 0.8 | 38 | 0.9 | 29 | 0.7 |
| AIAN Only | 31 | 3.8 | 36 | 4.3 a | 43 | 4.9 | 31 | 3.8 | 31 | 3.7 |
| 2 or More Races | 96 | 6.5 | 97 | 6.5 | 92 | 6.2 | 106 | 7.2 | 85 | 5.8 |
| Pregnancy by Hispanicity |  |  |  |  |  |  |  |  |  |  |
| Female Aged 15-44 ${ }^{3}$ |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 362 | 2.8 | 361 | 2.8 | 358 | 2.8 | 419 | 3.3 | 305 | 2.4 a |
| Not Hispanic/Latino | 1,798 | 3.6 | 1,791 | 3.6 | 1,798 | 3.6 | 1,735 | 3.5 | 1,860 | 3.7 |
| Pregnant Female Aged 15-44 |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 11 | 2.3 | 12 | 2.5 | 12 | 2.4 | 8 | 1.6 | 15 | 3.1 |
| Not Hispanic/Latino | 57 | 3.2 | 55 | 3.0 | 55 | 3.0 | 69 | 3.8 | 45 | 2.5 |
| Not Pregnant Female Aged 15-44 |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 351 | 2.8 | 349 | 2.8 | 346 | 2.8 | 411 | 3.3 | 290 | 2.3 a |
| Not Hispanic/Latino | 1,741 | 3.6 | 1,736 | 3.6 | 1,742 | 3.6 | 1,666 | 3.5 | 1,815 | 3.7 |

* = low precision; -- = not available; AIAN = American Indian or Alaska Native; $\mathrm{FE}=$ field enumeration; $\mathrm{GQ}=$ group quarters; NHOPI $=$ Native Hawaiian or Other Pacific Islander; pop = population.
${ }^{1}$ Excludes those with unknown enrollment status.
${ }^{2}$ Other Persons include respondents aged 18 to 22 not enrolled in school, enrolled in college part time, enrolled in other grades either full or part time, or enrolled with no other information available.
${ }^{3}$ Excludes those with unknown pregnancy status.
${ }^{a}$ The difference between this estimate and the person sample estimate is statistically significant at the .05 level.


## Appendix K: 2015-2016 NSDUH - Weighted Annual Averages Past Year Any Mental Illness (AMI) (Aged 18 or Older) - AMIYR_U

Table K. 1 Past Year Any Mental Illness (AMI) (Aged 18 or Older)


Table K. 1 Past Year Any Mental IIIness (AMI) (Aged 18 or Older) (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (2015+2016) \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in 1,000s) | Percent |
| County Type |  |  |  |  |  |  |  |  |  |  |
| Large Metro | 23,756 | 17.5 | 24,236 | 17.6 a | 24,512 | 17.6 | 23,474 | 17.3 | 24,038 | 17.6 |
| Small Metro, pop 250,000-1,000,000 | 9,675 | 19.2 | 9,765 | 19.2 | 9,545 | 19.1 | 9,547 | 18.9 | 9,804 | 19.6 |
| Small Metro, <250,000 population | 4,275 | 18.3 | 4,203 | 18.2 | 4,205 | 18.3 | 4,286 | 18.3 | 4,263 | 18.2 |
| Nonmetro, 20,000 or more urban pop | 2,564 | 18.5 | 2,496 | 18.4 | 2,473 | 18.3 | 2,666 | 19.4 | 2,461 | 17.7 |
| Nonmetro, 2,500-19,999 urban pop | 3,111 | 18.7 | 2,804 | 18.4 | 2,749 | 18.7 | 2,731 | 17.5 | 3,491 | 19.8 |
| Nonmetro, <2,500 urban pop | 655 | 17.3 | 568 | 18.0 | 567 | 18.1 | 717 | 17.1 | 594 | 17.6 |
| College Enrollment |  |  |  |  |  |  |  |  |  |  |
| Persons Aged 18 to $22^{1}$ | 4,575 | 21.6 | 4,589 | 21.7 | 4,519 | 21.7 | 4,559 | 21.4 | 4,591 | 21.8 |
| Full-Time College Students | 1,667 | 21.0 | 1,668 | 20.9 | 1,549 | 20.7 | 1,690 | 21.4 | 1,645 | 20.6 |
| Other Persons Aged 18 to $22^{2}$ | 2,908 | 22.0 | 2,921 | 22.2 a | 2,969 | 22.2 a | 2,869 | 21.5 | 2,946 | 22.5 |
| Pregnancy |  |  |  |  |  |  |  |  |  |  |
| Female Aged 18-44 ${ }^{3}$ | 14,685 | 25.8 | 14,727 | 25.9 | 14,778 | 26.0 a | 14,542 | 25.7 | 14,827 | 25.9 |
| Pregnant Female Aged 18-44 | 393 | 17.6 | 396 | 17.6 | 397 | 17.5 | 383 | 17.0 | 404 | 18.2 |
| Not Pregnant Female Aged 18-44 | 14,291 | 26.1 | 14,331 | 26.2 | 14,381 | 26.3 a | 14,159 | 26.0 | 14,423 | 26.2 |
| Division by Age Group |  |  |  |  |  |  |  |  |  |  |
| New England |  |  |  |  |  |  |  |  |  |  |
| $12+$ | -- | -- | -- | - | -- | - -- | -- | -- | -- | -- -- |
| 12-17 | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 18+ | 2,222 | 19.2 | 2,230 | 19.3 | 2,221 | 19.2 | 2,249 | 19.5 | 2,195 | 18.9 |
| 18-25 | 403 | 24.4 | 400 | 24.2 | 401 | 24.3 | 390 | 23.6 | 417 | 25.2 |
| 26-49 | 1,045 | 23.5 | 1,053 | 23.7 | 1,045 | 23.5 | 1,105 | 24.8 | 985 | 22.3 |
| 50+ | 773 | 14.1 | 778 | 14.2 | 775 | 14.1 | 754 | 13.8 | 792 | 14.4 |
| Middle Atlantic |  |  |  |  |  |  |  |  |  |  |
| 12+ | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 12-17 | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 18+ | 5,586 | 17.4 | 5,579 | 17.4 | 5,570 | 17.3 | 5,457 | 17.0 | 5,715 | 17.8 |
| 18-25 | 985 | 22.2 | 990 | 22.3 | 991 | 22.4 | 988 | 22.1 | 982 | 22.3 |
| 26-49 | 2,554 | 19.9 | 2,564 | 20.0 | 2,553 | 19.9 | 2,473 | 19.2 | 2,634 | 20.6 |
| 50+ | 2,048 | 13.8 | 2,026 | 13.6 | 2,025 | 13.6 | 1,996 | 13.5 | 2,100 | 14.1 |

Table K. 1 Past Year Any Mental IIlness (AMI) (Aged 18 or Older) (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (2015+2016) \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent |
| East North Central |  |  |  |  |  |  |  |  |  |  |
| 12+ | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 12-17 | -- | -- | -- | -- -- | -- | -- | -- | -- | -- | -- |
| 18+ | 6,274 | 17.7 | 6,373 | 17.9 a | 6,361 | 17.9 a | 6,467 | 18.2 | 6,081 | 17.1 |
| 18-25 | 1,156 | 22.8 | 1,164 | 22.9 | 1,159 | 22.9 | 1,150 | 22.6 | 1,162 | 23.0 |
| 26-49 | 2,896 | 20.7 | 2,919 | 20.9 | 2,919 | 20.9 | 2,961 | 21.2 | 2,830 | 20.3 |
| 50+ | 2,222 | 13.5 | 2,291 | 13.9 a | 2,283 | 13.8 a | 2,356 | 14.3 | 2,088 | 12.6 |
| West North Central |  |  |  |  |  |  |  |  |  |  |
| $12+$ | -- | -- | -- | -- | -- | - | -- | -- | -- | -- -- |
| 12-17 | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- |
| 18+ | 2,777 | 17.5 | 2,788 | 17.6 | 2,806 | 17.7 | 2,700 | 17.1 | 2,854 | 18.0 |
| 18-25 | 485 | 20.9 | 492 | 21.2 | 493 | 21.2 | 451 | 19.4 | 519 | 22.4 |
| 26-49 | 1,258 | 20.2 | 1,245 | 20.0 | 1,246 | 20.0 | 1,192 | 19.2 | 1,323 | 21.3 |
| 50+ | 1,035 | 14.2 | 1,051 | 14.4 | 1,067 | 14.6 | 1,057 | 14.5 | 1,012 | 13.8 |
| South Atlantic |  |  |  |  |  |  |  |  |  |  |
| 12+ | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 12-17 | -- | -- | -- | -- - | -- | -- | -- | -- | -- | -- -- |
| 18+ | 8,867 | 18.3 | 8,790 | 18.1 | 8,773 | 18.1 | 8,724 | 18.1 | 9,010 | 18.5 |
| 18-25 | 1,374 | 21.0 | 1,375 | 21.0 | 1,386 | 21.2 | 1,378 | 20.9 | 1,371 | 21.1 |
| 26-49 | 3,905 | 20.3 | 3,887 | 20.2 | 3,876 | 20.1 | 3,974 | 20.7 | 3,836 | 19.8 |
| 50+ | 3,588 | 15.8 | 3,527 | 15.6 | 3,511 | 15.5 | 3,373 | 15.0 | 3,803 | 16.6 |
| East South Central |  |  |  |  |  |  |  |  |  |  |
| 12+ | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 12-17 | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 18+ | 2,855 | 20.0 | 2,814 | 19.8 | 2,811 | 19.7 | 2,884 | 20.3 | 2,827 | 19.8 |
| 18-25 | 395 | 19.5 | 392 | 19.3 | 395 | 19.5 | 372 | 18.3 | 418 | 20.7 |
| 26-49 | 1,344 | 23.9 | 1,309 | 23.3 | 1,306 | 23.2 | 1,326 | 23.6 | 1,362 | 24.2 |
| 50+ | 1,116 | 16.9 | 1,113 | 16.9 | 1,111 | 16.8 | 1,185 | 18.1 | 1,047 | 15.8 |
| West South Central |  |  |  |  |  |  |  |  |  |  |
| 12+ | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- |
| 12-17 | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 18+ | 4,733 | 16.6 | 4,769 | 16.7 | 4,785 | 16.8 | 4,665 | 16.5 | 4,801 | 16.8 |
| 18-25 | 819 | 18.9 | 830 | 19.2 | 824 | 19.0 | 817 | 18.8 | 822 | 19.0 |
| 26-49 | 2,358 | 19.2 | 2,372 | 19.3 | 2,415 | 19.7 | 2,355 | 19.3 | 2,362 | 19.1 |
| 50+ | 1,555 | 13.1 | 1,567 | 13.2 | 1,546 | 13.0 | 1,493 | 12.7 | 1,618 | 13.5 |

Table K. 1 Past Year Any Mental IIIness (AMI) (Aged 18 or Older) (continued)

| Domains | FE Sample$(2015+2016)$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample <br> Excluding GQ, AIAN <br> Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total <br> (Numbers <br> in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent |
| Mountain |  |  |  |  |  |  |  |  |  |  |
| 12+ | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 12-17 | -- | -- | -- | -- | -- | -- -- | -- | -- | -- | -- |
| 18+ | 3,456 | 19.7 | 3,490 | 19.9 | 3,483 | 19.8 | 3,492 | 20.0 | 3,420 | 19.3 |
| 18-25 | 617 | 23.8 | 624 | 24.1 | 617 | 23.8 | 584 | 22.6 | 651 | 25.1 |
| 26-49 | 1,713 | 23.6 | 1,723 | 23.8 | 1,719 | 23.7 | 1,763 | 24.5 | 1,662 | 22.7 |
| 50+ | 1,126 | 14.5 | 1,144 | 14.8 | 1,147 | 14.8 | 1,144 | 14.9 | 1,108 | 14.2 |
| Pacific |  |  |  |  |  |  |  |  |  |  |
| 12+ | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- -- |
| 12-17 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- -- |
| 18+ | 7,266 | 18.2 | 7,238 | 18.2 | 7,241 | 18.2 | 6,783 | 17.1 | 7,749 | 19.4 a |
| 18-25 | 1,369 | 23.7 | 1,371 | 23.7 | 1,363 | 23.6 | 1,444 | 24.8 | 1,294 | 22.6 |
| 26-49 | 3,674 | 21.6 | 3,681 | 21.7 | 3,684 | 21.7 | 3,440 | 20.3 | 3,908 | 22.9 a |
| 50+ | 2,223 | 13.0 | 2,186 | 12.8 | 2,194 | 12.9 | 1,899 | 11.2 | 2,546 | 14.8 a |
| Division by Hispanicity |  |  |  |  |  |  |  |  |  |  |
| New England |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 173 | 16.5 | 174 | 16.6 | 169 | 16.1 | 171 | 16.5 | 175 | 16.4 |
| Not Hispanic/Latino | 2,049 | 19.5 | 2,056 | 19.5 | 2,052 | 19.5 | 2,079 | 19.8 | 2,020 | 19.2 |
| Middle Atlantic |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 786 | 17.5 | 771 | 17.2 | 759 | 16.9 | 700 | 15.7 | 871 | 19.3 |
| Not Hispanic/Latino | 4,800 | 17.4 | 4,808 | 17.4 | 4,810 | 17.4 | 4,757 | 17.2 | 4,844 | 17.6 |
| East North Central |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 398 | 15.9 | 410 | 16.3 | 409 | 16.3 | 413 | 16.6 | 383 | 15.2 |
| Not Hispanic/Latino | 5,875 | 17.8 | 5,963 | 18.1 a | 5,953 | 18.0 a | 6,053 | 18.3 | 5,697 | 17.3 |
| West North Central |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 100 | 12.6 | 90 | 11.4 | 87 | 11.1 | 69 | 8.8 | 130 | 16.4 a |
| Not Hispanic/Latino | 2,678 | 17.8 | 2,698 | 17.9 | 2,719 | 18.1 | 2,631 | 17.5 | 2,724 | 18.1 |
| South Atlantic |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 900 | 14.8 | 925 | 15.2 a | 921 | 15.1 | 883 | 14.7 | 917 | 14.9 |
| Not Hispanic/Latino | 7,967 | 18.8 | 7,864 | 18.5 a | 7,852 | 18.5 a | 7,842 | 18.6 | 8,093 | 19.0 |
| East South Central |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 106 | 22.4 | 94 | 19.9 | 95 | 20.1 | * | * | * | * * |
| Not Hispanic/Latino | 2,749 | 20.0 | 2,720 | 19.7 | 2,717 | 19.7 | 2,788 | 20.3 | 2,711 | 19.6 |

Table K. 1 Past Year Any Mental IIlness (AMI) (Aged 18 or Older) (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (2015+2016) \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0}$ s) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in 1,000 s) | Percent |
| West South Central |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 969 | 12.7 | 993 | 13.0 | 991 | 13.0 | 894 | 11.9 | 1,044 | 13.6 |
| Not Hispanic/Latino | 3,764 | 18.0 | 3,777 | 18.1 | 3,794 | 18.2 | 3,770 | 18.1 | 3,758 | 17.9 |
| Mountain |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 635 | 16.6 | 645 | 16.9 | 645 | 16.9 | 622 | 16.5 | 648 | 16.8 |
| Not Hispanic/Latino | 2,821 | 20.5 | 2,845 | 20.7 | 2,838 | 20.6 | 2,869 | 21.0 | 2,772 | 20.0 |
| Pacific |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 1,711 | 15.1 | 1,674 | 14.8 | 1,665 | 14.7 | 1,653 | 14.7 | 1,768 | 15.5 |
| Not Hispanic/Latino | 5,555 | 19.5 | 5,565 | 19.5 | 5,576 | 19.6 | 5,129 | 18.1 | 5,980 | 20.9 a |
| Division by Race |  |  |  |  |  |  |  |  |  |  |
| New England |  |  |  |  |  |  |  |  |  |  |
| White Only | 1,945 | 19.5 | 1,947 | 19.5 | 1,949 | 19.6 | 1,965 | 19.7 | 1,926 | 19.3 |
| Black Only | 138 | 17.0 | 141 | 17.4 | 133 | 16.4 | 128 | 16.0 | 147 | 17.9 |
| NHOPI Only | * | * | * | * * | * | * * |  | * | * | * * |
| Asian Only | 73 | 13.9 | 72 | 14.1 | 70 | 13.9 | 70 | 13.7 | * | * * |
| AIAN Only | * | * | * | * | * | * * | * | * | * | * * |
| 2 or More Races | * | * | * | * | * |  | * | * | * | * * |
| Middle Atlantic |  |  |  |  |  |  |  |  |  |  |
| White Only | 4,392 | 18.0 | 4,407 | 18.1 | 4,398 | 18.1 | 4,221 | 17.3 | 4,563 | 18.8 |
| Black Only | 802 | 17.5 | 783 | 17.0 | 781 | 17.0 | 854 | 18.6 | 750 | 16.3 |
| NHOPI Only | * | * | * | * * | * | * | * | * | * | * * |
| Asian Only | 220 | 9.5 | 217 | 9.4 | 217 | 9.4 | 207 | 8.9 | 233 | 10.1 |
| AIAN Only | 30 | 14.1 | 30 | 14.1 | 30 | 14.2 | 39 | 18.4 | 21 | 9.8 |
| 2 or More Races | 130 | 25.4 | 128 | 25.0 | 129 | 25.1 | 129 | 25.5 | 131 | 25.2 |
| East North Central |  |  |  |  |  |  |  |  |  |  |
| White Only | 5,396 | 18.2 | 5,460 | 18.5 a | 5,453 | 18.4 a | 5,582 | 18.9 | 5,209 | 17.6 |
| Black Only | 566 | 13.9 | 571 | 14.1 | 569 | 14.0 | 608 | 15.0 | 525 | 12.9 |
| NHOPI Only | * | * | , | * * | * | * | * | * | * | * * |
| Asian Only | 137 | 11.8 | 140 | 12.1 | 140 | 12.0 | 125 | 10.9 | 148 | 12.6 |
| AIAN Only | 45 | 23.3 | 47 | 24.9 | 46 | 24.7 | * | * | * | * * |
| 2 or More Races | 129 | 26.0 | 154 | 31.0 a | 152 | 30.6 | 108 | 22.1 | 149 | 29.7 |

Table K. 1 Past Year Any Mental IIlness (AMI) (Aged 18 or Older) (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (2015+2016) \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent |
| West North Central |  |  |  |  |  |  |  |  |  |  |
| White Only | 2,361 | 16.9 | 2,363 | 16.9 | 2,370 | 17.0 | 2,260 | 16.2 | 2,461 | 17.6 |
| Black Only | 167 | 16.8 | 178 | 17.9 | 174 | 17.6 | 164 | 16.7 | 169 | 16.9 |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * |
| Asian Only | * | * | * | * * | * | * * | * | * | * | * |
| AIAN Only | 42 | 22.3 | * | * * | * | * * | * | * | * | * * |
| 2 or More Races | * | * | * | * * | * | * * | * | * | * | * * |
| South Atlantic |  |  |  |  |  |  |  |  |  |  |
| White Only | 6,836 | 19.4 | 6,803 | 19.3 | 6,819 | 19.3 | 6,692 | 19.1 | 6,980 | 19.7 |
| Black Only | 1,550 | 15.0 | 1,535 | 14.9 | 1,511 | 14.6 | 1,565 | 15.3 | 1,534 | 14.7 |
| NHOPI Only |  | * | * | * * | * | * * | * | * | * | * |
| Asian Only | 252 | 15.0 | 238 | 14.1 | 225 | 13.3 | 256 | 15.4 | 248 | 14.6 |
| AIAN Only | 49 | 15.8 | 51 | 16.4 | 51 | 16.7 | 37 | 11.7 | * | * * |
| 2 or More Races | 165 | 21.5 | 148 | 19.4 | 151 | 19.8 | 164 | 21.4 | 166 | 21.7 |
| East South Central |  |  |  |  |  |  |  |  |  |  |
| White Only | 2,353 | 21.4 | 2,295 | 20.8 a | 2,294 | 20.8 a | 2,410 | 21.9 | 2,296 | 20.8 |
| Black Only | 413 | 14.8 | 415 | 14.9 | 414 | 14.9 | 374 | 13.5 | 451 | 16.1 |
| NHOPI Only |  |  | * | * * |  | * * | * | * | , | , |
| Asian Only | * | * | * | * * | * | * * | * | * | * | * |
| AIAN Only | * | * | * | * * | * | * * | * | * | * | * * |
| 2 or More Races | * | * | * | * * | * | * * | * | * | * | * * |
| West South Central |  |  |  |  |  |  |  |  |  |  |
| White Only | 3,909 | 17.5 | 3,936 | 17.6 | 3,921 | 17.6 | 3,819 | 17.2 | 3,998 | 17.8 |
| Black Only | 533 | 13.4 | 551 | 13.8 | 548 | 13.7 | 569 | 14.4 | 498 | 12.4 |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * * |
| Asian Only | 92 | 8.2 | 92 | 8.2 | 86 | 7.7 | 105 | 9.2 | 79 | 7.2 |
| AIAN Only | 86 | 17.6 | 78 | 16.2 | 100 | 20.5 | 67 | 14.3 | * | * |
| 2 or More Races | 97 | 20.0 | 101 | 20.5 | 121 | 25.0 | 94 | 20.4 | 100 | 19.7 |
| Mountain |  |  |  |  |  |  |  |  |  |  |
| White Only | 3,022 | 19.8 | 3,048 | 20.0 | 3,052 | 20.0 | 3,056 | 20.2 | 2,989 | 19.4 |
| Black Only | 121 | 18.0 | 134 | 20.0 | 134 | 19.9 | 116 | 17.5 | * | * |
| NHOPI Only | * | * | * | * * | , | * | , | . | * | * * |
| Asian Only | 72 | 13.0 | 65 | 11.7 | 63 | 11.3 | * | * | 51 | 9.1 * |
| AIAN Only | 88 | 14.8 | 87 | 14.6 | 88 | 14.8 | 82 | 13.9 | 94 | 15.6 |
| 2 or More Races | 132 | 35.1 | 134 | 35.8 | 125 | 33.4 | * | * | * | * * |

Table K. 1 Past Year Any Mental IIIness (AMI) (Aged 18 or Older) (continued)

| Domains | FE Sample (2015+2016) |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in $1,000 s$ ) | Percent |
| Pacific |  |  |  |  |  |  |  |  |  |  |
| White Only | 5,659 | 19.1 | 5,636 | 19.1 | 5,640 | 19.1 | 5,223 | 17.7 | 6,095 | 20.6 a |
| Black Only | 336 | 15.6 | 329 | 15.2 | 323 | 15.0 | 317 | 14.7 | 356 | 16.4 |
| NHOPI Only | 91 | 16.8 | 90 | 16.6 | 90 | 16.7 | 47 | 12.0 | * | * * |
| Asian Only | 686 | 12.5 | 678 | 12.3 | 676 | 12.3 | 677 | 12.1 | 696 | 12.9 |
| AIAN Only | 118 | 17.5 | 122 | 18.0 | 129 | 19.1 | 116 | 17.7 | 119 | 17.3 |
| 2 or More Races | 375 | 27.2 | 384 | 27.9 | 383 | 27.9 | 403 | 29.6 | 347 | 24.9 |
| County Type by Age Group |  |  |  |  |  |  |  |  |  |  |
| Large Metro |  |  |  |  |  |  |  |  |  |  |
| $12+$ | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- |
| $12-17$ | -- | -- | -- | -- -- | -- | -- - | - |  | 仡 | -- -- |
| 18+ | 23,756 | 17.5 | 24,236 | 17.6 a | 24,512 | 17.6 | 23,474 | 17.3 | 24,038 | 17.6 |
| 18-25 | 4,252 | 22.1 | 4,298 | 22.0 | 4,348 | 22.0 | 4,203 | 21.7 | 4,301 | 22.4 |
| 26-49 | 11,460 | 19.5 | 11,696 | 19.6 a | 11,847 | 19.7 a | 11,339 | 19.4 | 11,580 | 19.6 |
| 50+ | 8,044 | 13.9 | 8,242 | 14.0 | 8,317 | 14.0 | 7,932 | 13.8 | 8,156 | 14.0 |
| Small Metro, pop 250,000-1,000,000 |  |  |  |  |  |  |  |  |  |  |
| $12+$ | -- | -- | -- | -- | -- | -- | -- | -- | -- | - -- |
| 12-17 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- -- |
| 18+ | 9,675 | 19.2 | 9,765 | 19.2 | 9,545 | 19.1 | 9,547 | 18.9 | 9,804 | 19.6 |
| 18-25 | 1,656 | 22.2 | 1,693 | 22.5 a | 1,660 | 22.4 | 1,648 | 21.7 | 1,665 | 22.6 |
| 26-49 | 4,544 | 23.2 | 4,589 | 23.2 | 4,487 | 23.0 | 4,600 | 23.2 | 4,488 | 23.1 |
| 50+ | 3,475 | 15.0 | 3,482 | 14.9 | 3,398 | 14.8 | 3,299 | 14.2 | 3,652 | 15.7 |
| Small Metro, $<250,000$ population |  |  |  |  |  |  |  |  |  |  |
| 12+ | -- | -- | -- | -- -- | -- | -- | -- | -- | -- | -- -- |
| 12-17 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 18+ | 4,275 | 18.3 | 4,203 | 18.2 | 4,205 | 18.3 | 4,286 | 18.3 | 4,263 | 18.2 |
| 18-25 | 763 | 21.3 | 757 | 21.3 | 750 | 21.1 | 768 | 22.0 | 758 | 20.6 |
| 26-49 | 2,007 | 23.6 | 1,971 | 23.5 | 1,967 | 23.6 | 2,070 | 23.9 | 1,944 | 23.3 |
| $50+$ | 1,505 | 13.3 | 1,475 | 13.2 | 1,488 | 13.4 | 1,448 | 12.9 | 1,561 | 13.8 |

(continued)

Table K. 1 Past Year Any Mental IIlness (AMI) (Aged 18 or Older) (continued)

| Domains | FE Sample$(2015+2016)$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent |
| Nonmetro, 20,000 or more urban pop |  |  |  |  |  |  |  |  |  |  |
| $12+$ | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 12-17 | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- |
| 18+ | 2,564 | 18.5 | 2,496 | 18.4 | 2,473 | 18.3 | 2,666 | 19.4 | 2,461 | 17.7 |
| 18-25 | 429 | 21.5 | 418 | 21.4 | 419 | 21.3 | 469 | 22.9 | 389 | 20.1 |
| 26-49 | 1,139 | 22.4 | 1,104 | 22.3 | 1,100 | 22.4 | 1,159 | 23.0 | 1,119 | 21.9 |
| 50+ | 996 | 14.8 | 973 | 14.6 | 955 | 14.4 | 1,039 | 15.7 | 953 | 13.9 |
| Nonmetro, 2,500-19,999 urban pop |  |  |  |  |  |  |  |  |  |  |
| $12+$ | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 12-17 | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 18+ | 3,111 | 18.7 | 2,804 | 18.4 | 2,749 | 18.7 | 2,731 | 17.5 | 3,491 | 19.8 |
| 18-25 | 436 | 21.7 | 411 | 22.0 | 394 | 22.4 | 410 | 21.0 | 461 | 22.3 |
| 26-49 | 1,297 | 23.1 | 1,142 | 22.7 | 1,122 | 23.1 | 1,104 | 21.5 | 1,489 | 24.4 |
| 50+ | 1,379 | 15.3 | 1,251 | 15.0 | 1,232 | 15.2 | 1,216 | 14.3 | 1,541 | 16.2 |
| Nonmetro, <2,500 urban pop |  |  |  |  |  |  |  |  |  |  |
| 12+ | -- | -- | -- | -- | -- | -- -- | -- | -- | -- | -- -- |
| 12-17 | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- |
| 18+ | 655 | 17.3 | 568 | 18.0 | 567 | 18.1 | 717 | 17.1 | 594 | 17.6 |
| 18-25 | 69 | 17.2 | 59 | 18.8 | 59 | 18.9 | 76 | 17.2 | 62 | 17.2 |
| 26-49 | 300 | 22.9 | 250 | 23.7 | 240 | 23.6 | 317 | 21.9 | 282 | 24.2 |
| 50+ | 287 | 13.8 | 259 | 14.5 | 268 | 14.9 | 323 | 14.0 | 250 | 13.5 |
| County Type by Hispanicity |  |  |  |  |  |  |  |  |  |  |
| Large Metro |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 3,863 | 14.7 | 3,916 | 14.8 | 3,924 | 14.7 | 3,767 | 14.3 | 3,959 | 15.1 |
| Not Hispanic/Latino | 19,893 | 18.2 | 20,320 | 18.2 | 20,588 | 18.3 | 19,707 | 18.1 | 20,078 | 18.2 |
| Small Metro, pop 250,000-1,000,000 |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 1,275 | 16.9 | 1,247 | 16.7 | 1,209 | 16.4 | 1,153 | 16.0 | 1,398 | 17.8 |
| Not Hispanic/Latino | 8,400 | 19.6 | 8,518 | 19.7 | 8,336 | 19.6 | 8,394 | 19.3 | 8,406 | 20.0 |
| Small Metro, < 250,000 population |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 318 | 13.5 | 310 | 13.3 | 306 | 13.3 | 250 | 11.0 | 387 | 15.8 |
| Not Hispanic/Latino | 3,956 | 18.8 | 3,893 | 18.7 | 3,899 | 18.8 | 4,036 | 19.1 | 3,876 | 18.5 |
| Nonmetro, 20,000 or more urban pop |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 165 | 15.8 | 163 | 16.4 | 164 | 16.4 | 205 | 18.1 | 124 | 13.0 |
| Not Hispanic/Latino | 2,399 | 18.8 | 2,332 | 18.6 | 2,310 | 18.4 | 2,461 | 19.5 | 2,337 | 18.0 |

Table K. 1 Past Year Any Mental IIlness (AMI) (Aged 18 or Older) (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (2015+2016) \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in $1,000 s$ ) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in 1,000s) | Percent |
| Nonmetro, 2,500-19,999 urban pop |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 132 | 15.6 | 120 | 15.6 | 117 | 15.2 | 95 | 13.3 | 169 | 17.3 |
| Not Hispanic/Latino | 2,979 | 18.9 | 2,684 | 18.6 | 2,632 | 18.9 | 2,636 | 17.7 | 3,322 | 19.9 |
| Nonmetro, $<2,500$ urban pop |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | * | * | * | * * | * | * * | * | * | * | * |
| Not Hispanic/Latino | 632 | 17.2 | 548 | 17.9 | 546 | 18.0 | 685 | 16.9 | 579 | 17.6 |
| County Type by Race |  |  |  |  |  |  |  |  |  |  |
| Large Metro |  |  |  |  |  |  |  |  |  |  |
| White Only | 18,401 | 18.3 | 18,761 | 18.4 | 18,960 | 18.4 | 18,063 | 18.0 | 18,739 | 18.7 |
| Black Only | 3,012 | 15.0 | 3,083 | 15.2 | 3,096 | 15.1 | 3,085 | 15.5 | 2,938 | 14.5 |
| NHOPI Only | 108 | 14.8 | 107 | 14.3 | 104 | 13.9 | 66 | 11.7 | 150 | 16.7 |
| Asian Only | 1,330 | 12.4 | 1,331 | 12.3 | 1,320 | 12.2 | 1,275 | 12.0 | 1,385 | 12.8 |
| AIAN Only | 202 | 15.3 | 211 | 16.0 a | 274 | 19.1 a | 242 | 17.7 | 161 | 12.6 |
| 2 or More Races | 704 | 29.0 | 744 | 29.4 | 758 | 29.3 | 744 | 31.8 | 664 | 26.4 |
| Small Metro, pop 250,000-1,000,000 |  |  |  |  |  |  |  |  |  |  |
| White Only | 8,210 | 19.9 | 8,322 | 20.0 | 8,164 | 20.0 | 8,059 | 19.4 | 8,360 | 20.4 |
| Black Only | 833 | 15.9 | 818 | 15.5 | 782 | 15.0 | 870 | 16.4 | 795 | 15.4 |
| NHOPI Only | 30 | 11.8 | 32 | 12.1 | 31 | 12.1 | 30 | 13.3 | 31 | 10.6 |
| Asian Only | 191 | 10.1 | 182 | 9.6 | 163 | 8.8 | 247 | 12.7 | 136 | 7.4 |
| AIAN Only | 122 | 22.1 | 118 | 20.3 | 118 | 19.2 | 67 | 12.0 | 178 | 32.3 |
| 2 or More Races | 289 | 25.7 | 293 | 25.5 | 287 | 26.3 | 273 | 24.6 | 304 | 26.8 |
| Small Metro, $<250,000$ population |  |  |  |  |  |  |  |  |  |  |
| White Only | 3,687 | 18.5 | 3,683 | 18.6 | 3,697 | 18.7 | 3,656 | 18.5 | 3,718 | 18.5 |
| Black Only | 325 | 15.1 | 296 | 14.1 | 278 | 14.0 | 338 | 14.8 | 312 | 15.4 |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * |
| Asian Only | 92 | 16.1 | 69 | 13.4 | 66 | 12.8 | * | * | 76 | 14.8 |
| AIAN Only | 51 | 20.5 | 54 | 17.9 | 60 | 17.8 | * | * | 39 | 15.6 |
| 2 or More Races | 101 | 26.2 | 86 | 24.5 | 87 | 24.5 | * | * | 91 | 22.3 * |
| Nonmetro, 20,000 or more urban pop |  |  |  |  |  |  |  |  |  |  |
| White Only | 2,271 | 19.1 | 2,200 | 18.9 | 2,181 | 18.8 | 2,365 | 20.0 | 2,177 | 18.3 |
| Black Only | 182 | 15.5 | 181 | 15.2 | 182 | 15.2 | 184 | 17.1 | 181 | 14.1 |
| NHOPI Only | * |  | * | * * | * | * | * | * | * | * |
| Asian Only | 22 | 11.0 | 20 | 10.6 | 19 | 9.2 | 15 | 6.9 | * | * * |
| AIAN Only | 29 | 11.9 | 33 | 12.3 | 27 | 11.2 | 28 | 13.5 | * | * |
| 2 or More Races | 54 | 19.0 | 56 | 23.7 a | * | * | * | * | 36 | 16.8 |

Table K. 1 Past Year Any Mental IIIness (AMI) (Aged 18 or Older) (continued)

| Domains | FE Sample (2015+2016) |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent |
| Nonmetro, 2,500-19,999 urban pop |  |  |  |  |  |  |  |  |  |  |
| White Only | 2,708 | 18.9 | 2,402 | 18.2 a | 2,365 | 18.3 | 2,434 | 18.0 | 2,982 | 19.6 |
| Black Only | 249 | 16.5 | 237 | 17.5 | 227 | 17.1 | 172 | 12.7 | 326 | 19.6 |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * * |
| Asian Only | * | * | * | * * | * | * * | * | * | * | * * |
| AIAN Only | 66 | 21.4 | 49 | 20.2 | * | * * | * | * | * | * * |
| 2 or More Races | 79 | 26.4 | * | * * | * | * * | * | * | * | * * |
| Nonmetro, <2,500 urban pop |  |  |  |  |  |  |  |  |  |  |
| White Only | 595 | 17.9 | 525 | 18.5 | 530 | 18.7 | 651 | 17.6 | 540 | 18.2 |
| Black Only | 25 | 10.3 | * | * * | * | * * | * | * | * | * * |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * * |
| Asian Only | * | * | * | * * | * | * * | * | * | * | * * |
| AIAN Only | 23 | 22.6 | * | * * | * | * * | 15 | 18.0 | 30 | 26.0 |
| 2 or More Races | * | * | * | * * | * | * * | * | * | * | * * |
| College Enrollment by Gender |  |  |  |  |  |  |  |  |  |  |
| Persons Aged 18 to $22^{1}$ |  |  |  |  |  |  |  |  |  |  |
| Male | 1,836 | 16.9 | 1,826 | 16.8 | 1,803 | 16.8 | 1,805 | 16.6 | 1,866 | 17.2 |
| Female | 2,740 | 26.5 | 2,763 | 26.8 a | 2,716 | 26.8 | 2,754 | 26.4 | 2,725 | 26.7 |
| Full-Time College Students |  |  |  |  |  |  |  |  |  |  |
| Male | 622 | 17.0 | 617 | 16.7 | 583 | 16.8 | 656 | 17.5 | 589 | 16.4 |
| Female | 1,045 | 24.5 | 1,050 | 24.5 | 966 | 24.0 | 1,034 | 24.9 | 1,056 | 24.2 |
| Other Persons Aged 18 to $22^{2}$ |  |  |  |  |  |  |  |  |  |  |
| Male | 1,213 | 16.9 | 1,209 | 16.9 | 1,219 | 16.9 | 1,149 | 16.2 | 1,277 | 17.6 |
| Female | 1,695 | 28.0 | 1,713 | 28.4 a | 1,750 | 28.6 a | 1,720 | 27.5 | 1,669 | 28.5 |
| Age Group by Gender |  |  |  |  |  |  |  |  |  |  |
| 12+ |  |  |  |  |  |  |  |  |  |  |
| Male | -- | -- | -- | -- -- | -- | -- -- | -- | - | -- | -- -- |
| Female | -- | -- | -- | -- -- | -- | -- -- | -- | - | -- | -- -- |
| 12-17 |  |  |  |  |  |  |  |  |  |  |
| Male | -- | -- | -- | -- -- | -- | - -- | -- | -- | -- | -- -- |
| Female | -- | -- | -- | -- -- | -- | -- -- | -- | - | -- | -- -- |
| 18+ |  |  |  |  |  |  |  |  |  |  |
| Male | 16,963 | 14.4 | 17,018 | 14.5 | 16,957 | 14.4 | 16,785 | 14.3 | 17,142 | 14.5 |
| Female | 27,073 | 21.5 | 27,053 | 21.4 | 27,095 | 21.5 | 26,636 | 21.2 | 27,510 | 21.7 |

Table K. 1 Past Year Any Mental IIlness (AMI) (Aged 18 or Older) (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (2015+2016) \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in 1,000 s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent |
| 18-25 |  |  |  |  |  |  |  |  |  |  |
| Male | 3,052 | 17.5 | 3,055 | 17.5 | 3,044 | 17.5 | 3,027 | 17.3 | 3,078 | 17.7 |
| Female | 4,553 | 26.3 | 4,581 | 26.5 a | 4,585 | 26.5 | 4,547 | 26.2 | 4,558 | 26.5 |
| 26-49 |  |  |  |  |  |  |  |  |  |  |
| Male | 8,258 | 17.0 | 8,248 | 17.0 | 8,236 | 16.9 | 8,212 | 16.9 | 8,305 | 17.0 |
| Female | 12,488 | 24.8 | 12,505 | 24.9 | 12,527 | 24.9 | 12,377 | 24.7 | 12,598 | 25.0 |
| 50+ |  |  |  |  |  |  |  |  |  |  |
| Male | 5,653 | 11.0 | 5,715 | 11.1 | 5,676 | 11.0 | 5,546 | 10.9 | 5,759 | 11.1 |
| Female | 10,033 | 17.1 | 9,967 | 17.0 | 9,983 | 17.0 | 9,711 | 16.7 | 10,354 | 17.5 |
| Age Group by Race |  |  |  |  |  |  |  |  |  |  |
| 12+ White Only |  | -- | -- |  | -- |  | -- | -- | -- | -- -- |
| Black Only | -- | -- | -- | -- -- | - | -- -- | -- | -- | -- | --- |
| NHOPI Only | -- | -- | -- | -- | -- | -- -- | -- | -- | -- |  |
| Asian Only | -- | -- | -- | -- | -- | -- -- | -- | -- | -- |  |
| AIAN Only | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 2 or More Races | -- | -- | -- | - | -- | - | -- | -- | -- | -- -- |
| 12-17 |  |  |  |  |  |  |  |  |  |  |
| White Only | -- | -- | -- | -- -- | -- | - | -- | -- | -- | -- -- |
| Black Only | -- | -- | -- | -- | -- | - -- | -- | -- | -- | -- -- |
| NHOPI Only | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | - -- |
| Asian Only | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| AIAN Only | -- | -- | -- | -- -- | -- | - | -- | -- | -- | -- -- |
| 2 or More Races | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 18+ |  |  |  |  |  |  |  |  |  |  |
| White Only | 35,872 | 18.8 | 35,892 | 18.8 | 35,896 | 18.8 | 35,229 | 18.5 | 36,516 | 19.1 |
| Black Only | 4,626 | 15.2 | 4,636 | 15.3 | 4,586 | 15.1 | 4,695 | 15.6 | 4,557 | 14.9 |
| NHOPI Only | 165 | 14.6 | 163 | 14.1 | 158 | 13.9 | 110 | 12.2 | 220 | 16.1 |
| Asian Only | 1,642 | 12.2 | 1,608 | 11.9 | 1,581 | 11.7 | 1,650 | 12.1 | 1,634 | 12.2 |
| AIAN Only | 494 | 17.7 | 481 | 17.3 | 529 | 19.1 | 480 | 17.5 | 507 | 18.0 |
| 2 or More Races | 1,237 | 26.8 | 1,292 | 28.0 | 1,301 | 28.2 | 1,257 | 27.7 | 1,218 | 25.9 |

Table K. 1 Past Year Any Mental Illness (AMI) (Aged 18 or Older) (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (\mathbf{2 0 1 5 + 2 0 1 6 )} \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample <br> Excluding GQ, AIAN <br> Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total <br> (Numbers <br> in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent |
| 18-25 |  |  |  |  |  |  |  |  |  |  |
| White Only | 5,977 | 23.4 | 6,000 | 23.5 | 6,016 | 23.5 | 5,945 | 23.1 | 6,009 | 23.6 |
| Black Only | 812 | 15.2 | 810 | 15.2 | 801 | 15.0 | 800 | 14.9 | 825 | 15.6 |
| NHOPI Only | 38 | 16.0 | 38 | 16.1 | 38 | 16.2 | 35 | 13.9 | 42 | 18.2 |
| Asian Only | 416 | 19.6 | 416 | 19.6 | 405 | 19.2 | 416 | 20.2 | 415 | 19.0 |
| AIAN Only | 96 | 18.3 | 105 | 19.8 a | 98 | 18.1 | 87 | 16.9 | 105 | 19.6 |
| 2 or More Races | 266 | 27.6 | 267 | 27.8 | 271 | 27.9 | 291 | 29.1 | 240 | 25.9 |
| 26-49 |  |  |  |  |  |  |  |  |  |  |
| White Only | 16,727 | 22.3 | 16,717 | 22.3 | 16,701 | 22.3 | 16,622 | 22.2 | 16,832 | 22.4 |
| Black Only | 2,206 | 16.7 | 2,222 | 16.8 | 2,208 | 16.7 | 2,191 | 16.7 | 2,221 | 16.7 |
| NHOPI Only | 95 | 18.4 | 93 | 17.9 | 89 | 18.0 | 68 | 15.9 | 121 | 20.2 |
| Asian Only | 895 | 13.0 | 880 | 12.9 | 879 | 12.8 | 880 | 12.7 | 911 | 13.3 |
| AIAN Only | 248 | 18.5 | 254 | 18.7 | 295 | 21.6 a | 256 | 18.9 | 240 | 18.1 |
| 2 or More Races | 575 | 30.2 | 587 | 30.5 | 592 | 31.1 | 573 | 31.2 | 578 | 29.2 |
| 50+ |  |  |  |  |  |  |  |  |  |  |
| White Only | 13,169 | 14.5 | 13,176 | 14.5 | 13,179 | 14.5 | 12,662 | 14.1 | 13,676 | 15.0 |
| Black Only | 1,607 | 13.6 | 1,603 | 13.5 | 1,578 | 13.3 | 1,705 | 14.6 | 1,510 | 12.6 |
| NHOPI Only |  | * | * | * * | * | * | * | * | * | * |
| Asian Only | 330 | 7.4 | 311 | 6.9 | 296 | 6.6 | 353 | 7.6 | 308 | 7.0 |
| AIAN Only | 150 | 16.3 | 122 | 13.7 a | 135 | 15.6 | 137 | 15.7 | 162 | 17.0 |
| 2 or More Races | 396 | 22.6 | 438 | 25.2 | 439 | 25.1 | 393 | 22.9 | 400 | 22.2 |
| Age Group by Hispanicity 12+ |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | -- | -- | -- | -- -- | -- | - | -- | -- | -- | -- |
| Not Hispanic/Latino | -- | -- | -- | -- | -- | -- -- | -- | -- | -- | -- -- |
| 12-17 |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- |
| Not Hispanic/Latino | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 18+ |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 5,777 | 15.1 | 5,776 | 15.1 | 5,741 | 15.0 | 5,502 | 14.5 | 6,053 | 15.7 |
| Not Hispanic/Latino | 38,259 | 18.6 | 38,295 | 18.6 | 38,310 | 18.6 | 37,919 | 18.5 | 38,598 | 18.7 |
| 18-25 |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 1,427 | 19.1 | 1,421 | 19.0 | 1,411 | 18.9 | 1,413 | 18.9 | 1,442 | 19.3 |
| Not Hispanic/Latino | 6,178 | 22.7 | 6,215 | 22.8 a | 6,218 | 22.8 | 6,161 | 22.4 | 6,194 | 22.9 |

Table K. 1 Past Year Any Mental IIlness (AMI) (Aged 18 or Older) (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (\mathbf{2 0 1 5 + 2 0 1 6 )} \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample <br> Excluding GQ, AIAN <br> Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent |
| 26-49 |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 2,909 | 15.0 | 2,905 | 14.9 | 2,881 | 14.8 | 2,844 | 14.7 | 2,975 | 15.2 |
| Not Hispanic/Latino | 17,836 | 22.5 | 17,847 | 22.5 | 17,882 | 22.5 | 17,746 | 22.4 | 17,927 | 22.5 |
| 50+ |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 1,441 | 12.8 | 1,450 | 12.9 | 1,449 | 12.9 | 1,245 | 11.3 | 1,636 | 14.3 |
| Not Hispanic/Latino | 14,245 | 14.4 | 14,232 | 14.4 | 14,210 | 14.4 | 14,012 | 14.3 | 14,477 | 14.6 |
| Pregnancy by Age Group |  |  |  |  |  |  |  |  |  |  |
| Female Aged 18-44 ${ }^{3}$ |  |  |  |  |  |  |  |  |  |  |
| 15-17 | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- |
| 18-25 | 4,534 | 26.3 | 4,562 | 26.5 a | 4,566 | 26.5 | 4,532 | 26.2 | 4,537 | 26.5 |
| 26-44 | 10,150 | 25.5 | 10,165 | 25.6 | 10,213 | 25.7 | 10,010 | 25.4 | 10,290 | 25.7 |
| Pregnant Female Aged 18-44 15-17 | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 18-25 | 140 | 18.7 | 138 | 18.5 | 137 | 18.1 | 165 | 19.9 | 115 | 17.3 |
| 26-44 | 254 | 17.0 | 258 | 17.1 | 260 | 17.2 | 218 | 15.3 | 289 | 18.6 |
| Not Pregnant Female Aged 18-44 |  |  |  |  |  |  |  |  |  |  |
| 15-17 | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | --- -- |
| 18-25 | 4,395 | 26.7 | 4,424 | 26.9 a | 4,428 | 26.9 | 4,367 | 26.5 | 4,423 | 26.9 |
| 26-44 | 9,897 | 25.9 | 9,907 | 25.9 | 9,953 | 26.0 | 9,792 | 25.8 | 10,001 | 25.9 |
| Pregnancy by Race |  |  |  |  |  |  |  |  |  |  |
| Female Aged 18-44 ${ }^{3}$ |  |  |  |  |  |  |  |  |  |  |
| White Only | 11,678 | 27.8 | 11,714 | 27.9 | 11,760 | 28.0 a | 11,585 | 27.7 | 11,771 | 28.0 |
| Black Only | 1,570 | 18.5 | 1,571 | 18.5 | 1,558 | 18.3 | 1,535 | 18.2 | 1,605 | 18.7 |
| NHOPI Only | 79 | 22.2 | 78 | 22.4 | 75 | 22.6 | 75 | 24.5 | * | * * |
| Asian Only | 699 | 17.3 | 682 | 16.9 | 669 | 16.7 | 700 | 17.6 | 699 | 17.0 |
| AIAN Only | 172 | 22.6 | 180 | 23.2 | 205 | 25.3 | 171 | 22.6 | 172 | 22.7 |
| 2 or More Races | 486 | 37.1 | 501 | 37.7 | 510 | 38.2 | 476 | 36.4 | 497 | 37.8 |
| Pregnant Female Aged 18-44 |  |  |  |  |  |  |  |  |  |  |
| White Only | 290 | 17.6 | 293 | 17.7 | 294 | 17.7 | 272 | 16.1 | 308 | 19.0 |
| Black Only | 60 | 17.3 | 59 | 16.7 | 59 | 16.7 | 75 | 20.8 | 44 | 13.4 |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * * |
| Asian Only | * | * | * | * * | * | * * | * | * | * | * * |
| AIAN Only | * | * | * | * * | * | * * | * | * | * | * |
| 2 or More Races | * | * | * |  | * | * * | * | * | * | * * |

(continued)

Table K. 1 Past Year Any Mental IIlness (AMI) (Aged 18 or Older) (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (2015+2016) \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in $1,000 s$ ) | Percent |
| Not Pregnant Female Aged 18-44 |  |  |  |  |  |  |  |  |  |  |
| White Only | 11,388 | 28.2 | 11,421 | 28.3 | 11,466 | 28.5 a | 11,313 | 28.1 | 11,463 | 28.4 |
| Black Only | 1,510 | 18.5 | 1,512 | 18.6 | 1,500 | 18.4 | 1,460 | 18.1 | 1,561 | 18.9 |
| NHOPI Only | 73 | 21.1 | 72 | 21.3 | 69 | 21.6 | 75 | 24.7 | * | * |
| Asian Only | 675 | 17.3 | 660 | 16.9 | 647 | 16.7 | 675 | 17.5 | 676 | 17.1 |
| AIAN Only | 169 | 23.3 | 177 | 23.7 | 202 | 26.1 | 167 | 23.2 | 171 | 23.3 |
| 2 or More Races | 476 | 37.8 | 489 | 38.5 | 498 | 39.1 | 469 | 37.3 | 482 | 38.4 |
| Pregnancy by Hispanicity |  |  |  |  |  |  |  |  |  |  |
| Female Aged 18-44 ${ }^{3}$ |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 2,244 | 19.6 | 2,247 | 19.6 | 2,242 | 19.6 | 2,183 | 19.2 | 2,304 | 20.0 |
| Not Hispanic/Latino | 12,441 | 27.3 | 12,480 | 27.4 | 12,536 | 27.5 a | 12,359 | 27.3 | 12,523 | 27.4 |
| Pregnant Female Aged 18-44 |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 58 | 12.5 | 61 | 12.9 | 62 | 12.8 | 50 | 10.9 | 65 | 14.0 |
| Not Hispanic/Latino | 336 | 18.9 | 335 | 18.8 | 335 | 18.8 | 333 | 18.5 | 339 | 19.3 |
| Not Pregnant Female Aged 18-44 |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 2,186 | 19.9 | 2,186 | 19.9 | 2,180 | 19.9 | 2,133 | 19.5 | 2,239 | 20.3 |
| Not Hispanic/Latino | 12,105 | 27.7 | 12,145 | 27.8 | 12,201 | 27.9 a | 12,026 | 27.7 | 12,184 | 27.7 |

* = low precision; -- = not available; AIAN = American Indian or Alaska Native; FE = field enumeration; GQ = group quarters; NHOPI = Native Hawaiian or Other Pacific Islander; pop = population.
${ }^{1}$ Excludes those with unknown enrollment status.
${ }^{2}$ Other Persons include respondents aged 18 to 22 not enrolled in school, enrolled in college part time, enrolled in other grades either full or part time, or enrolled with no other information available.
${ }^{3}$ Excludes those with unknown pregnancy status.
${ }^{a}$ The difference between this estimate and the person sample estimate is statistically significant at the .05 level.


## Appendix L: 2015-2016 NSDUH - Weighted Annual Averages Past Year Mental Health Service Use (Inpatient, Outpatient, or Prescription Meds; Aged 18 or Older) - AMHTXRC

Table L. 1 Past Year Mental Health Service Use (Inpatient, Outpatient, or Prescription Meds; Aged 18 or Older)

| Domains | FE Sample (2015+2016) |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent |
| Age Group |  |  |  |  |  |  |  |  |  |  |
| 12+ | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 12-17 | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- |
| 18+ | 34,612 | 14.3 | 34,825 | 14.4 a | 34,752 | 14.3 | 34,243 | 14.2 | 34,982 | 14.4 |
| 18-25 | 4,234 | 12.3 | 4,250 | 12.3 | 4,272 | 12.4 | 4,044 | 11.7 | 4,423 | 12.9 a |
| 26-49 | 15,105 | 15.3 | 15,197 | 15.4 a | 15,146 | 15.4 | 15,057 | 15.3 | 15,154 | 15.4 |
| 50+ | 15,273 | 13.9 | 15,378 | 14.0 | 15,334 | 14.0 | 15,142 | 13.9 | 15,404 | 14.0 |
| Gender |  |  |  |  |  |  |  |  |  |  |
| Male | 11,788 | 10.1 | 11,938 | 10.2 a | 11,899 | 10.2 | 11,945 | 10.3 | 11,632 | 9.9 |
| Female | 22,824 | 18.2 | 22,887 | 18.2 | 22,853 | 18.2 | 22,298 | 17.8 | 23,350 | 18.5 |
| Hispanicity |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 3,149 | 8.3 | 3,112 | 8.2 | 3,045 | 8.0 a | 3,055 | 8.1 | 3,242 | 8.5 |
| Not Hispanic/Latino | 31,464 | 15.4 | 31,713 | 15.5 a | 31,707 | 15.5 a | 31,187 | 15.3 | 31,740 | 15.5 |
| Race |  |  |  |  |  |  |  |  |  |  |
| White Only | 30,230 | 15.9 | 30,383 | 16.0 a | 30,388 | 16.0 | 29,790 | 15.7 | 30,670 | 16.1 |
| Black Only | 2,619 | 8.7 | 2,671 | 8.9 | 2,615 | 8.7 | 2,656 | 8.8 | 2,581 | 8.5 |
| NHOPI Only | 63 | 5.7 | 59 | 5.2 | 54 | 4.8 | 51 | 5.7 | 75 | 5.6 |
| Asian Only | 690 | 5.2 | 660 | 4.9 | 633 | 4.7 a | 697 | 5.2 | 682 | 5.1 |
| AIAN Only | 289 | 10.5 | 294 | 10.7 | 303 | 11.0 | 299 | 11.0 | 279 | 10.0 |
| 2 or More Races | 721 | 15.7 | 759 | 16.5 | 760 | 16.5 | 749 | 16.6 | 693 | 14.8 |
| Division |  |  |  |  |  |  |  |  |  |  |
| New England | 2,251 | 19.6 | 2,261 | 19.7 | 2,254 | 19.6 | 2,219 | 19.4 | 2,283 | 19.8 |
| Middle Atlantic | 4,617 | 14.5 | 4,624 | 14.5 | 4,599 | 14.4 | 4,544 | 14.2 | 4,689 | 14.7 |
| East North Central | 5,403 | 15.3 | 5,476 | 15.5 a | 5,468 | 15.5 a | 5,155 | 14.6 | 5,651 | 16.0 |
| West North Central | 2,669 | 16.9 | 2,715 | 17.2 | 2,712 | 17.2 | 2,529 | 16.1 | 2,810 | 17.7 |
| South Atlantic | 6,825 | 14.1 | 6,862 | 14.2 | 6,811 | 14.1 | 6,618 | 13.8 | 7,033 | 14.5 |
| East South Central | 2,022 | 14.3 | 2,021 | 14.3 | 2,032 | 14.4 | 2,108 | 14.9 | 1,935 | 13.7 |
| West South Central | 3,335 | 11.8 | 3,376 | 11.9 | 3,403 | 12.0 | 3,341 | 11.9 | 3,329 | 11.7 |
| Mountain | 2,420 | 13.8 | 2,440 | 13.9 | 2,430 | 13.9 | 2,629 | 15.1 | 2,212 | 12.6 a |
| Pacific | 5,070 | 12.8 | 5,051 | 12.8 | 5,045 | 12.7 | 5,100 | 12.9 | 5,040 | 12.7 |

Table L. 1 Past Year Mental Health Service Use (Inpatient, Outpatient, or Prescription Meds; Aged 18 or Older) (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (2015+2016) \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total <br> (Numbers <br> in $1,000 \mathrm{~s}$ ) | Percent |
| County Type |  |  |  |  |  |  |  |  |  |  |
| Large Metro | 18,718 | 13.9 | 19,190 | 14.0 a | 19,392 | 14.0 a | 18,551 | 13.8 | 18,884 | 13.9 |
| Small Metro, pop 250,000-1,000,000 | 7,652 | 15.3 | 7,723 | 15.3 | 7,472 | 15.1 | 7,728 | 15.3 | 7,576 | 15.2 |
| Small Metro, <250,000 population | 3,510 | 15.1 | 3,469 | 15.1 | 3,480 | 15.2 | 3,482 | 15.0 | 3,539 | 15.2 |
| Nonmetro, 20,000 or more urban pop | 1,941 | 14.1 | 1,927 | 14.3 | 1,931 | 14.3 | 1,977 | 14.5 | 1,905 | 13.7 |
| Nonmetro, 2,500-19,999 urban pop | 2,290 | 13.9 | 2,073 | 13.7 | 2,031 | 13.9 | 1,957 | 12.6 | 2,623 | 14.9 |
| Nonmetro, <2,500 urban pop | 501 | 13.3 | 444 | 14.1 | 447 | 14.3 | 547 | 13.1 | 455 | 13.5 |
| College Enrollment |  |  |  |  |  |  |  |  |  |  |
| Persons Aged 18 to $22^{1}$ | 2,538 | 12.1 | 2,548 | 12.1 | 2,522 | 12.2 | 2,383 | 11.3 | 2,693 | 12.8 |
| Full-Time College Students | 1,001 | 12.7 | 1,007 | 12.7 | 952 | 12.8 | 956 | 12.1 | 1,047 | 13.2 |
| Other Persons Aged 18 to $22^{2}$ | 1,537 | 11.7 | 1,541 | 11.8 | 1,570 | 11.8 | 1,427 | 10.8 | 1,646 | 12.6 |
| Pregnancy |  |  |  |  |  |  |  |  |  |  |
| Female Aged 18-44 ${ }^{3}$ | 10,333 | 18.2 | 10,373 | 18.3 | 10,376 | 18.3 | 10,168 | 18.0 | 10,498 | 18.4 |
| Pregnant Female Aged 18-44 | 254 | 11.4 | 252 | 11.2 | 254 | 11.2 | 226 | 10.1 | 282 | 12.7 |
| Not Pregnant Female Aged 18-44 | 10,079 | 18.5 | 10,120 | 18.6 | 10,122 | 18.6 | 9,941 | 18.3 | 10,216 | 18.7 |
| Division by Age Group |  |  |  |  |  |  |  |  |  |  |
| New England |  |  |  |  |  |  |  |  |  |  |
| 12+ | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 12-17 | -- | -- | -- | -- | -- |  | -- | -- | -- | -- -- |
| 18+ | 2,251 | 19.6 | 2,261 | 19.7 | 2,254 | 19.6 | 2,219 | 19.4 | 2,283 | 19.8 |
| 18-25 | 298 | 18.2 | 296 | 18.0 | 301 | 18.3 | 280 | 17.1 | 316 | 19.2 |
| 26-49 | 934 | 21.2 | 950 | 21.6 a | 944 | 21.4 | 910 | 20.6 | 958 | 21.8 |
| 50+ | 1,019 | 18.7 | 1,015 | 18.6 | 1,009 | 18.5 | 1,029 | 19.0 | 1,009 | 18.4 |
| Middle Atlantic |  |  |  |  |  |  |  |  |  |  |
| 12+ | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 12-17 | -- | -- | -- | -- -- | -- | -- -- | - | -- | -- | -- -- |
| 18+ | 4,617 | 14.5 | 4,624 | 14.5 | 4,599 | 14.4 | 4,544 | 14.2 | 4,689 | 14.7 |
| 18-25 | 537 | 12.2 | 538 | 12.2 | 533 | 12.1 | 527 | 11.9 | 547 | 12.5 |
| 26-49 | 2,016 | 15.8 | 2,019 | 15.8 | 2,000 | 15.7 | 2,022 | 15.8 | 2,010 | 15.8 |
| 50+ | 2,063 | 14.0 | 2,067 | 14.0 | 2,067 | 14.0 | 1,995 | 13.5 | 2,131 | 14.4 |

Table L. 1 Past Year Mental Health Service Use (Inpatient, Outpatient, or Prescription Meds; Aged 18 or Older) (continued)

| Domains | FE Sample$(2015+2016)$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent |
| East North Central |  |  |  |  |  |  |  |  |  |  |
| 12+ | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 12-17 | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- |
| 18+ | 5,403 | 15.3 | 5,476 | 15.5 a | 5,468 | 15.5 a | 5,155 | 14.6 | 5,651 | 16.0 |
| 18-25 | 736 | 14.6 | 743 | 14.7 | 746 | 14.8 | 679 | 13.4 | 794 | 15.8 a |
| 26-49 | 2,314 | 16.6 | 2,336 | 16.8 a | 2,338 | 16.8 a | 2,342 | 16.8 | 2,285 | 16.5 |
| 50+ | 2,353 | 14.3 | 2,396 | 14.6 a | 2,384 | 14.5 | 2,134 | 13.0 | 2,572 | 15.6 |
| West North Central |  |  |  |  |  |  |  |  |  |  |
| 12+ | -- | -- | -- | -- | -- | -- -- | -- | -- | -- | -- -- |
| 12-17 | -- | -- | -- | -- -- | -- | -- | - | -- | -- | -- -- |
| 18+ | 2,669 | 16.9 | 2,715 | 17.2 | 2,712 | 17.2 | 2,529 | 16.1 | 2,810 | 17.7 |
| 18-25 | 331 | 14.3 | 332 | 14.4 | 340 | 14.7 | 304 | 13.1 | 358 | 15.5 |
| 26-49 | 1,129 | 18.2 | 1,125 | 18.2 | 1,122 | 18.1 | 1,042 | 16.8 | 1,216 | 19.6 |
| 50+ | 1,209 | 16.6 | 1,258 | 17.3 | 1,251 | 17.2 | 1,183 | 16.4 | 1,236 | 16.9 |
| South Atlantic |  |  |  |  |  |  |  |  |  |  |
| 12+ | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 12-17 | -- | -- | -- | -- -- | -- | -- | -- | -- | -- | -- -- |
| 18+ | 6,825 | 14.1 | 6,862 | 14.2 | 6,811 | 14.1 | 6,618 | 13.8 | 7,033 | 14.5 |
| 18-25 | 756 | 11.7 | 759 | 11.7 | 767 | 11.8 | 734 | 11.3 | 778 | 12.1 |
| 26-49 | 2,796 | 14.6 | 2,798 | 14.6 | 2,793 | 14.5 | 2,698 | 14.1 | 2,894 | 15.0 |
| 50+ | 3,273 | 14.5 | 3,304 | 14.6 | 3,251 | 14.4 | 3,185 | 14.3 | 3,360 | 14.7 |
| East South Central |  |  |  |  |  |  |  |  |  |  |
| 12+ | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 12-17 | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- |
| 18+ | 2,022 | 14.3 | 2,021 | 14.3 | 2,032 | 14.4 | 2,108 | 14.9 | 1,935 | 13.7 |
| 18-25 | 231 | 11.5 | 227 | 11.3 | 227 | 11.3 | 239 | 11.8 | 224 | 11.2 |
| 26-49 | 998 | 17.8 | 1,010 | 18.0 | 1,018 | 18.2 | 1,043 | 18.6 | 954 | 17.1 |
| 50+ | 792 | 12.1 | 784 | 12.0 | 788 | 12.0 | 827 | 12.6 | 758 | 11.5 |
| West South Central |  |  |  |  |  |  |  |  |  |  |
| 12+ | -- | -- | -- | -- -- | -- | -- | -- | -- | -- | -- |
| 12-17 | -- | -- | -- | -- -- | -- | -- -- | - | -- | -- | -- -- |
| 18+ | 3,335 | 11.8 | 3,376 | 11.9 | 3,403 | 12.0 | 3,341 | 11.9 | 3,329 | 11.7 |
| 18-25 | 411 | 9.6 | 415 | 9.7 | 427 | 9.9 | 387 | 9.0 | 434 | 10.2 |
| 26-49 | 1,590 | 13.0 | 1,607 | 13.1 | 1,595 | 13.0 | 1,576 | 13.0 | 1,604 | 13.0 |
| 50+ | 1,334 | 11.3 | 1,354 | 11.5 | 1,381 | 11.7 | 1,378 | 11.8 | 1,291 | 10.8 |

Table L. 1 Past Year Mental Health Service Use (Inpatient, Outpatient, or Prescription Meds; Aged 18 or Older) (continued)

| Domains | FE Sample (2015+2016) |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent |
| Mountain |  |  |  |  |  |  |  |  |  |  |
| 12+ | -- | -- | -- | 仡 | -- |  | -- | -- | -- | -- -- |
| 12-17 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- -- |
| 18+ | 2,420 | 13.8 | 2,440 | 13.9 | 2,430 | 13.9 | 2,629 | 15.1 | 2,212 | 12.6 a |
| 18-25 | 329 | 12.8 | 333 | 12.9 a | 326 | 12.7 | 291 | 11.3 | 366 | 14.2 a |
| 26-49 | 1,043 | 14.5 | 1,051 | 14.6 | 1,049 | 14.6 | 1,095 | 15.3 | 991 | 13.7 |
| 50+ | 1,049 | 13.6 | 1,056 | 13.7 | 1,054 | 13.7 | 1,242 | 16.2 | 855 | 11.0 a |
| Pacific |  |  |  |  |  |  |  |  |  |  |
| 12+ | -- | -- | -- | - | -- | - | -- | -- | -- | -- -- |
| 12-17 | -- | -- | -- | - - | -- | - | -- | -- | -- | -- -- |
| 18+ | 5,070 | 12.8 | 5,051 | 12.8 | 5,045 | 12.7 | 5,100 | 12.9 | 5,040 | 12.7 |
| 18-25 | 604 | 10.6 | 606 | 10.6 | 607 | 10.6 | 603 | 10.4 | 606 | 10.7 |
| 26-49 | 2,285 | 13.5 | 2,302 | 13.6 | 2,289 | 13.5 | 2,329 | 13.8 | 2,242 | 13.2 |
| 50+ | 2,180 | 12.9 | 2,143 | 12.6 | 2,149 | 12.7 | 2,168 | 12.9 | 2,193 | 12.8 |
| Division by Hispanicity |  |  |  |  |  |  |  |  |  |  |
| New England |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 154 | 14.8 | 153 | 14.7 | 147 | 14.0 | 148 | 14.4 | 161 | 15.2 |
| Not Hispanic/Latino | 2,097 | 20.1 | 2,108 | 20.2 | 2,107 | 20.2 | 2,071 | 19.8 | 2,122 | 20.3 |
| Middle Atlantic |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 503 | 11.3 | 485 | 10.9 | 471 | 10.6 | 453 | 10.2 | 553 | 12.4 |
| Not Hispanic/Latino | 4,113 | 15.0 | 4,139 | 15.1 | 4,128 | 15.0 | 4,091 | 14.9 | 4,136 | 15.1 |
| East North Central |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 229 | 9.1 | 234 | 9.3 | 235 | 9.4 | 208 | 8.4 | 249 | 9.9 |
| Not Hispanic/Latino | 5,174 | 15.8 | 5,241 | 16.0 a | 5,233 | 15.9 a | 4,947 | 15.1 | 5,402 | 16.5 |
| West North Central |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 68 | 8.7 | 63 | 8.0 | 61 | 7.7 | 54 | 7.0 | 82 | 10.4 |
| Not Hispanic/Latino | 2,601 | 17.3 | 2,652 | 17.7 | 2,651 | 17.7 | 2,474 | 16.6 | 2,727 | 18.1 |
| South Atlantic |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 466 | 7.7 | 466 | 7.7 | 440 | 7.3 | 434 | 7.3 | 498 | 8.1 |
| Not Hispanic/Latino | 6,360 | 15.1 | 6,396 | 15.1 | 6,371 | 15.1 | 6,184 | 14.7 | 6,535 | 15.4 |
| East South Central |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 65 | 14.0 | 61 | 13.0 | 63 | 13.5 | * | * | * | * * |
| Not Hispanic/Latino | 1,956 | 14.3 | 1,960 | 14.3 | 1,969 | 14.4 | 2,036 | 14.9 | 1,876 | 13.7 |
| West South Central |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 490 | 6.5 | 508 | 6.7 | 501 | 6.6 | 453 | 6.1 | 527 | 6.9 |
| Not Hispanic/Latino | 2,845 | 13.7 | 2,868 | 13.8 | 2,902 | 14.0 | 2,888 | 14.0 | 2,802 | 13.4 |

Table L. 1 Past Year Mental Health Service Use (Inpatient, Outpatient, or Prescription Meds; Aged 18 or Older) (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (2015+2016) \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \hline \text { Total } \\ \text { (Numbers } \\ \text { in } \mathbf{1 , 0 0 0 s} \text { ) } \\ \hline \end{gathered}$ | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | $\begin{gathered} \hline \text { Total } \\ \text { (Numbers } \\ \text { in } \mathbf{1 , 0 0 0 s} \text { ) } \\ \hline \end{gathered}$ | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent |
| Mountain |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 356 | 9.4 | 351 | 9.2 | 347 | 9.1 | 369 | 9.8 | 344 | 9.0 |
| Not Hispanic/Latino | 2,064 | 15.1 | 2,089 | 15.3 | 2,083 | 15.2 | 2,260 | 16.6 | 1,868 | 13.6 a |
| Pacific |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 817 | 7.3 | 791 | 7.0 | 782 | 6.9 | 864 | 7.7 | 770 | 6.8 |
| Not Hispanic/Latino | 4,253 | 15.0 | 4,260 | 15.0 | 4,263 | 15.1 | 4,236 | 15.0 | 4,271 | 15.0 |
| Division by Race |  |  |  |  |  |  |  |  |  |  |
| New England |  |  |  |  |  |  |  |  |  |  |
| White Only | 2,067 | 20.9 | 2,074 | 20.9 | 2,079 | 21.0 | 2,038 | 20.6 | 2,096 | 21.2 |
| Black Only | 98 | 12.1 | 106 | 13.2 | 102 | 12.6 | 107 | 13.4 | 89 | 10.9 |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * * |
| Asian Only | 37 | 7.1 | 35 | 6.8 | 29 | 5.8 | 28 | 5.5 | * | * |
| AIAN Only | * | * | * | * * | * | * * | * | * | * | * * |
| 2 or More Races | 40 | 20.9 | * | * | * | * * | * | * | * | * |
| Middle Atlantic |  |  |  |  |  |  |  |  |  |  |
| White Only | 4,085 | 16.9 | 4,108 | 16.9 | 4,094 | 16.9 | 3,964 | 16.3 | 4,205 | 17.4 |
| Black Only | 368 | 8.1 | 358 | 7.9 | 348 | 7.6 | 383 | 8.4 | 353 | 7.7 |
| NHOPI Only | * | * | * | * * | * | * | * | * | * | * |
| Asian Only | 54 | 2.4 | 47 | 2.0 | 46 | 2.0 | 70 | 3.0 | 39 | 1.7 |
| AIAN Only | 21 | 9.9 | 23 | 11.1 | 24 | 11.1 | 31 | 14.9 | 11 | 5.0 a |
| 2 or More Races | 79 | 15.7 | 77 | 15.3 | 78 | 15.3 | * | * | 75 | 14.7 * |
| East North Central |  |  |  |  |  |  |  |  |  |  |
| White Only | 4,912 | 16.7 | 4,970 | 16.9 a | 4,963 | 16.9 a | 4,634 | 15.7 | 5,190 | 17.6 a |
| Black Only | 336 | 8.3 | 342 | 8.5 | 343 | 8.5 | 382 | 9.5 | 290 | 7.2 |
| NHOPI Only | * | * | * | * * | * | * | * | * | * | * |
| Asian Only | 48 | 4.2 | 51 | 4.4 | 50 | 4.3 | 35 | 3.1 | 62 | 5.3 |
| AIAN Only | * | * | * | * | 35 | 18.7 * | * | , | * | * * |
| 2 or More Races | 67 | 13.7 | 75 | 15.3 | 75 | 15.2 | 60 | 12.2 | 75 | 15.2 |
| West North Central |  |  |  |  |  |  |  |  |  |  |
| White Only | 2,409 | 17.3 | 2,419 | 17.4 | 2,429 | 17.4 | 2,289 | 16.5 | 2,528 | 18.1 |
| Black Only | 111 | 11.3 | 122 | 12.4 | 119 | 12.1 | 101 | 10.3 | 122 | 12.4 |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * * |
| Asian Only | * | * | * | * * | * | * * | * | * | * | * * |
| AIAN Only | * | * | * | * * | * | * * | * | * | * | * * |
| 2 or More Races | * | * | * | * * | * | * * | * | * | * | * |

Table L. 1 Past Year Mental Health Service Use (Inpatient, Outpatient, or Prescription Meds; Aged 18 or Older) (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (2015+2016) \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0}$ s) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent |
| South Atlantic |  |  |  |  |  |  |  |  |  |  |
| White Only | 5,746 | 16.4 | 5,786 | 16.5 | 5,769 | 16.4 | 5,602 | 16.0 | 5,890 | 16.7 |
| Black Only | 887 | 8.6 | 889 | 8.7 | 864 | 8.4 | 850 | 8.3 | 923 | 8.9 |
| NHOPI Only | 3 | 1.6 | 2 | 1.3 | * | * * | * | * | * | * * |
| Asian Only | 84 | 5.0 | 80 | 4.8 | 67 | 4.0 | 91 | 5.5 | 76 | 4.5 |
| AIAN Only | 10 | 3.4 | 20 | 6.4 | * | * * | 6 | 2.1 | 14 | 4.7 |
| 2 or More Races | 96 | 12.6 | 85 | 11.2 | 89 | 11.6 | 65 | 8.5 | 128 | 16.6 a |
| East South Central |  |  |  |  |  |  |  |  |  |  |
| White Only | 1,776 | 16.2 | 1,779 | 16.2 | 1,785 | 16.3 | 1,878 | 17.2 | 1,673 | 15.3 |
| Black Only | 204 | 7.4 | 203 | 7.3 | 207 | 7.5 | 173 | 6.3 | 235 | 8.5 |
| NHOPI Only | * | * | * | * * | , | * * |  |  |  | * |
| Asian Only | * | * | * | * * | * | * * | * | * | * | * * |
| AIAN Only | * | * | * | * * | * | * * | * | * | * | * |
| 2 or More Races | * | * | * | * * | * | * * | * | * | * | * |
| West South Central |  |  |  |  |  |  |  |  |  |  |
| White Only | 2,828 | 12.7 | 2,848 | 12.8 | 2,880 | 13.0 | 2,837 | 12.8 | 2,818 | 12.6 |
| Black Only | 353 | 8.9 | 372 | 9.4 | 360 | 9.1 | 342 | 8.7 | 364 | 9.1 |
| NHOPI Only | * | * | * | * | * | * * | * | * | * | * |
| Asian Only | 35 | 3.2 | 36 | 3.3 | 33 | 3.0 | 35 | 3.1 | 36 | 3.3 |
| AIAN Only | 45 | 9.2 | 42 | 8.8 | 49 | 10.2 | 40 | 8.6 | 49 | 9.7 |
| 2 or More Races | 62 | 12.8 | 69 | 14.2 a | 74 | 15.4 | 83 | 18.0 | 41 | 8.0 |
| Mountain |  |  |  |  |  |  |  |  |  |  |
| White Only | 2,191 | 14.4 | 2,206 | 14.5 | 2,198 | 14.5 | 2,383 | 15.8 | 2,000 | 13.1 a |
| Black Only | 63 | 9.4 | 76 | 11.4 | 76 | 11.4 | * | * | 42 | 6.3 * |
| NHOPI Only | 3 | 2.8 | 3 | 2.5 | 2 | 2.1 | * | * | * | * |
| Asian Only | * | * | 48 | 8.7 * | 48 | 8.7 * | * | * | * | * * |
| AIAN Only | 50 | 8.5 | 46 | 7.8 | 48 | 8.0 | 49 | 8.2 | 52 | 8.8 |
| 2 or More Races | 56 | 15.0 | 61 | 16.2 | 58 | 15.5 | 60 | 16.6 | 52 | 13.5 |
| Pacific |  |  |  |  |  |  |  |  |  |  |
| White Only | 4,217 | 14.3 | 4,193 | 14.3 | 4,192 | 14.3 | 4,163 | 14.2 | 4,270 | 14.5 |
| Black Only | 199 | 9.3 | 203 | 9.5 | 196 | 9.1 | 234 | 11.0 | 163 | 7.6 |
| NHOPI Only | 31 | 5.7 | 30 | 5.6 | 29 | 5.4 | 28 | 7.2 | 34 | 4.9 |
| Asian Only | 309 | 5.6 | 308 | 5.6 | 307 | 5.6 | 311 | 5.6 | 307 | 5.7 |
| AIAN Only | 64 | 9.6 | 63 | 9.4 | 67 | 10.1 | 68 | 10.4 | 60 | 8.9 |
| 2 or More Races | 251 | 18.3 | 253 | 18.5 | 254 | 18.6 | 296 | 21.8 | 207 | 14.9 |

Table L. 1 Past Year Mental Health Service Use (Inpatient, Outpatient, or Prescription Meds; Aged 18 or Older) (continued)

| Domains | FE Sample (2015+2016) |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in $1,000 s$ ) | Percent |
| County Type by Age Group |  |  |  |  |  |  |  |  |  |  |
| Large Metro |  |  |  |  |  |  |  |  |  |  |
| 12+ | -- | -- | -- |  | -- |  | -- | -- | -- | -- -- |
| 12-17 | -- | -- | -- | -- | -- | - | -- | -- | -- | -- -- |
| 18+ | 18,718 | 13.9 | 19,190 | 14.0 a | 19,392 | 14.0 a | 18,551 | 13.8 | 18,884 | 13.9 |
| 18-25 | 2,248 | 11.7 | 2,286 | 11.8 | 2,327 | 11.9 | 2,135 | 11.1 | 2,361 | 12.4 a |
| 26-49 | 8,480 | 14.5 | 8,706 | 14.7 a | 8,762 | 14.6 | 8,536 | 14.6 | 8,424 | 14.4 |
| 50+ | 7,989 | 13.9 | 8,197 | 14.0 | 8,303 | 14.0 | 7,880 | 13.8 | 8,098 | 14.0 |
| Small Metro, pop 250,000-1,000,000 |  |  |  |  |  |  |  |  |  |  |
| $12+$ | -- | -- | -- |  | -- |  | -- | -- | -- | -- -- |
| 12-17 | -- | -- | -- | - | -- | - | -- | -- | -- | -- -- |
| 18+ | 7,652 | 15.3 | 7,723 | 15.3 | 7,472 | 15.1 | 7,728 | 15.3 | 7,576 | 15.2 |
| 18-25 | 940 | 12.7 | 962 | 12.9 a | 943 | 12.8 | 920 | 12.3 | 959 | 13.1 |
| 26-49 | 3,164 | 16.2 | 3,190 | 16.2 | 3,100 | 16.0 | 3,122 | 15.8 | 3,207 | 16.6 |
| 50+ | 3,548 | 15.3 | 3,570 | 15.3 | 3,429 | 15.0 | 3,686 | 15.9 | 3,410 | 14.8 |
| Small Metro, $<250,000$ population |  |  |  |  |  |  |  |  |  |  |
| $12+$ | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 12-17 | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 18+ | 3,510 | 15.1 | 3,469 | 15.1 | 3,480 | 15.2 | 3,482 | 15.0 | 3,539 | 15.2 |
| 18-25 | 465 | 13.1 | 460 | 13.0 | 463 | 13.1 | 443 | 12.8 | 487 | 13.4 |
| 26-49 | 1,499 | 17.7 | 1,476 | 17.6 | 1,478 | 17.8 | 1,528 | 17.7 | 1,470 | 17.7 |
| 50+ | 1,546 | 13.8 | 1,533 | 13.8 | 1,539 | 13.9 | 1,511 | 13.5 | 1,581 | 14.0 |
| Nonmetro, 20,000 or more urban pop |  |  |  |  |  |  |  |  |  |  |
| 12+ | -- | -- | -- | -- -- | -- | -- | -- | -- | -- | - -- |
| 12-17 | -- | -- | -- | -- -- | -- | -- | -- | -- | -- | -- |
| 18+ | 1,941 | 14.1 | 1,927 | 14.3 | 1,931 | 14.3 | 1,977 | 14.5 | 1,905 | 13.7 |
| 18-25 | 277 | 14.0 | 269 | 13.9 | 274 | 14.1 | 294 | 14.4 | 260 | 13.6 |
| 26-49 | 756 | 14.9 | 749 | 15.2 | 746 | 15.2 | 764 | 15.2 | 748 | 14.7 |
| 50+ | 908 | 13.5 | 910 | 13.7 | 911 | 13.8 | 920 | 13.9 | 896 | 13.1 |
| Nonmetro, 2,500-19,999 urban pop |  |  |  |  |  |  |  |  |  |  |
| 12+ | -- | -- | -- | -- | -- | -- -- | -- | - | -- | --- |
| 12-17 | -- | -- | -- | -- | -- | -- -- | -- | -- | -- | -- |
| 18+ | 2,290 | 13.9 | 2,073 | 13.7 | 2,031 | 13.9 | 1,957 | 12.6 | 2,623 | 14.9 a |
| 18-25 | 262 | 13.1 | 235 | 12.7 | 230 | 13.1 | 221 | 11.4 | 303 | 14.7 a |
| 26-49 | 982 | 17.5 | 886 | 17.7 | 870 | 18.0 | 857 | 16.8 | 1,107 | 18.2 |
| 50+ | 1,046 | 11.7 | 952 | 11.5 | 931 | 11.6 | 879 | 10.4 | 1,213 | 12.9 |

Table L． 1 Past Year Mental Health Service Use（Inpatient，Outpatient，or Prescription Meds；Aged 18 or Older）（continued）

| Domains | FE Sample （2015＋2016） |  | Subsample 1．Sample Excluding Description－ Based Addresses |  | Subsample 2．Sample Excluding GQ，AIAN Tribal Areas，and Description－Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total （Numbers in 1，000s） | Percent | Total （Numbers in $1,000 \mathrm{~s}$ ） | Percent | Total （Numbers in 1，000s） | Percent | Total （Numbers in 1，000s） | Percent | Total （Numbers in $\mathbf{1 , 0 0 0 s}$ ） | Percent |
| Nonmetro，＜2，500 urban pop |  |  |  |  |  |  |  |  |  |  |
| 12＋ | －－ | －－ | －－ | 侕 | －－ | 侕 | －－ | －－ | －－ | －－－－ |
| 12－17 | －－ | －－ | －－ | － | －－ | － | －－ | －－ | －－ | －－－－ |
| 18＋ | 501 | 13.3 | 444 | 14.1 | 447 | 14.3 | 547 | 13.1 | 455 | 13.5 |
| 18－25 | 42 | 10.4 | 37 | 12.0 | 36 | 11.6 | 31 | 7.0 | 52 | 14.5 a |
| 26－49 | 224 | 17.2 | 191 | 18.3 | 190 | 18.8 | 250 | 17.4 | 199 | 17.0 |
| 50＋ | 235 | 11.4 | 215 | 12.1 | 222 | 12.3 | 266 | 11.7 | 205 | 11.1 |
| County Type by Hispanicity |  |  |  |  |  |  |  |  |  |  |
| Large Metro |  |  |  |  |  |  |  |  |  |  |
| Hispanic／Latino | 2，130 | 8.2 | 2，151 | 8.2 | 2，143 | 8.1 | 2，122 | 8.1 | 2，137 | 8.2 |
| Not Hispanic／Latino | 16，588 | 15.2 | 17，039 | 15.4 a | 17，248 | 15.4 a | 16，429 | 15.2 | 16，747 | 15.3 |
| Small Metro，pop 250，000－1，000，000 |  |  |  |  |  |  |  |  |  |  |
| Hispanic／Latino | 605 | 8.1 | 567 | 7.6 | 514 | 7.0 a | 461 | 6.4 | 749 | 9.6 |
| Not Hispanic／Latino | 7，047 | 16.6 | 7，155 | 16.6 | 6，957 | 16.4 | 7，267 | 16.8 | 6，827 | 16.3 |
| Small Metro，$<250,000$ population |  |  |  |  |  |  |  |  |  |  |
| Hispanic／Latino | 214 | 9.1 | 211 | 9.2 | 206 | 9.1 | 279 | 12.4 | 149 | 6.1 a |
| Not Hispanic／Latino | 3，296 | 15.8 | 3，258 | 15.7 | 3，274 | 15.9 | 3，203 | 15.2 | 3，389 | 16.3 |
| Nonmetro，20，000 or more urban pop |  |  |  |  |  |  |  |  |  |  |
| Hispanic／Latino | 88 | 8.4 | 84 | 8.5 | 84 | 8.5 | 104 | 9.2 | 71 | 7.5 |
| Not Hispanic／Latino | 1，854 | 14.6 | 1，843 | 14.7 | 1，846 | 14.8 | 1，874 | 14.9 | 1，834 | 14.2 |
| Nonmetro，2，500－19，999 urban pop |  |  |  |  |  |  |  |  |  |  |
| Hispanic／Latino | 101 | 12.0 | 86 | 11.2 | 85 | 11.0 | 74 | 10.3 | ＊ | ＊＊ |
| Not Hispanic／Latino | 2，189 | 14.0 | 1，987 | 13.8 | 1，946 | 14.0 | 1，883 | 12.8 | 2，495 | 15.0 a |
| Nonmetro，＜2，500 urban pop |  |  | ＊ |  | － |  |  |  |  | ＊＊ |
| Hispanic／Latino | ＊ | ＊ | ＊ | ＊＊ | ＊ | ＊＊ | ＊ | ＊ | ＊ | ＊＊ |
| Not Hispanic／Latino | 490 | 13.4 | 432 | 14.2 | 434 | 14.3 | 531 | 13.2 | 448 | 13.6 |
| County Type by Race |  |  |  |  |  |  |  |  |  |  |
| Large Metro |  |  |  |  |  |  |  |  |  |  |
| White Only | 15，973 | 16.0 | 16，329 | 16.1 a | 16，532 | 16.1 | 15，759 | 15.8 | 16，188 | 16.2 |
| Black Only | 1，693 | 8.5 | 1，770 | 8.8 a | 1，765 | 8.7 | 1，734 | 8.8 | 1，653 | 8.2 |
| NHOPI Only | 46 | 6.4 | 42 | 5.7 | 40 | 5.3 | 39 | 7.0 | 54 | 6.0 |
| Asian Only | 526 | 5.0 | 527 | 4.9 | 517 | 4.8 | 481 | 4.5 | 571 | 5.4 |
| AIAN Only | 114 | 8.7 | 135 | 10.3 | 145 | 10.2 | 127 | 9.3 | 102 | 8.0 |
| 2 or More Races | 365 | 15.1 | 387 | 15.4 | 393 | 15.2 | 412 | 17.7 | 317 | 12.7 |

Table L. 1 Past Year Mental Health Service Use (Inpatient, Outpatient, or Prescription Meds; Aged 18 or Older) (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (2015+2016) \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent |
| Small Metro, pop 250,000-1,000,000 |  |  |  |  |  |  |  |  |  |  |
| White Only | 6,790 | 16.5 | 6,880 | 16.6 | 6,673 | 16.4 | 6,831 | 16.5 | 6,749 | 16.5 |
| Black Only | 509 | 9.8 | 496 | 9.5 | 465 | 9.0 a | 551 | 10.5 | 467 | 9.2 |
| NHOPI Only | 9 | 3.7 | 9 | 3.6 | 8 | 3.3 | 7 | 3.1 | 12 | 4.2 |
| Asian Only | 83 | 4.4 | 81 | 4.3 | 64 | 3.4 | 113 | 5.8 | 54 | 2.9 |
| AIAN Only | 67 | 12.3 | 64 | 11.1 | 72 | 12.0 | 58 | 10.6 | 77 | 14.1 |
| 2 or More Races | 193 | 17.4 | 193 | 17.0 | 189 | 17.5 | 170 | 15.5 | 217 | 19.2 |
| Small Metro, <250,000 population |  |  |  |  |  |  |  |  |  |  |
| White Only | 3,165 | 15.9 | 3,143 | 15.9 | 3,166 | 16.1 | 3,123 | 15.8 | 3,207 | 16.1 |
| Black Only | 190 | 8.9 | 190 | 9.2 | 176 | 9.0 | 170 | 7.5 | 209 | 10.5 |
| NHOPI Only | * | * | * | * | * | * * | * | * | * | * |
| Asian Only | 68 | 11.9 | 42 | 8.2 | 42 | 8.2 | * | * | * | * * |
| AIAN Only | 24 | 9.7 | 30 | 10.0 | 30 | 9.0 | * | * | 13 | 5.3 |
| 2 or More Races | 64 | 16.7 | 64 | 18.4 | 66 | 18.4 | 65 | 18.0 | * | * |
| Nonmetro, 20,000 or more urban pop |  |  |  |  |  |  |  |  |  |  |
| White Only | 1,750 | 14.8 | 1,738 | 15.0 | 1,734 | 15.0 | 1,771 | 15.1 | 1,729 | 14.6 |
| Black Only | 101 | 8.7 | 106 | 9.0 | 108 | 9.2 | 100 | 9.3 | 103 | 8.1 |
| NHOPI Only |  | * |  | * * | * | * * | * | * | * | * |
| Asian Only | 12 | 5.9 | 9 | 5.0 | 9 | 4.3 | 14 | 6.6 | * | * * |
| AIAN Only | 28 | 11.3 | 21 | 7.9 | * | * * | * | * | * | * |
| 2 or More Races | 46 | 16.1 | 48 | 20.3 a | * | * | * | * | 26 | 12.2 |
| Nonmetro, 2,500-19,999 urban pop |  |  |  |  |  |  |  |  |  |  |
| White Only | 2,095 | 14.6 | 1,889 | 14.3 | 1,869 | 14.5 | 1,811 | 13.5 | 2,379 | 15.7 |
| Black Only | 103 | 6.9 | 88 | 6.6 | 78 | 6.0 | 61 | 4.6 | 146 | 8.8 a |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * * |
| Asian Only | * | * | * | * * | * | * * | * | * | * | * * |
| AIAN Only | 38 | 12.5 | 28 | 11.8 | * | * * | * | * | 28 | 8.6 |
| 2 or More Races | 49 | 16.5 | * | * | * | * * | * | * | * | * * |
| Nonmetro, <2,500 urban pop |  |  |  |  |  |  |  |  |  |  |
| White Only | 457 | 13.8 | 405 | 14.3 | 413 | 14.6 | 495 | 13.5 | 419 | 14.1 |
| Black Only | * | * | * | * * | * | * * | * | * | * | * |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * * |
| Asian Only | * | * | * | * * | * | * * | * | * | * | * * |
| AIAN Only | 18 | 18.1 | * | * * | * | * * | * | * | * | * * |
| 2 or More Races | * | * | * | * * | * | * * | * | * | * | * * |

Table L. 1 Past Year Mental Health Service Use (Inpatient, Outpatient, or Prescription Meds; Aged 18 or Older) (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (2015+2016) \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in 1,000 s) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent |
| College Enrollment by Gender |  |  |  |  |  |  |  |  |  |  |
| Persons Aged 18 to $22^{1}$ |  |  |  |  |  |  |  |  |  |  |
| Male | 920 | 8.5 | 921 | 8.6 | 915 | 8.6 | 799 | 7.4 | 1,040 | 9.7 a |
| Female | 1,618 | 15.7 | 1,627 | 15.8 | 1,607 | 15.9 | 1,584 | 15.3 | 1,652 | 16.2 |
| Full-Time College Students |  |  |  |  |  |  |  |  |  |  |
| Male | 325 | 8.9 | 329 | 8.9 | 319 | 9.2 | 298 | 8.0 | 352 | 9.8 |
| Female | 677 | 15.9 | 678 | 15.9 | 634 | 15.8 | 658 | 15.8 | 695 | 15.9 |
| Other Persons Aged 18 to $22^{2}$ |  |  |  |  |  |  |  |  |  |  |
| Male | 595 | 8.4 | 592 | 8.4 | 597 | 8.3 | 501 | 7.1 | 689 | 9.6 a |
| Female | 942 | 15.6 | 949 | 15.8 | 973 | 16.0 a | 926 | 14.9 | 957 | 16.4 |
| Age Group by Gender |  |  |  |  |  |  |  |  |  |  |
| 12+ |  |  |  |  |  |  |  |  |  |  |
| Male | -- | -- | -- | - | -- | -- | -- | -- | -- | -- -- |
| Female | -- | -- | -- | -- -- | -- | -- | -- | -- | -- | -- -- |
| 12-17 |  |  |  |  |  |  |  |  |  |  |
| Male | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| Female | -- | -- | -- | -- | -- | - | -- | -- | -- | -- -- |
| 18+ |  |  |  |  |  |  |  |  |  |  |
| Male | 11,788 | 10.1 | 11,938 | 10.2 a | 11,899 | 10.2 | 11,945 | 10.3 | 11,632 | 9.9 |
| Female | 22,824 | 18.2 | 22,887 | 18.2 | 22,853 | 18.2 | 22,298 | 17.8 | 23,350 | 18.5 |
| 18-25 |  |  |  |  |  |  |  |  |  |  |
| Male | 1,514 | 8.8 | 1,514 | 8.8 | 1,518 | 8.8 | 1,403 | 8.1 | 1,625 | 9.5 a |
| Female | 2,720 | 15.8 | 2,736 | 15.9 | 2,754 | 16.0 | 2,642 | 15.3 | 2,799 | 16.3 |
|  |  |  |  |  |  |  |  |  |  |  |
| Male | 5,187 | 10.7 | 5,244 | 10.8 a | 5,220 | 10.8 | 5,328 | 11.0 | 5,046 | 10.4 |
| Female | 9,919 | 19.8 | 9,953 | 19.9 | 9,926 | 19.8 | 9,729 | 19.5 | 10,108 | 20.2 |
| 50+ |  |  |  |  |  |  |  |  |  |  |
| Male | 5,088 | 9.9 | 5,181 | 10.1 a | 5,161 | 10.1 | 5,214 | 10.2 | 4,962 | 9.6 |
| Female | 10,185 | 17.5 | 10,197 | 17.5 | 10,173 | 17.5 | 9,927 | 17.2 | 10,443 | 17.8 |

Table L. 1 Past Year Mental Health Service Use (Inpatient, Outpatient, or Prescription Meds; Aged 18 or Older) (continued)

| Domains | FE Sample (2015+2016) |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in 1,000s) | Percent |
| Age Group by Race $12+$ |  |  |  |  |  |  |  |  |  |  |
| White Only | -- | -- | -- | -- | -- | -- -- | -- | -- | -- | -- |
| Black Only | -- | -- | -- |  | -- | - | -- | -- | -- | -- -- |
| NHOPI Only | -- | -- | -- | - | -- | - | -- | -- | -- | -- -- |
| Asian Only | -- | -- | -- | -- | -- | -- -- | -- | -- | -- | -- -- |
| AIAN Only | -- | -- | -- | -- | -- |  | -- | -- | -- |  |
| 2 or More Races | -- | -- | -- | -- -- | -- | -- - | -- | -- | -- | -- |
| 12-17 |  |  |  |  |  |  |  |  |  |  |
| White Only | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| Black Only | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- |
| NHOPI Only | -- | -- | -- | -- -- | -- | -- - | -- | -- | -- | -- -- |
| Asian Only | -- | -- | -- | -- -- | -- | -- | -- | -- | -- | -- -- |
| AIAN Only | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- |  |
| 2 or More Races | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- |
| 18+ |  |  |  |  |  |  |  |  |  |  |
| White Only | 30,230 | 15.9 | 30,383 | 16.0 a | 30,388 | 16.0 | 29,790 | 15.7 | 30,670 | 16.1 |
| Black Only | 2,619 | 8.7 | 2,671 | 8.9 | 2,615 | 8.7 | 2,656 | 8.8 | 2,581 | 8.5 |
| NHOPI Only | 63 | 5.7 | 59 | 5.2 | 54 | 4.8 | 51 | 5.7 | 75 | 5.6 |
| Asian Only | 690 | 5.2 | 660 | 4.9 | 633 | 4.7 a | 697 | 5.2 | 682 | 5.1 |
| AIAN Only | 289 | 10.5 | 294 | 10.7 | 303 | 11.0 | 299 | 11.0 | 279 | 10.0 |
| 2 or More Races | 721 | 15.7 | 759 | 16.5 | 760 | 16.5 | 749 | 16.6 | 693 | 14.8 |
| 18-25 |  |  |  |  |  |  |  |  |  |  |
| White Only | 3,570 | 14.1 | 3,583 | 14.1 | 3,589 | 14.1 | 3,388 | 13.3 | 3,751 | 14.9 a |
| Black Only | 351 | 6.6 | 345 | 6.5 | 350 | 6.6 | 344 | 6.4 | 358 | 6.9 |
| NHOPI Only | 17 | 7.2 | 16 | 7.0 | 15 | 6.8 | 19 | 7.7 | 15 | 6.6 |
| Asian Only | 116 | 5.6 | 118 | 5.6 | 108 | 5.2 | 121 | 5.9 | 112 | 5.2 |
| AIAN Only | 46 | 8.9 | 51 | 9.8 a | 59 | 10.9 | 39 | 7.6 | 54 | 10.1 |
| 2 or More Races | 134 | 14.0 | 137 | 14.4 a | 151 | 15.6 a | 135 | 13.6 | 133 | 14.5 |
| 26-49 |  |  |  |  |  |  |  |  |  |  |
| White Only | 13,044 | 17.5 | 13,115 | 17.5 | 13,115 | 17.5 | 12,940 | 17.3 | 13,149 | 17.6 |
| Black Only | 1,210 | 9.2 | 1,224 | 9.3 | 1,188 | 9.1 | 1,268 | 9.7 | 1,151 | 8.7 |
| NHOPI Only | 40 | 7.9 | 36 | 7.0 | 32 | 6.6 | 27 | 6.5 | 53 | 8.8 |
| Asian Only | 343 | 5.0 | 337 | 5.0 | 334 | 4.9 | 323 | 4.7 | 363 | 5.4 |
| AIAN Only | 126 | 9.5 | 134 | 9.9 | 134 | 9.9 | 141 | 10.5 | 112 | 8.5 |
| 2 or More Races | 342 | 18.1 | 351 | 18.4 | 343 | 18.1 | 358 | 19.6 | 327 | 16.6 |

Table L. 1 Past Year Mental Health Service Use (Inpatient, Outpatient, or Prescription Meds; Aged 18 or Older) (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (2015+2016) \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent |
| 50+ |  |  |  |  |  |  |  |  |  |  |
| White Only | 13,616 | 15.1 | 13,686 | 15.2 | 13,684 | 15.2 | 13,462 | 15.0 | 13,770 | 15.2 |
| Black Only | 1,058 | 9.0 | 1,102 | 9.4 | 1,076 | 9.1 | 1,044 | 9.0 | 1,072 | 9.0 |
| NHOPI Only |  | * |  | * * | * | * * | * | * | * | * * |
| Asian Only | 230 | 5.1 | 205 | 4.6 | 191 | 4.2 | 254 | 5.5 | 207 | 4.8 |
| AIAN Only | 116 | 12.9 | 108 | 12.3 | 110 | 12.7 | 119 | 13.7 | 113 | 12.1 |
| 2 or More Races | 245 | 14.1 | 270 | 15.6 | 267 | 15.4 | 257 | 15.1 | 234 | 13.1 |
| Age Group by Hispanicity |  |  |  |  |  |  |  |  |  |  |
| 12+ |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | -- | -- | -- | -- | -- | -- -- | -- | -- | -- | -- |
| Not Hispanic/Latino | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- -- |
| 12-17 |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| Not Hispanic/Latino | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 18+ |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 3,149 | 8.3 | 3,112 | 8.2 | 3,045 | 8.0 a | 3,055 | 8.1 | 3,242 | 8.5 |
| Not Hispanic/Latino | 31,464 | 15.4 | 31,713 | 15.5 a | 31,707 | 15.5 a | 31,187 | 15.3 | 31,740 | 15.5 |
| 18-25 |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 548 | 7.4 | 535 | 7.2 | 526 | 7.1 a | 509 | 6.9 | 586 | 7.9 |
| Not Hispanic/Latino | 3,686 | 13.6 | 3,715 | 13.7 a | 3,746 | 13.8 a | 3,535 | 13.0 | 3,837 | 14.3 a |
| 26-49 |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 1,562 | 8.1 | 1,574 | 8.1 | 1,537 | 7.9 | 1,583 | 8.2 | 1,540 | 7.9 |
| Not Hispanic/Latino | 13,544 | 17.1 | 13,623 | 17.2 a | 13,609 | 17.2 | 13,473 | 17.1 | 13,615 | 17.2 |
| 50+ |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 1,039 | 9.3 | 1,002 | 9.0 | 982 | 8.8 | 962 | 8.8 | 1,116 | 9.8 |
| Not Hispanic/Latino | 14,234 | 14.5 | 14,375 | 14.6 a | 14,352 | 14.6 | 14,179 | 14.5 | 14,288 | 14.4 |
| Pregnancy by Age Group |  |  |  |  |  |  |  |  |  |  |
| Female Aged 18-44 ${ }^{3}$ |  |  |  |  |  |  |  |  |  |  |
| 15-17 | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 18-25 | 2,710 | 15.8 | 2,726 | 15.9 | 2,743 | 16.0 | 2,635 | 15.3 | 2,785 | 16.3 |
| 26-44 | 7,623 | 19.3 | 7,647 | 19.3 | 7,633 | 19.3 | 7,533 | 19.2 | 7,713 | 19.3 |
| Pregnant Female Aged 18-44 |  |  |  |  |  |  |  |  |  |  |
| 15-17 | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- |
| 18-25 | 68 | 9.1 | 65 | 8.8 | 66 | 8.7 | 82 | 9.9 | 54 | 8.2 |
| 26-44 | 186 | 12.5 | 187 | 12.4 | 188 | 12.5 | 144 | 10.2 | 228 | 14.7 |

Table L. 1 Past Year Mental Health Service Use (Inpatient, Outpatient, or Prescription Meds; Aged 18 or Older) (continued)

| Domains | $\begin{array}{r} \text { FE Sample } \\ (2015+2016) \\ \hline \end{array}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | $\begin{gathered} \hline \text { Total } \\ \text { (Numbers } \\ \text { in } \mathbf{1 , 0 0 0 s} \text { ) } \\ \hline \end{gathered}$ | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent |
| Not Pregnant Female Aged 18-44 |  |  |  |  |  |  |  |  |  |  |
| 15-17 | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | - |
| 18-25 | 2,642 | 16.1 | 2,661 | 16.2 | 2,677 | 16.3 | 2,553 | 15.6 | 2,731 | 16.7 |
| 26-44 | 7,437 | 19.5 | 7,460 | 19.6 | 7,445 | 19.6 | 7,389 | 19.5 | 7,485 | 19.5 |
| Pregnancy by Race Female Aged 18-44 ${ }^{3}$ |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| White Only | 8,914 | 21.3 | 8,937 | 21.4 | 8,951 | 21.4 | 8,725 | 20.9 | 9,103 | 21.7 |
| Black Only | 774 | 9.1 | 772 | 9.1 | 771 | 9.1 | 797 | 9.5 | 750 | 8.8 |
| NHOPI Only | 31 | 8.7 | 30 | 8.6 | 27 | 8.3 | 32 | 10.7 | 29 | 7.2 |
| Asian Only | 230 | 5.7 | 226 | 5.6 | 214 | 5.4 | 230 | 5.8 | 230 | 5.6 |
| AIAN Only | 98 | 13.0 | 107 | 13.7 | 110 | 13.6 | 108 | 14.3 | 88 | 11.7 |
| 2 or More Races | 287 | 22.0 | 302 | 22.9 a | 303 | 22.8 | 275 | 21.2 | 299 | 22.9 |
| Pregnant Female Aged 18-44 |  |  |  |  |  |  |  |  |  |  |
| White Only | 218 | 13.2 | 218 | 13.2 | 220 | 13.3 | 204 | 12.2 | 232 | 14.4 |
| Black Only | 26 | 7.4 | 24 | 6.8 | 24 | 6.8 | 16 | 4.4 | 35 | 10.7 |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * * |
| Asian Only | * | * | * | * * | * | * * | * | * | * | * * |
| AIAN Only | * | * | * | * * | * | * * | * | * | * | * * |
| 2 or More Races | * | * | * | * * | * | * * | * | * | * | * * |
| Not Pregnant Female Aged 18-44 |  |  |  |  |  |  |  |  |  |  |
| White Only | 8,696 | 21.6 | 8,719 | 21.7 | 8,730 | 21.7 | 8,521 | 21.3 | 8,870 | 22.0 |
| Black Only | 748 | 9.2 | 747 | 9.2 | 747 | 9.2 | 781 | 9.7 | 715 | 8.7 |
| NHOPI Only | 30 | 8.7 | 29 | 8.7 | 27 | 8.6 | 32 | 10.8 | 28 | 7.2 |
| Asian Only | 224 | 5.8 | 222 | 5.7 | 210 | 5.5 | 227 | 5.9 | 221 | 5.6 |
| AIAN Only | 97 | 13.5 | 106 | 14.2 | 109 | 14.0 | 108 | 14.9 | 87 | 12.0 |
| 2 or More Races | 284 | 22.7 | 298 | 23.5 a | 298 | 23.6 | 273 | 21.7 | 295 | 23.6 |
| Pregnancy by Hispanicity |  |  |  |  |  |  |  |  |  |  |
| Female Aged 18-44 ${ }^{3}$ |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 1,082 | 9.5 | 1,068 | 9.4 | 1,053 | 9.3 | 1,049 | 9.2 | 1,115 | 9.8 |
| Not Hispanic/Latino | 9,251 | 20.4 | 9,305 | 20.5 | 9,323 | 20.6 | 9,118 | 20.2 | 9,383 | 20.6 |
| Pregnant Female Aged 18-44 |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 22 | 4.8 | 25 | 5.2 | 25 | 5.1 | * | * | 24 | 5.2 |
| Not Hispanic/Latino | 232 | 13.1 | 228 | 12.8 | 229 | 12.9 | 206 | 11.5 | 258 | 14.7 |

Table L. 1 Past Year Mental Health Service Use (Inpatient, Outpatient, or Prescription Meds; Aged 18 or Older) (continued)

$*=$ low precision; $--=$ not available; AIAN $=$ American Indian or Alaska Native; FE = field enumeration; GQ = group quarters; NHOPI = Native Hawaiian or Other Pacific Islander; pop = population.
${ }^{1}$ Excludes those with unknown enrollment status.
${ }^{2}$ Other Persons include respondents aged 18 to 22 not enrolled in school, enrolled in college part time, enrolled in other grades either full or part time, or enrolled with no other information available.
${ }^{3}$ Excludes those with unknown pregnancy status.
${ }^{\text {a }}$ The difference between this estimate and the person sample estimate is statistically significant at the .05 level.

## Appendix M: 2015-2016 NSDUH - Weighted Annual Averages Past Year Major Depressive Episode (MDE) in Adults (Aged 18 or Older) AMDEYR2

Table M. 1 Past Year Major Depressive Episode (MDE) in Adults (Aged 18 or Older)

| Domains | $\begin{gathered} \text { FE Sample } \\ (2015+2016) \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent |
| Age Group |  |  |  |  |  |  |  |  |  |  |
| 12+ | -- | -- | -- | -- -- | -- | -- | -- | -- | -- | -- -- |
| 12-17 | -- | -- | -- | -- | -- | -- -- | -- | -- | -- | -- -- |
| 18+ | 16,152 | 6.7 | 16,209 | 6.7 | 16,230 | 6.7 | 16,079 | 6.7 | 16,225 | 6.7 |
| 18-25 | 3,630 | 10.6 | 3,639 | 10.6 | 3,633 | 10.6 | 3,554 | 10.3 | 3,705 | 10.9 |
| 26-49 | 7,282 | 7.4 | 7,327 | 7.5 | 7,367 | 7.5 a | 7,329 | 7.5 | 7,236 | 7.4 |
| 50+ | 5,240 | 4.8 | 5,243 | 4.8 | 5,230 | 4.8 | 5,196 | 4.8 | 5,284 | 4.8 |
| Gender |  |  |  |  |  |  |  |  |  |  |
| Male | 5,550 | 4.8 | 5,616 | 4.8 | 5,601 | 4.8 | 5,461 | 4.7 | 5,639 | 4.8 |
| Female | 10,602 | 8.5 | 10,593 | 8.5 | 10,629 | 8.5 | 10,618 | 8.5 | 10,586 | 8.5 |
| Hispanicity |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 1,969 | 5.2 | 1,973 | 5.2 | 1,963 | 5.2 | 1,801 | 4.8 | 2,137 | 5.6 |
| Not Hispanic/Latino | 14,183 | 7.0 | 14,237 | 7.0 | 14,267 | 7.0 | 14,278 | 7.0 | 14,088 | 6.9 |
| Race |  |  |  |  |  |  |  |  |  |  |
| White Only | 13,383 | 7.1 | 13,399 | 7.1 | 13,385 | 7.1 | 13,306 | 7.0 | 13,461 | 7.1 |
| Black Only | 1,480 | 4.9 | 1,488 | 5.0 | 1,500 | 5.0 | 1,479 | 5.0 | 1,482 | 4.9 |
| NHOPI Only | 68 | 6.1 | 68 | 6.0 | 66 | 5.9 | 42 | 4.8 | 95 | 7.0 |
| Asian Only | 539 | 4.1 | 526 | 4.0 | 502 | 3.8 | 562 | 4.2 | 515 | 3.9 |
| AIAN Only | 179 | 6.5 | 189 | 6.9 | 243 | 8.9 a | 169 | 6.3 | 188 | 6.7 |
| 2 or More Races | 503 | 11.0 | 540 | 11.8 | 533 | 11.6 | 521 | 11.6 | 484 | 10.4 |
| Division |  |  |  |  |  |  |  |  |  |  |
| New England | 852 | 7.4 | 851 | 7.4 | 848 | 7.4 | 867 | 7.6 | 837 | 7.3 |
| Middle Atlantic | 2,076 | 6.5 | 2,072 | 6.5 | 2,074 | 6.5 | 2,048 | 6.5 | 2,103 | 6.6 |
| East North Central | 2,346 | 6.7 | 2,398 | 6.8 a | 2,389 | 6.8 a | 2,340 | 6.7 | 2,352 | 6.7 |
| West North Central | 1,044 | 6.7 | 1,077 | 6.9 | 1,086 | 6.9 a | 1,025 | 6.6 | 1,063 | 6.7 |
| South Atlantic | 3,359 | 7.0 | 3,312 | 6.9 | 3,315 | 6.9 | 3,359 | 7.0 | 3,359 | 6.9 |
| East South Central | 969 | 6.9 | 970 | 6.9 | 973 | 6.9 | 971 | 6.9 | 966 | 6.8 |
| West South Central | 1,708 | 6.1 | 1,732 | 6.1 | 1,748 | 6.2 | 1,827 | 6.5 | 1,588 | 5.6 |
| Mountain | 1,267 | 7.3 | 1,290 | 7.4 a | 1,290 | 7.4 | 1,304 | 7.5 | 1,230 | 7.0 |
| Pacific | 2,532 | 6.4 | 2,507 | 6.4 | 2,506 | 6.4 | 2,338 | 6.0 | 2,726 | 6.9 |

Table M. 1 Past Year Major Depressive Episode (MDE) in Adults (Aged 18 or Older) (continued)

| Domains | $\begin{array}{r} \text { FE Sample } \\ (2015+2016) \\ \hline \end{array}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0}$ s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent |
| County Type |  |  |  |  |  |  |  |  |  |  |
| Large Metro | 8,645 | 6.4 | 8,839 | 6.5 | 8,940 | 6.5 | 8,651 | 6.5 | 8,639 | 6.4 |
| Small Metro, pop 250,000-1,000,000 | 3,569 | 7.2 | 3,589 | 7.1 | 3,509 | 7.1 | 3,403 | 6.8 | 3,735 | 7.6 |
| Small Metro, <250,000 population | 1,602 | 6.9 | 1,575 | 6.9 | 1,585 | 6.9 | 1,607 | 6.9 | 1,597 | 6.9 |
| Nonmetro, 20,000 or more urban pop | 1,004 | 7.3 | 990 | 7.4 | 987 | 7.4 | 1,098 | 8.1 | 911 | 6.6 |
| Nonmetro, 2,500-19,999 urban pop | 1,114 | 6.8 | 1,034 | 6.9 | 1,027 | 7.0 | 1,035 | 6.7 | 1,194 | 6.8 |
| Nonmetro, <2,500 urban pop | 218 | 5.8 | 183 | 5.9 | 183 | 5.9 | 287 | 6.9 | 149 | 4.4 |
| College Enrollment |  |  |  |  |  |  |  |  |  |  |
| Persons Aged 18 to $22^{1}$ | 2,373 | 11.3 | 2,381 | 11.4 | 2,344 | 11.4 | 2,333 | 11.1 | 2,413 | 11.6 |
| Full-Time College Students | 913 | 11.6 | 915 | 11.5 | 850 | 11.4 | 882 | 11.3 | 944 | 11.9 |
| Other Persons Aged 18 to $22^{2}$ | 1,460 | 11.2 | 1,466 | 11.3 | 1,494 | 11.3 | 1,451 | 11.0 | 1,468 | 11.3 |
| Pregnancy |  |  |  |  |  |  |  |  |  |  |
| Female Aged 18-44 ${ }^{3}$ | 6,054 | 10.7 | 6,087 | 10.8 | 6,126 | 10.9 | 6,022 | 10.7 | 6,087 | 10.7 |
| Pregnant Female Aged 18-44 | 147 | 6.6 | 148 | 6.6 | 148 | 6.6 | 149 | 6.7 | 146 | 6.6 |
| Not Pregnant Female Aged 18-44 | 5,907 | 10.9 | 5,939 | 11.0 | 5,978 | 11.0 a | 5,873 | 10.9 | 5,941 | 10.9 |
| Division by Age Group |  |  |  |  |  |  |  |  |  |  |
| New England |  |  |  |  |  |  |  |  |  |  |
| 12+ | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 12-17 | -- | -- | -- | --- -- | -- | -- -- | -- | -- | -- | --- -- |
| 18+ | 852 | 7.4 | 851 | 7.4 | 848 | 7.4 | 867 | 7.6 | 837 | 7.3 |
| 18-25 | 198 | 12.1 | 195 | 11.9 | 197 | 12.0 | 191 | 11.7 | 206 | 12.6 |
| 26-49 | 374 | 8.5 | 381 | 8.7 | 381 | 8.7 | 391 | 8.9 | 358 | 8.2 |
| 50+ | 280 | 5.1 | 274 | 5.0 | 271 | 5.0 | 285 | 5.3 | 274 | 5.0 |
| Middle Atlantic |  |  |  |  |  |  |  |  |  |  |
| 12+ | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 12-17 | -- | -- | -- | -- -- | -- | - | -- | -- | - | -- -- |
| 18+ | 2,076 | 6.5 | 2,072 | 6.5 | 2,074 | 6.5 | 2,048 | 6.5 | 2,103 | 6.6 |
| 18-25 | 458 | 10.5 | 458 | 10.5 | 459 | 10.5 | 453 | 10.3 | 463 | 10.7 |
| 26-49 | 903 | 7.1 | 909 | 7.2 | 910 | 7.2 | 857 | 6.7 | 950 | 7.5 |
| 50+ | 715 | 4.9 | 705 | 4.8 | 705 | 4.8 | 738 | 5.1 | 691 | 4.7 |

(continued)

Table M. 1 Past Year Major Depressive Episode (MDE) in Adults (Aged 18 or Older) (continued)

| Domains | FE Sample (2015+2016) |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in $1,000 \mathrm{~s})$ | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent |
| East North Central |  |  |  |  |  |  |  |  |  |  |
| $12+$ | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 12-17 | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- |
| 18+ | 2,346 | 6.7 | 2,398 | 6.8 a | 2,389 | 6.8 a | 2,340 | 6.7 | 2,352 | 6.7 |
| 18-25 | 574 | 11.4 | 579 | 11.5 | 573 | 11.4 | 562 | 11.1 | 586 | 11.7 |
| 26-49 | 1,009 | 7.3 | 1,012 | 7.3 | 1,012 | 7.3 | 1,011 | 7.3 | 1,007 | 7.3 |
| 50+ | 763 | 4.7 | 806 | 4.9 a | 804 | 4.9 a | 767 | 4.7 | 759 | 4.6 |
| West North Central |  |  |  |  |  |  |  |  |  |  |
| 12+ | -- | -- | -- | -- -- | -- |  | -- | -- | -- | -- |
| 12-17 | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 18+ | 1,044 | 6.7 | 1,077 | 6.9 | 1,086 | 6.9 a | 1,025 | 6.6 | 1,063 | 6.7 |
| 18-25 | 250 | 10.9 | 253 | 11.0 | 253 | 11.0 | 207 | 9.1 | 293 | 12.8 a |
| 26-49 | 461 | 7.5 | 468 | 7.6 | 470 | 7.6 | 467 | 7.6 | 454 | 7.3 |
| 50+ | 333 | 4.6 | 355 | 4.9 | 363 | 5.0 | 350 | 4.9 | 316 | 4.4 |
| South Atlantic |  |  |  |  |  |  |  |  |  |  |
| 12+ | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 12-17 | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 18+ | 3,359 | 7.0 | 3,312 | 6.9 | 3,315 | 6.9 | 3,359 | 7.0 | 3,359 | 6.9 |
| 18-25 | 651 | 10.1 | 653 | 10.1 | 656 | 10.2 | 657 | 10.1 | 646 | 10.1 |
| 26-49 | 1,409 | 7.4 | 1,396 | 7.3 | 1,395 | 7.3 | 1,463 | 7.7 | 1,356 | 7.1 |
| 50+ | 1,298 | 5.8 | 1,263 | 5.6 | 1,264 | 5.6 | 1,239 | 5.6 | 1,357 | 6.0 |
| East South Central |  |  |  |  |  |  |  |  |  |  |
| 12+ | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- |
| 12-17 | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 18+ | 969 | 6.9 | 970 | 6.9 | 973 | 6.9 | 971 | 6.9 | 966 | 6.8 |
| 18-25 | 200 | 10.0 | 195 | 9.8 | 200 | 10.0 | 180 | 9.0 | 220 | 11.1 |
| 26-49 | 473 | 8.5 | 474 | 8.5 | 472 | 8.5 | 434 | 7.8 | 512 | 9.2 |
| 50+ | 296 | 4.5 | 301 | 4.6 | 302 | 4.6 | 357 | 5.5 | 234 | 3.6 |
| West South Central |  |  |  |  |  |  |  |  |  |  |
| 12+ | -- | -- | -- | -- -- | -- | - | -- | -- | -- | -- -- |
| 12-17 | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- |
| 18+ | 1,708 | 6.1 | 1,732 | 6.1 | 1,748 | 6.2 | 1,827 | 6.5 | 1,588 | 5.6 |
| 18-25 | 367 | 8.6 | 374 | 8.8 | 376 | 8.8 | 416 | 9.7 | 317 | 7.5 |
| 26-49 | 840 | 6.9 | 850 | 7.0 | 887 | 7.3 a | 859 | 7.1 | 821 | 6.7 |
| 50+ | 501 | 4.3 | 508 | 4.3 | 485 | 4.1 | 552 | 4.7 | 450 | 3.8 |

Table M. 1 Past Year Major Depressive Episode (MDE) in Adults (Aged 18 or Older) (continued)

| Domains | FE Sample (2015+2016) |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN <br> Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent |
| Mountain |  |  |  |  |  |  |  |  |  |  |
| 12+ | -- | -- | -- |  | -- | 仡 | -- | -- | -- | -- -- |
| 12-17 | -- | -- | -- | -- -- | -- |  | -- | -- | -- | -- -- |
| 18+ | 1,267 | 7.3 | 1,290 | 7.4 a | 1,290 | 7.4 | 1,304 | 7.5 | 1,230 | 7.0 |
| 18-25 | 270 | 10.5 | 275 | 10.7 a | 268 | 10.4 | 245 | 9.6 | 295 | 11.5 |
| 26-49 | 613 | 8.6 | 624 | 8.7 a | 625 | 8.7 a | 644 | 9.0 | 583 | 8.1 |
| 50+ | 383 | 5.0 | 391 | 5.1 | 398 | 5.2 | 415 | 5.5 | 352 | 4.6 |
| Pacific |  |  |  |  |  |  |  |  |  |  |
| 12+ | -- | -- | -- | -- - | -- | -- -- | -- | -- | -- | -- -- |
| 12-17 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- -- |
| 18+ | 2,532 | 6.4 | 2,507 | 6.4 | 2,506 | 6.4 | 2,338 | 6.0 | 2,726 | 6.9 |
| 18-25 | 661 | 11.6 | 655 | 11.5 | 651 | 11.4 | 642 | 11.1 | 679 | 12.1 |
| 26-49 | 1,199 | 7.1 | 1,211 | 7.2 | 1,216 | 7.2 a | 1,203 | 7.2 | 1,196 | 7.1 |
| 50+ | 672 | 4.0 | 640 | 3.8 | 639 | 3.8 | 493 | 3.0 | 851 | 5.0 a |
| Division by Hispanicity |  |  |  |  |  |  |  |  |  |  |
| New England |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 77 | 7.6 | 72 | 7.1 | 72 | 7.0 | 57 | 5.7 | 98 | 9.4 |
| Not Hispanic/Latino | 775 | 7.4 | 779 | 7.5 | 777 | 7.4 | 810 | 7.8 | 740 | 7.1 |
| Middle Atlantic |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 253 | 5.7 | 248 | 5.6 | 250 | 5.6 | 188 | 4.3 | 319 | 7.1 |
| Not Hispanic/Latino | 1,822 | 6.7 | 1,824 | 6.7 | 1,824 | 6.7 | 1,860 | 6.8 | 1,785 | 6.6 |
| East North Central |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 155 | 6.2 | 170 | 6.8 | 169 | 6.8 | 173 | 7.0 | 138 | 5.5 |
| Not Hispanic/Latino | 2,191 | 6.7 | 2,228 | 6.8 | 2,221 | 6.8 | 2,168 | 6.6 | 2,214 | 6.8 |
| West North Central |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 39 | 5.0 | 37 | 4.7 | 33 | 4.2 | 28 | 3.6 | 50 | 6.3 |
| Not Hispanic/Latino | 1,005 | 6.7 | 1,040 | 7.0 | 1,053 | 7.1 a | 996 | 6.7 | 1,013 | 6.8 |
| South Atlantic |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 286 | 4.8 | 289 | 4.8 | 287 | 4.8 | 274 | 4.6 | 298 | 4.9 |
| Not Hispanic/Latino | 3,073 | 7.3 | 3,023 | 7.2 | 3,028 | 7.2 | 3,085 | 7.4 | 3,060 | 7.2 |
| East South Central |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 29 | 6.3 | 24 | 5.3 | 24 | 5.1 | * | * | 14 | 3.2 * |
| Not Hispanic/Latino | 939 | 6.9 | 946 | 6.9 | 950 | 7.0 | 927 | 6.8 | 952 | 7.0 |
| West South Central |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 305 | 4.1 | 321 | 4.3 | 327 | 4.3 | 287 | 3.8 | 322 | 4.3 |
| Not Hispanic/Latino | 1,403 | 6.8 | 1,411 | 6.8 | 1,421 | 6.9 | 1,540 | 7.5 | 1,265 | 6.1 |

Table M. 1 Past Year Major Depressive Episode (MDE) in Adults (Aged 18 or Older) (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (2015+2016) \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \hline \text { Total } \\ \text { (Numbers } \\ \text { in } \mathbf{1 , 0 0 0 s} \text { ) } \\ \hline \end{gathered}$ | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | $\begin{gathered} \hline \text { Total } \\ \text { (Numbers } \\ \text { in } \mathbf{1 , 0 0 0 s} \text { ) } \\ \hline \end{gathered}$ | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent |
| Mountain |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 214 | 5.7 | 228 | 6.1 a | 223 | 5.9 | 198 | 5.3 | 229 | 6.0 |
| Not Hispanic/Latino | 1,053 | 7.7 | 1,062 | 7.8 | 1,067 | 7.8 | 1,106 | 8.2 | 1,001 | 7.3 |
| Pacific |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 610 | 5.5 | 582 | 5.2 | 579 | 5.2 | 552 | 5.0 | 668 | 6.0 |
| Not Hispanic/Latino | 1,922 | 6.8 | 1,925 | 6.8 | 1,928 | 6.9 | 1,786 | 6.4 | 2,058 | 7.3 |
| Division by Race |  |  |  |  |  |  |  |  |  |  |
| New England |  |  |  |  |  |  |  |  |  |  |
| White Only | 741 | 7.5 | 738 | 7.5 | 741 | 7.5 | 762 | 7.7 | 719 | 7.3 |
| Black Only | 58 | 7.2 | 56 | 7.0 | 56 | 7.0 | 54 | 6.8 | 61 | 7.6 |
| NHOPI Only | * | * | * | * | * | * | * | * | * | * * |
| Asian Only | 26 | 5.0 | 26 | 5.1 | 22 | 4.4 | 10 | 2.0 | 43 | 7.9 |
| AIAN Only | * | * | * | * * | * | * * | * | * | * | * |
| 2 or More Races | 22 | 11.5 | * | * * | * | * * | * | * | 7 | 3.7 * |
| Middle Atlantic |  |  |  |  |  |  |  |  |  |  |
| White Only | 1,730 | 7.2 | 1,735 | 7.2 | 1,736 | 7.2 | 1,655 | 6.9 | 1,806 | 7.5 |
| Black Only | 213 | 4.7 | 211 | 4.7 | 213 | 4.7 | 256 | 5.7 | 169 | 3.7 |
| NHOPI Only | 9 | 8.1 | 9 | 7.9 | 9 | 7.8 | * | * | * | * * |
| Asian Only | 70 | 3.1 | 64 | 2.8 | 63 | 2.8 | 78 | 3.4 | 63 | 2.8 |
| AIAN Only | 7 | 3.4 | 7 | 3.4 | 7 | 3.5 | 8 | 3.7 | 7 | 3.2 |
| 2 or More Races | 46 | 9.1 | 45 | 8.9 | 45 | 8.8 | 48 | 9.6 | 44 | 8.5 |
| East North Central |  |  |  |  |  |  |  |  |  |  |
| White Only | 2,036 | 7.0 | 2,064 | 7.0 | 2,061 | 7.0 | 2,011 | 6.9 | 2,062 | 7.1 |
| Black Only | 193 | 4.8 | 198 | 4.9 | 195 | 4.9 | 232 | 5.8 | 154 | 3.8 |
| NHOPI Only | * | * | * | * | * | * | * | * | * | * |
| Asian Only | 41 | 3.6 | 44 | 3.8 | 44 | 3.8 | 26 | 2.3 | 56 | 4.8 |
| AIAN Only | * | * | * | * * | * | * * | * | * | * | * * |
| 2 or More Races | 54 | 11.1 | * | * * | * | * * | 47 | 9.6 | 62 | 12.6 |
| West North Central |  |  |  |  |  |  |  |  |  |  |
| White Only | 901 | 6.5 | 913 | 6.6 | 915 | 6.6 | 870 | 6.3 | 932 | 6.7 |
| Black Only | 62 | 6.3 | 71 | 7.3 | 71 | 7.2 | 54 | 5.5 | 69 | 7.1 |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * |
| Asian Only | 23 | 5.4 | 23 | 5.5 | 22 | 5.2 | 28 | 6.5 | 18 | 4.4 |
| AIAN Only | * | * | * | * * | * | * * | * | * | * | * * |
| 2 or More Races | 34 | 13.8 | * | * | * | * | * | * | 26 | 10.3 * |

Table M. 1 Past Year Major Depressive Episode (MDE) in Adults (Aged 18 or Older) (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (\mathbf{2 0 1 5 + 2 0 1 6 )} \\ \hline \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000 s) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent |
| South Atlantic |  |  |  |  |  |  |  |  |  |  |
| White Only | 2,610 | 7.5 | 2,597 | 7.4 | 2,606 | 7.4 | 2,721 | 7.8 | 2,499 | 7.1 |
| Black Only | 550 | 5.4 | 530 | 5.2 | 535 | 5.3 | 457 | 4.5 | 644 | 6.3 |
| NHOPI Only | * | * | * | * | * | * * | * | * | * | * * |
| Asian Only | 102 | 6.2 | 97 | 5.8 | 84 | 5.0 | 117 | 7.2 | 88 | 5.2 |
| AIAN Only | 10 | 3.4 | 18 | 5.7 | * | * * | 3 | 1.0 | 18 | 5.9 a |
| 2 or More Races | 75 | 10.0 | 62 | 8.2 | 61 | 8.0 | 54 | 7.2 | 97 | 12.8 |
| East South Central |  |  |  |  |  |  |  |  |  |  |
| White Only | 828 | 7.6 | 815 | 7.5 | 812 | 7.5 | 827 | 7.6 | 828 | 7.6 |
| Black Only | 106 | 3.8 | 111 | 4.0 | 118 | 4.3 a | 97 | 3.5 | 114 | 4.2 |
| NHOPI Only | * | * | * | * * |  | * * | * | * | * | * * |
| Asian Only | * | * | * | * * | * | * * | * | * | * | * |
| AIAN Only | * | * | * | * * | * | * * | * | * | * | * * |
| 2 or More Races | * | * | * | * * | * | * * | * | * | * | * * |
| West South Central |  |  |  |  |  |  |  |  |  |  |
| White Only | 1,444 | 6.5 | 1,452 | 6.6 | 1,424 | 6.4 | 1,555 | 7.1 | 1,332 | 6.0 |
| Black Only | 158 | 4.0 | 173 | 4.4 | 179 | 4.5 a | 193 | 4.9 | 123 | 3.1 |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * * |
| Asian Only | 26 | 2.4 | 26 | 2.4 | 30 | 2.7 | 21 | 1.8 | 32 | 2.9 |
| AIAN Only | 42 | 8.6 | 42 | 8.7 | 71 | 14.9 a | 26 | 5.5 | * | * * |
| 2 or More Races | 34 | 7.1 | 35 | 7.2 | 41 | 8.5 | 32 | 7.1 | 36 | 7.2 |
| Mountain |  |  |  |  |  |  |  |  |  |  |
| White Only | 1,100 | 7.3 | 1,117 | 7.4 a | 1,122 | 7.4 a | 1,128 | 7.5 | 1,072 | 7.1 |
| Black Only | 55 | 8.4 | 53 | 8.1 | 51 | 7.8 | 52 | 8.0 | * | * * |
| NHOPI Only | * | * | * | * * | * | * | * | * | * | * * |
| Asian Only | 42 | 7.6 | 37 | 6.8 | 35 | 6.3 | * | * | 23 | 4.2 * |
| AIAN Only | 20 | 3.3 | 23 | 3.9 a | 30 | 5.0 a | 23 | 3.9 | 17 | 2.8 |
| 2 or More Races | 39 | 10.5 | 48 | 13.0 | 41 | 11.0 | 26 | 7.2 | 52 | 13.7 |
| Pacific |  |  |  |  |  |  |  |  |  |  |
| White Only | 1,994 | 6.8 | 1,968 | 6.7 | 1,967 | 6.7 | 1,776 | 6.1 | 2,212 | 7.5 |
| Black Only | 86 | 4.0 | 86 | 4.0 | 84 | 3.9 | 85 | 4.0 | 87 | 4.1 |
| NHOPI Only | 31 | 5.7 | 31 | 5.8 | 31 | 5.9 | 14 | 3.5 | 48 | 6.9 |
| Asian Only | 200 | 3.7 | 199 | 3.7 | 195 | 3.6 | 218 | 3.9 | 182 | 3.5 |
| AIAN Only | 46 | 6.9 | 47 | 7.1 | 53 | 8.1 | 42 | 6.4 | 49 | 7.3 |
| 2 or More Races | 176 | 12.9 | 176 | 12.9 | 176 | 12.9 | 203 | 15.0 | 149 | 10.8 |

Table M. 1 Past Year Major Depressive Episode (MDE) in Adults (Aged 18 or Older) (continued)

| Domains | FE Sample$(2015+2016)$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total <br> (Numbers <br> in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent |
| Large Metro |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| 12+ | -- | -- | -- | - | -- | -- -- | -- | -- | -- | -- -- |
| 12-17 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- -- |
| 18+ | 8,645 | 6.4 | 8,839 | 6.5 | 8,940 | 6.5 | 8,651 | 6.5 | 8,639 | 6.4 |
| 18-25 | 2,005 | 10.5 | 2,027 | 10.5 | 2,041 | 10.5 | 1,949 | 10.2 | 2,061 | 10.9 |
| 26-49 | 3,988 | 6.9 | 4,101 | 6.9 a | 4,183 | 7.0 a | 4,037 | 7.0 | 3,939 | 6.8 |
| 50+ | 2,652 | 4.6 | 2,710 | 4.7 | 2,716 | 4.6 | 2,666 | 4.7 | 2,639 | 4.6 |
| Small Metro, pop 250,000-1,000,000 |  |  |  |  |  |  |  |  |  |  |
| 12+ | -- | -- | -- | 侕 | -- | -- -- | -- | -- | -- | -- -- |
| 12-17 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- -- |
| 18+ | 3,569 | 7.2 | 3,589 | 7.1 | 3,509 | 7.1 | 3,403 | 6.8 | 3,735 | 7.6 |
| 18-25 | 803 | 10.9 | 826 | 11.1 a | 807 | 11.0 | 777 | 10.4 | 830 | 11.4 |
| 26-49 | 1,562 | 8.0 | 1,571 | 8.0 | 1,539 | 8.0 | 1,531 | 7.8 | 1,593 | 8.3 |
| 50+ | 1,203 | 5.2 | 1,192 | 5.1 | 1,163 | 5.1 | 1,095 | 4.8 | 1,312 | 5.7 |
| Small Metro, <250,000 population |  |  |  |  |  |  |  |  |  |  |
| 12+ | -- | -- | -- | - | -- | -- -- | -- | -- | -- | -- |
| 12-17 | -- | -- | -- | -- | -- | -- -- | -- | -- | -- | -- -- |
| 18+ | 1,602 | 6.9 | 1,575 | 6.9 | 1,585 | 6.9 | 1,607 | 6.9 | 1,597 | 6.9 |
| 18-25 | 351 | 9.9 | 345 | 9.8 | 347 | 9.9 | 327 | 9.5 | 374 | 10.3 |
| 26-49 | 743 | 8.8 | 737 | 8.9 | 735 | 8.9 | 813 | 9.5 | 672 | 8.1 |
| 50+ | 508 | 4.5 | 493 | 4.4 | 503 | 4.5 | 466 | 4.2 | 551 | 4.9 |
| Nonmetro, 20,000 or more urban pop |  |  |  |  |  |  |  |  |  |  |
| 12+ | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- -- |
| 12-17 | -- | -- | -- | -- | -- | -- -- | -- | -- | -- | -- -- |
| 18+ | 1,004 | 7.3 | 990 | 7.4 | 987 | 7.4 | 1,098 | 8.1 | 911 | 6.6 |
| 18-25 | 200 | 10.2 | 192 | 10.0 | 194 | 10.1 | 207 | 10.3 | 193 | 10.1 |
| 26-49 | 416 | 8.2 | 413 | 8.4 | 409 | 8.4 | 429 | 8.6 | 402 | 7.9 |
| 50+ | 389 | 5.8 | 385 | 5.9 | 384 | 5.8 | 461 | 7.0 | 316 | 4.7 |
| Nonmetro, 2,500-19,999 urban pop |  |  |  |  |  |  |  |  |  |  |
| 12+ | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 12-17 | -- | -- | -- | -- -- | -- | -- -- | -- | -- | - | -- |
| 18+ | 1,114 | 6.8 | 1,034 | 6.9 | 1,027 | 7.0 | 1,035 | 6.7 | 1,194 | 6.8 |
| 18-25 | 226 | 11.4 | 210 | 11.4 | 203 | 11.7 | 236 | 12.3 | 216 | 10.5 |
| 26-49 | 465 | 8.3 | 417 | 8.4 | 416 | 8.6 | 381 | 7.5 | 548 | 9.0 |
| 50+ | 424 | 4.8 | 407 | 4.9 | 407 | 5.1 | 417 | 5.0 | 430 | 4.6 |

Table M. 1 Past Year Major Depressive Episode (MDE) in Adults (Aged 18 or Older) (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (2015+2016) \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent |
| Nonmetro, <2,500 urban pop |  |  |  |  |  |  |  |  |  |  |
| 12+ | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 12-17 | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 18+ | 218 | 5.8 | 183 | 5.9 | 183 | 5.9 | 287 | 6.9 | 149 | 4.4 |
| 18-25 | 45 | 11.2 | 39 | 12.7 | 40 | 13.2 | 58 | 13.3 | 31 | 8.7 |
| 26-49 | 109 | 8.5 | 88 | 8.4 | 86 | 8.5 | 137 | 9.6 | 81 | 7.0 |
| 50+ | 64 | 3.1 | 56 | 3.2 | 57 | 3.2 | 91 | 4.0 | 37 | 2.0 |
| County Type by Hispanicity |  |  |  |  |  |  |  |  |  |  |
| Large Metro |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 1,294 | 5.0 | 1,334 | 5.1 | 1,340 | 5.1 | 1,257 | 4.8 | 1,332 | 5.2 |
| Not Hispanic/Latino | 7,351 | 6.8 | 7,504 | 6.8 | 7,600 | 6.8 | 7,394 | 6.9 | 7,307 | 6.7 |
| Small Metro, pop 250,000-1,000,000 |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 447 | 6.0 | 416 | 5.6 | 404 | 5.6 | 316 | 4.4 | 577 | 7.4 a |
| Not Hispanic/Latino | 3,122 | 7.4 | 3,173 | 7.4 | 3,105 | 7.4 | 3,087 | 7.2 | 3,158 | 7.6 |
| Small Metro, < 250,000 population |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 115 | 4.9 | 117 | 5.0 | 116 | 5.1 | 96 | 4.2 | 135 | 5.5 |
| Not Hispanic/Latino | 1,487 | 7.1 | 1,459 | 7.1 | 1,469 | 7.1 | 1,511 | 7.2 | 1,462 | 7.1 |
| Nonmetro, 20,000 or more urban pop |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 65 | 6.4 | 63 | 6.5 | 64 | 6.5 | 80 | 7.2 | 51 | 5.4 |
| Not Hispanic/Latino | 939 | 7.4 | 927 | 7.5 | 923 | 7.4 | 1,018 | 8.2 | 860 | 6.7 |
| Nonmetro, 2,500-19,999 urban pop |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 40 | 4.8 | 36 | 4.7 | 32 | 4.2 | 38 | 5.4 | 43 | 4.4 |
| Not Hispanic/Latino | 1,074 | 6.9 | 998 | 7.0 | 994 | 7.2 | 996 | 6.8 | 1,152 | 7.0 |
| Nonmetro, <2,500 urban pop |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | * | * | * | * | * | * | * | * | * | * |
| Not Hispanic/Latino | 211 | 5.8 | 177 | 5.8 | 176 | 5.9 | 273 | 6.8 | 149 | 4.5 |
| County Type by Race |  |  |  |  |  |  |  |  |  |  |
| Large Metro |  |  |  |  |  |  |  |  |  |  |
| White Only | 6,820 | 6.9 | 6,948 | 6.9 | 6,988 | 6.8 | 6,793 | 6.8 | 6,848 | 6.9 |
| Black Only | 996 | 5.0 | 1,040 | 5.2 a | 1,054 | 5.2 a | 1,012 | 5.2 | 980 | 4.9 |
| NHOPI Only | 50 | 6.9 | 49 | 6.6 | 48 | 6.5 | 26 | 4.7 | 74 | 8.2 |
| Asian Only | 419 | 4.0 | 412 | 3.9 | 401 | 3.8 a | 425 | 4.1 | 414 | 3.9 |
| AIAN Only | 79 | 6.0 | 85 | 6.6 a | 139 | 9.9 a | 83 | 6.1 | 75 | 6.0 |
| 2 or More Races | 280 | 11.6 | 304 | 12.1 | 310 | 12.0 | 311 | 13.5 | 248 | 9.9 |

Table M. 1 Past Year Major Depressive Episode (MDE) in Adults (Aged 18 or Older) (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (2015+2016) \\ \hline \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | $\begin{gathered} \hline \text { Total } \\ \text { (Numbers } \\ \text { in } \mathbf{1 , 0 0 0 s} \text { ) } \\ \hline \end{gathered}$ | Percent | Total (Numbers in 1,000s) | Percent | $\begin{gathered} \hline \text { Total } \\ \text { (Numbers } \\ \text { in } \mathbf{1 , 0 0 0 s} \text { ) } \\ \hline \end{gathered}$ | Percent |
| Small Metro, pop 250,000-1,000,000 |  |  |  |  |  |  |  |  |  |  |
| White Only | 3,071 | 7.5 | 3,090 | 7.5 | 3,034 | 7.5 | 2,965 | 7.2 | 3,176 | 7.8 |
| Black Only | 235 | 4.6 | 232 | 4.5 | 232 | 4.5 | 202 | 3.9 | 268 | 5.3 |
| NHOPI Only | 14 | 5.5 | 15 | 5.6 | 14 | 5.6 | 10 | 4.7 | 17 | 6.0 |
| Asian Only | 81 | 4.3 | 79 | 4.2 | 62 | 3.4 | 92 | 4.8 | 70 | 3.9 |
| AIAN Only | 40 | 7.3 | 48 | 8.5 | 44 | 7.2 | 10 | 2.0 | 69 | 12.6 a |
| 2 or More Races | 129 | 11.5 | 124 | 11.0 | 123 | 11.4 | 123 | 11.2 | 134 | 11.9 |
| Small Metro, <250,000 population |  |  |  |  |  |  |  |  |  |  |
| White Only | 1,397 | 7.1 | 1,390 | 7.1 | 1,401 | 7.1 | 1,396 | 7.1 | 1,398 | 7.0 |
| Black Only | 110 | 5.2 | 90 | 4.4 | 87 | 4.5 | 114 | 5.0 | 107 | 5.4 |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * * |
| Asian Only | 30 | 5.3 | 26 | 5.2 | 25 | 5.0 | 35 | 5.7 | 24 | 4.8 |
| AIAN Only | 21 | 8.6 | 26 | 8.8 | 31 | 9.3 | * | * | 15 | 6.0 * |
| 2 or More Races | 40 | 10.6 | 39 | 11.3 | 37 | 10.5 | 29 | 8.1 | 52 | 12.8 |
| Nonmetro, 20,000 or more urban pop |  |  |  |  |  |  |  |  |  |  |
| White Only | 906 | 7.7 | 890 | 7.7 | 885 | 7.7 | 980 | 8.4 | 831 | 7.1 |
| Black Only | 64 | 5.5 | 64 | 5.4 | 66 | 5.6 | 74 | 7.0 | 53 | 4.2 |
| NHOPI Only | * | * | * | * * | * | * * |  | * | * | * * |
| Asian Only | 5 | 2.8 | 6 | 3.0 | 6 | 2.9 | 6 | 2.7 | * | * |
| AIAN Only | 8 | 3.3 | 11 | 4.2 | 11 | 4.5 | 10 | 4.8 | * | * |
| 2 or More Races | 20 | 7.0 | 18 | 7.8 | 18 | 7.8 | 26 | 7.5 | 13 | 6.1 |
| Nonmetro, 2,500-19,999 urban pop |  |  |  |  |  |  |  |  |  |  |
| White Only | 989 | 7.0 | 908 | 6.9 | 904 | 7.1 | 905 | 6.8 | 1,073 | 7.1 |
| Black Only | 70 | 4.7 | 57 | 4.2 | 56 | 4.3 | 68 | 5.1 | 72 | 4.3 |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * * |
| Asian Only | * | * | * | * * | * | * * | * | * | * | * * |
| AIAN Only | 20 | 6.6 | 13 | 5.3 | * | * * | * | * | 13 | 3.9 * |
| 2 or More Races | 32 | 11.1 | * | * | * | * * | * | * | * | * |
| Nonmetro, <2,500 urban pop |  |  |  |  |  |  |  |  |  |  |
| White Only | 201 | 6.1 | 173 | 6.2 |  | 6.2 | 267 | 7.4 | 135 | 4.6 |
| Black Only | 4 | 1.8 | * | * * | * | * * | * | * | * | * * |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * * |
| Asian Only | * | * | * | * * | * | * * | * | * | * | * * |
| AIAN Only | 10 | 10.3 | * | * * | * | * * | * | * | * | * * |
| 2 or More Races | * | * | * | * * | * | * * | * | * | * | * |

Table M. 1 Past Year Major Depressive Episode (MDE) in Adults (Aged 18 or Older) (continued)

| Domains | FE Sample$(2015+2016)$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total <br> (Numbers <br> in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent |
| College Enrollment by Gender |  |  |  |  |  |  |  |  |  |  |
| Persons Aged 18 to $22^{1}$ |  |  |  |  |  |  |  |  |  |  |
| Male | 886 | 8.3 | 883 | 8.2 | 873 | 8.2 | 869 | 8.1 | 903 | 8.4 |
| Female | 1,487 | 14.6 | 1,497 | 14.7 | 1,471 | 14.7 | 1,465 | 14.2 | 1,510 | 14.9 |
| Full-Time College Students |  |  |  |  |  |  |  |  |  |  |
| Male | 301 | 8.3 | 301 | 8.2 | 287 | 8.3 | 313 | 8.4 | 289 | 8.1 |
| Female | 612 | 14.4 | 614 | 14.4 | 563 | 14.1 | 569 | 13.8 | 655 | 15.1 |
| Other Persons Aged 18 to $22^{2}$ |  |  |  |  |  |  |  |  |  |  |
| Male | 585 | 8.2 | 582 | 8.3 | 586 | 8.2 | 556 | 7.9 | 614 | 8.6 |
| Female | 875 | 14.6 | 884 | 14.8 a | 908 | 15.0 a | 895 | 14.5 | 855 | 14.8 |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| Male | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| Female | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 12-17 |  |  |  |  |  |  |  |  |  |  |
| Male | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| Female | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 18+ |  |  |  |  |  |  |  |  |  |  |
| Male | 5,550 | 4.8 | 5,616 | 4.8 | 5,601 | 4.8 | 5,461 | 4.7 | 5,639 | 4.8 |
| Female | 10,602 | 8.5 | 10,593 | 8.5 | 10,629 | 8.5 | 10,618 | 8.5 | 10,586 | 8.5 |
|  |  |  |  |  |  |  |  |  |  |  |
| Male | 1,339 | 7.8 | 1,339 | 7.8 | 1,334 | 7.8 | 1,321 | 7.6 | 1,357 | 7.9 |
| Female | 2,291 | 13.4 | 2,300 | 13.5 | 2,298 | 13.4 | 2,233 | 13.0 | 2,349 | 13.8 |
| 26-49 |  |  |  |  |  |  |  |  |  |  |
| Male | 2,553 | 5.3 | 2,576 | 5.3 | 2,588 | 5.4 | 2,486 | 5.2 | 2,620 | 5.4 |
| Female | 4,729 | 9.5 | 4,751 | 9.6 | 4,779 | 9.6 | 4,843 | 9.7 | 4,616 | 9.3 |
| 50+ |  |  |  |  |  |  |  |  |  |  |
| Male | 1,658 | 3.3 | 1,701 | 3.3 | 1,678 | 3.3 | 1,654 | 3.3 | 1,662 | 3.2 |
| Female | 3,582 | 6.2 | 3,542 | 6.1 | 3,552 | 6.1 | 3,542 | 6.2 | 3,622 | 6.2 |

Table M. 1 Past Year Major Depressive Episode (MDE) in Adults (Aged 18 or Older) (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (2015+2016) \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total <br> (Numbers <br> in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent |
| Age Group by Race |  |  |  |  |  |  |  |  |  |  |
| 12+ |  |  |  |  |  |  |  |  |  |  |
| White Only | -- | -- | -- |  | -- |  | -- | -- | -- | -- -- |
| Black Only | -- | -- | -- | -- | -- | -- -- | -- | -- | -- | -- -- |
| NHOPI Only | -- | -- | -- | -- | -- | -- -- | -- | -- | -- | -- -- |
| Asian Only | -- | -- | -- | -- -- | -- | -- | -- | -- | -- | -- -- |
| AIAN Only | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- -- |
| 2 or More Races | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 12-17 |  |  |  |  |  |  |  |  |  |  |
| White Only | -- | -- | -- |  | -- | -- -- | -- | -- | -- | -- -- |
| Black Only | -- | -- | -- | - | -- | -- -- | -- | -- | -- | -- -- |
| NHOPI Only | -- | -- | -- | -- | -- | -- -- | -- | -- | -- | -- -- |
| Asian Only | -- | -- | -- | -- -- | -- | - | -- | -- | -- | -- -- |
| AIAN Only | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 2 or More Races | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 18+ |  |  |  |  |  |  |  |  |  |  |
| White Only | 13,383 | 7.1 | 13,399 | 7.1 | 13,385 | 7.1 | 13,306 | 7.0 | 13,461 | 7.1 |
| Black Only | 1,480 | 4.9 | 1,488 | 5.0 | 1,500 | 5.0 | 1,479 | 5.0 | 1,482 | 4.9 |
| NHOPI Only | 68 | 6.1 | 68 | 6.0 | 66 | 5.9 | 42 | 4.8 | 95 | 7.0 |
| Asian Only | 539 | 4.1 | 526 | 4.0 | 502 | 3.8 | 562 | 4.2 | 515 | 3.9 |
| AIAN Only | 179 | 6.5 | 189 | 6.9 | 243 | 8.9 a | 169 | 6.3 | 188 | 6.7 |
| 2 or More Races | 503 | 11.0 | 540 | 11.8 | 533 | 11.6 | 521 | 11.6 | 484 | 10.4 |
| 18-25 |  |  |  |  |  |  |  |  |  |  |
| White Only | 2,891 | 11.4 | 2,897 | 11.5 | 2,903 | 11.5 | 2,843 | 11.2 | 2,938 | 11.7 |
| Black Only | 351 | 6.7 | 351 | 6.7 | 352 | 6.7 | 334 | 6.3 | 368 | 7.1 |
| NHOPI Only | 23 | 9.8 | 23 | 10.0 | 23 | 10.1 | 18 | 7.5 | * | * * |
| Asian Only | 193 | 9.2 | 194 | 9.3 | 183 | 8.9 | 185 | 9.1 | 201 | 9.4 |
| AIAN Only | 32 | 6.1 | 33 | 6.3 | 34 | 6.3 | 33 | 6.4 | 31 | 5.8 |
| 2 or More Races | 141 | 14.8 | 141 | 14.9 | 138 | 14.3 | 142 | 14.3 | 140 | 15.3 |
| 26-49 |  |  |  |  |  |  |  |  |  |  |
| White Only | 5,965 | 8.0 | 5,985 | 8.0 | 5,970 | 8.0 | 6,064 | 8.2 | 5,865 | 7.9 |
| Black Only | 723 | 5.5 | 742 | 5.7 a | 751 | 5.8 a | 714 | 5.5 | 733 | 5.6 |
| NHOPI Only | 36 | 7.1 | 36 | 7.1 | 35 | 7.2 | 23 | 5.5 | 49 | 8.1 |
| Asian Only | 246 | 3.6 | 242 | 3.6 | 244 | 3.6 | 212 | 3.1 | 279 | 4.1 |
| AIAN Only | 99 | 7.5 | 105 | 7.9 | 152 | 11.3 a | 112 | 8.5 | 85 | 6.5 |
| 2 or More Races | 214 | 11.4 | 216 | 11.3 | 216 | 11.4 | 203 | 11.2 | 225 | 11.5 |

Table M. 1 Past Year Major Depressive Episode (MDE) in Adults (Aged 18 or Older) (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (\mathbf{2 0 1 5 + 2 0 1 6 )} \\ \hline \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000 s) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in 1,000s) | Percent | Total Numbers in 1,000 s) | Percent |
| 50+ |  |  |  |  |  |  |  |  |  |  |
| White Only | 4,528 | 5.0 | 4,517 | 5.0 | 4,512 | 5.0 | 4,398 | 4.9 | 4,658 | 5.2 |
| Black Only | 406 | 3.5 | 394 | 3.4 | 398 | 3.4 | 431 | 3.7 | 381 | 3.2 |
| NHOPI Only | * | * | * | * * | * | * | * | * | * | * * |
| Asian Only | 100 | 2.3 | 89 | 2.0 | 75 | 1.7 | 165 | 3.6 | 35 | 0.8 |
| AIAN Only | 48 | 5.3 | 50 | 5.7 | 57 | 6.6 | 25 | 2.8 | 72 | 7.5 |
| 2 or More Races | 148 | 8.5 | 183 | 10.6 | 180 | 10.4 | 177 | 10.4 | 119 | 6.7 |
| Age Group by Hispanicity |  |  |  |  |  |  |  |  |  |  |
| 12+ |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | -- | -- | -- | -- -- | -- | -- | -- | - | -- | -- |
| Not Hispanic/Latino | -- | -- | -- | 侕 | -- | - | -- | -- | -- | -- -- |
| 12-17 |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | -- | -- | -- | -- -- | -- | -- | -- | -- | -- | -- |
| Not Hispanic/Latino | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 18+ |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 1,969 | 5.2 | 1,973 | 5.2 | 1,963 | 5.2 | 1,801 | 4.8 | 2,137 | 5.6 |
| Not Hispanic/Latino | 14,183 | 7.0 | 14,237 | 7.0 | 14,267 | 7.0 | 14,278 | 7.0 | 14,088 | 6.9 |
| 18-25 |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 644 | 8.8 | 638 | 8.7 | 627 | 8.5 a | 589 | 8.0 | 700 | 9.5 |
| Not Hispanic/Latino | 2,985 | 11.1 | 3,001 | 11.1 | 3,006 | 11.2 | 2,965 | 10.9 | 3,005 | 11.2 |
| 26-49 |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 834 | 4.3 | 837 | 4.3 | 845 | 4.4 | 865 | 4.5 | 802 | 4.2 |
| Not Hispanic/Latino | 6,449 | 8.2 | 6,490 | 8.2 | 6,522 | 8.3 | 6,464 | 8.2 | 6,434 | 8.2 |
| 50+ |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 491 | 4.4 | 497 | 4.5 | 491 | 4.4 | 347 | 3.2 | 635 | 5.6 |
| Not Hispanic/Latino | 4,749 | 4.9 | 4,746 | 4.9 | 4,739 | 4.8 | 4,849 | 5.0 | 4,649 | 4.7 |
| Pregnancy by Age Group |  |  |  |  |  |  |  |  |  |  |
| Female Aged 18-44 ${ }^{3}$ |  |  |  |  |  |  |  |  |  |  |
| 15-17 | -- | -- | -- | -- -- | -- | -- | - | -- | -- | -- |
| 18-25 | 2,279 | 13.4 | 2,288 | 13.4 | 2,286 | 13.4 | 2,218 | 12.9 | 2,339 | 13.8 |
| 26-44 | 3,775 | 9.6 | 3,799 | 9.6 | 3,840 | 9.8 a | 3,803 | 9.7 | 3,747 | 9.4 |
| Pregnant Female Aged 18-44 |  |  |  |  |  |  |  |  |  |  |
| 15-17 | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 18-25 | 59 | 8.1 | 59 | 8.0 | 59 | 7.8 | 72 | 8.8 | 47 | 7.2 |
| 26-44 | 88 | 5.9 | 88 | 5.9 | 89 | 5.9 | 77 | 5.4 | 99 | 6.4 |

Table M. 1 Past Year Major Depressive Episode (MDE) in Adults (Aged 18 or Older) (continued)

| Domains | FE Sample (2015+2016) |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent |
| Not Pregnant Female Aged 18-44 |  |  |  |  |  |  |  |  |  |  |
| 15-17 | -- | -- | -- | 仡 | -- |  | -- | -- | -- | -- -- |
| 18-25 | 2,219 | 13.6 | 2,229 | 13.7 | 2,227 | 13.7 | 2,147 | 13.2 | 2,292 | 14.1 |
| 26-44 | 3,687 | 9.7 | 3,711 | 9.8 | 3,751 | 9.9 a | 3,726 | 9.9 | 3,649 | 9.6 |
| Pregnancy by Race |  |  |  |  |  |  |  |  |  |  |
| Female Aged 18-44 ${ }^{3}$ |  |  |  |  |  |  |  |  |  |  |
| White Only | 4,849 | 11.7 | 4,868 | 11.7 | 4,893 | 11.8 | 4,873 | 11.7 | 4,826 | 11.6 |
| Black Only | 637 | 7.6 | 643 | 7.6 | 649 | 7.7 | 624 | 7.5 | 650 | 7.7 |
| NHOPI Only | 34 | 9.8 | 34 | 10.0 | 33 | 10.1 | 29 | 9.9 | * | * * |
| Asian Only | 252 | 6.3 | 249 | 6.3 | 238 | 6.0 | 223 | 5.7 | 282 | 6.9 |
| AIAN Only | 70 | 9.4 | 75 | 9.8 | 100 | 12.6 | 82 | 11.2 | 58 | 7.7 |
| 2 or More Races | 211 | 16.3 | 217 | 16.5 | 212 | 16.1 | 190 | 14.7 | 232 | 17.8 |
| Pregnant Female Aged 18-44 |  |  |  |  |  |  |  |  |  |  |
| White Only | 118 | 7.2 | 117 | 7.2 | 118 | 7.2 | 126 | 7.6 | 109 | 6.8 |
| Black Only | 18 | 5.1 | 17 | 4.7 | 17 | 4.9 | 17 | 4.8 | 18 | 5.6 |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * * |
| Asian Only | * | * | * | * * | * | * * | * | * | * | * * |
| AIAN Only | * | * | * | * * | * | * * | * | * | * | * * |
| 2 or More Races | * | * | * | * * | * | * * | * | * | * | * * |
| Not Pregnant Female Aged 18-44 |  |  |  |  |  |  |  |  |  |  |
| White Only | 4,732 | 11.8 | 4,751 | 11.9 | 4,775 | 12.0 | 4,747 | 11.9 | 4,717 | 11.8 |
| Black Only | 619 | 7.7 | 626 | 7.8 | 631 | 7.8 | 607 | 7.6 | 632 | 7.7 |
| NHOPI Only | 29 | 8.4 | 29 | 8.6 | 28 | 8.9 | 29 | 10.0 | 28 | 7.3 |
| Asian Only | 252 | 6.6 | 249 | 6.5 | 238 | 6.3 | 223 | 5.9 | 282 | 7.2 |
| AIAN Only | 69 | 9.7 | 74 | 10.1 | 100 | 13.0 | 81 | 11.6 | 58 | 7.9 |
| 2 or More Races | 205 | 16.5 | 211 | 16.8 | 206 | 16.3 | 186 | 15.0 | 225 | 18.1 |
| Pregnancy by Hispanicity |  |  |  |  |  |  |  |  |  |  |
| Female Aged 18-44 ${ }^{3}$ |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 885 | 7.8 | 882 | 7.8 | 875 | 7.7 | 834 | 7.4 | 936 | 8.2 |
| Not Hispanic/Latino | 5,169 | 11.5 | 5,205 | 11.5 | 5,250 | 11.6 a | 5,188 | 11.6 | 5,151 | 11.4 |
| Pregnant Female Aged 18-44 |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 21 | 4.7 | 24 | 5.1 | 24 | 5.0 | 24 | 5.4 | 18 | 4.0 |
| Not Hispanic/Latino | 126 | 7.2 | 124 | 7.0 | 124 | 7.0 | 124 | 7.0 | 127 | 7.3 |

Table M. 1 Past Year Major Depressive Episode (MDE) in Adults (Aged 18 or Older) (continued)

| Domains | FE Sample (2015+2016) |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in 1,000s) | Percent |
| Not Pregnant Female Aged 18-44 Hispanic/Latino Not Hispanic/Latino | $\begin{array}{r} 864 \\ 5,043 \end{array}$ | $\begin{array}{r} 7.9 \\ 11.6 \end{array}$ | 859 5,081 | $\begin{array}{r} 7.9 \\ 11.7 \end{array}$ | 851 5,126 | $\begin{array}{rr} 7.8 & \\ 11.8 & \text { a } \end{array}$ | 810 5,063 | 7.5 11.8 | 918 5,023 | $\begin{array}{r} 8.4 \\ 11.5 \end{array}$ |

* = low precision; -- = not available; AIAN = American Indian or Alaska Native; FE = field enumeration; GQ = group quarters; NHOPI = Native Hawaiian or Other Pacific Islander; pop = population.
${ }^{1}$ Excludes those with unknown enrollment status.
${ }^{2}$ Other Persons include respondents aged 18 to 22 not enrolled in school, enrolled in college part time, enrolled in other grades either full or part time, or enrolled with no other information available.
${ }^{3}$ Excludes those with unknown pregnancy status.
${ }^{\text {a }}$ The difference between this estimate and the person sample estimate is statistically significant at the .05 level.


## Appendix N: 2015-2016 NSDUH - Weighted Annual Averages Past Month Pain Reliever Use - PNRNMMON

Table N. 1 Past Month Pain Reliever Use

| Domains | $\begin{gathered} \text { FE Sample } \\ (2015+2016) \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in $1,000 s$ ) | Percent | Total (Numbers in 1,000s) | Percent |
| Age Group |  |  |  |  |  |  |  |  |  |  |
| 12+ | 3,562 | 1.3 | 3,528 | 1.3 | 3,511 | 1.3 | 3,775 | 1.4 | 3,350 | 1.2 |
| 12-17 | 258 | 1.0 | 259 | 1.0 | 255 | 1.0 | 276 | 1.1 | 239 | 1.0 |
| 18+ | 3,305 | 1.4 | 3,269 | 1.3 | 3,256 | 1.3 | 3,499 | 1.4 | 3,111 | 1.3 |
| 18-25 | 730 | 2.1 | 733 | 2.1 | 739 | 2.1 | 829 | 2.4 | 631 | 1.8 a |
| 26-49 | 1,716 | 1.7 | 1,674 | 1.7 a | 1,664 | 1.7 a | 1,846 | 1.9 | 1,585 | 1.6 |
| 50+ | 859 | 0.8 | 862 | 0.8 | 853 | 0.8 | 824 | 0.8 | 895 | 0.8 |
| Gender |  |  |  |  |  |  |  |  |  |  |
| Male | 1,901 | 1.5 | 1,860 | 1.4 | 1,852 | 1.4 | 2,110 | 1.6 | 1,692 | 1.3 a |
| Female | 1,662 | 1.2 | 1,668 | 1.2 | 1,660 | 1.2 | 1,665 | 1.2 | 1,658 | 1.2 |
| Hispanicity |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 596 | 1.4 | 602 | 1.4 | 589 | 1.3 | 688 | 1.6 | 503 | 1.1 a |
| Not Hispanic/Latino | 2,967 | 1.3 | 2,926 | 1.3 | 2,923 | 1.3 | 3,087 | 1.4 | 2,847 | 1.3 |
| Race |  |  |  |  |  |  |  |  |  |  |
| White Only | 2,928 | 1.4 | 2,906 | 1.4 | 2,895 | 1.4 | 3,060 | 1.5 | 2,795 | 1.3 |
| Black Only | 431 | 1.3 | 438 | 1.3 | 437 | 1.3 | 462 | 1.4 | 400 | 1.2 |
| NHOPI Only | 12 | 0.9 | 12 | 0.9 | 13 | 1.0 | 12 | 1.1 | 12 | 0.8 |
| Asian Only | 34 | 0.2 | 30 | 0.2 | 30 | 0.2 | 57 | 0.4 | 12 | 0.1 |
| AIAN Only | 35 | 1.1 | 34 | 1.1 | 31 | 1.0 | 36 | 1.1 | 35 | 1.1 |
| 2 or More Races | 122 | 2.2 | 107 | 1.9 | 105 | 1.9 | 149 | 2.7 | 96 | 1.7 |
| Division |  |  |  |  |  |  |  |  |  |  |
| New England | 162 | 1.3 | 169 | 1.3 a | 167 | 1.3 a | 157 | 1.2 | 167 | 1.3 |
| Middle Atlantic | 419 | 1.2 | 426 | 1.2 | 429 | 1.2 a | 448 | 1.3 | 389 | 1.1 |
| East North Central | 548 | 1.4 | 554 | 1.4 | 556 | 1.4 | 608 | 1.6 | 489 | 1.2 |
| West North Central | 182 | 1.0 | 167 | 1.0 | 169 | 1.0 | 198 | 1.1 | 165 | 0.9 |
| South Atlantic | 711 | 1.3 | 702 | 1.3 | 698 | 1.3 | 740 | 1.4 | 683 | 1.3 |
| East South Central | 271 | 1.7 | 256 | 1.6 | 252 | 1.6 | 309 | 2.0 | 234 | 1.5 |
| West South Central | 378 | 1.2 | 369 | 1.2 | 360 | 1.1 | 451 | 1.4 | 306 | 1.0 |
| Mountain | 296 | 1.5 | 291 | 1.5 | 288 | 1.5 | 353 | 1.8 | 238 | 1.2 |
| Pacific | 595 | 1.4 | 593 | 1.4 | 594 | 1.4 | 512 | 1.2 | 679 | 1.5 |

Table N. 1 Past Month Pain Reliever Use (continued)

| Domains | FE Sample (2015+2016) |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent |
| County Type |  |  |  |  |  |  |  |  |  |  |
| Large Metro | 1,859 | 1.2 | 1,900 | 1.2 | 1,910 | 1.2 | 1,980 | 1.3 | 1,737 | 1.2 |
| Small Metro, pop 250,000-1,000,000 | 789 | 1.4 | 781 | 1.4 | 766 | 1.4 | 731 | 1.3 | 847 | 1.5 |
| Small Metro, $<250,000$ population | 416 | 1.6 | 396 | 1.6 | 395 | 1.6 | 515 | 2.0 | 317 | 1.2 a |
| Nonmetro, 20,000 or more urban pop | 206 | 1.3 | 199 | 1.3 | 194 | 1.3 | 227 | 1.5 | 184 | 1.2 |
| Nonmetro, 2,500-19,999 urban pop | 248 | 1.4 | 214 | 1.3 | 212 | 1.3 | 260 | 1.5 | 235 | 1.2 |
| Nonmetro, $<2,500$ urban pop | 45 | 1.1 | 37 | 1.1 | 34 | 1.0 | 62 | 1.3 | 28 | 0.8 |
| College Enrollment |  |  |  |  |  |  |  |  |  |  |
| Persons Aged 18 to $22^{1}$ | 418 | 2.0 | 418 | 2.0 | 416 | 2.0 | 444 | 2.1 | 392 | 1.9 |
| Full-Time College Students | 102 | 1.3 | 105 | 1.3 | 103 | 1.4 a | 99 | 1.3 | 104 | 1.3 |
| Other Persons Aged 18 to $22^{2}$ | 317 | 2.4 | 313 | 2.4 | 313 | 2.3 | 345 | 2.6 | 288 | 2.2 |
| Pregnancy |  |  |  |  |  |  |  |  |  |  |
| Female Aged 15-44 ${ }^{3}$ | 1,015 | 1.6 | 1,016 | 1.6 | 1,020 | 1.6 | 1,029 | 1.6 | 1,001 | 1.6 |
| Pregnant Female Aged 15-44 | 22 | 1.0 | 23 | 1.0 | 23 | 1.0 | 19 | 0.8 | 25 | 1.1 |
| Not Pregnant Female Aged 15-44 | 993 | 1.6 | 993 | 1.6 | 997 | 1.6 | 1,009 | 1.7 | 977 | 1.6 |
| Division by Age Group |  |  |  |  |  |  |  |  |  |  |
| New England |  |  |  |  |  |  |  |  |  |  |
| 12+ | 162 | 1.3 | 169 | 1.3 a | 167 | 1.3 a | 157 | 1.2 | 167 | 1.3 |
| 12-17 | 9 | 0.8 | 9 | 0.9 | 9 | 0.9 | 9 | 0.9 | 9 | 0.8 |
| 18+ | 153 | 1.3 | 160 | 1.4 a | 158 | 1.4 a | 148 | 1.3 | 158 | 1.4 |
| 18-25 | 25 | 1.5 | 26 | 1.6 | 25 | 1.5 | 31 | 1.9 | 18 | 1.1 |
| 26-49 | 81 | 1.8 | 82 | 1.8 | 82 | 1.8 | 77 | 1.7 | 84 | 1.9 |
| 50+ | 47 | 0.9 | 52 | 1.0 a | 51 | 0.9 a | 39 | 0.7 | 56 | 1.0 |
| Middle Atlantic |  |  |  |  |  |  |  |  |  |  |
| 12+ | 419 | 1.2 | 426 | 1.2 | 429 | 1.2 a | 448 | 1.3 | 389 | 1.1 |
| 12-17 | 15 | 0.5 | 15 | 0.5 | 15 | 0.5 | 20 | 0.7 | 10 | 0.3 |
| 18+ | 404 | 1.3 | 411 | 1.3 | 414 | 1.3 a | 428 | 1.3 | 379 | 1.2 |
| 18-25 | 86 | 1.9 | 85 | 1.9 | 87 | 2.0 | 90 | 2.0 | 81 | 1.8 |
| 26-49 | 206 | 1.6 | 210 | 1.6 | 211 | 1.6 | 253 | 2.0 | 159 | 1.2 |
| 50+ | 112 | 0.8 | 116 | 0.8 a | 116 | 0.8 a | 85 | 0.6 | 138 | 0.9 |
| East North Central |  |  |  |  |  |  |  |  |  |  |
| 12+ | 548 | 1.4 | 554 | 1.4 | 556 | 1.4 | 608 | 1.6 | 489 | 1.2 |
| 12-17 | 36 | 1.0 | 36 | 1.0 | 36 | 1.0 | 41 | 1.1 | 31 | 0.8 |
| 18+ | 512 | 1.4 | 518 | 1.5 | 520 | 1.5 | 567 | 1.6 | 458 | 1.3 |
| 18-25 | 131 | 2.6 | 128 | 2.5 | 129 | 2.5 | 146 | 2.9 | 116 | 2.3 |
| 26-49 | 269 | 1.9 | 270 | 1.9 | 269 | 1.9 | 299 | 2.1 | 239 | 1.7 |
| 50+ | 113 | 0.7 | 121 | 0.7 | 122 | 0.7 | 123 | 0.7 | 103 | 0.6 |

(continued)

Table N. 1 Past Month Pain Reliever Use (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (\mathbf{2 0 1 5}+\mathbf{2 0 1 6}) \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in 1,000s) | Percent |
| West North Central |  |  |  |  |  |  |  |  |  |  |
| 12+ | 182 | 1.0 | 167 | 1.0 | 169 | 1.0 | 198 | 1.1 | 165 | 0.9 |
| 12-17 | 23 | 1.4 | 19 | 1.1 | 19 | 1.2 | 29 | 1.8 | 18 | 1.1 |
| 18+ | 158 | 1.0 | 148 | 0.9 | 150 | 0.9 | 169 | 1.1 | 147 | 0.9 |
| 18-25 | 34 | 1.5 | 34 | 1.4 | 36 | 1.5 | 45 | 1.9 | 24 | 1.0 |
| 26-49 | 72 | 1.2 | 74 | 1.2 | 73 | 1.2 | 89 | 1.4 | 55 | 0.9 |
| 50+ | 52 | 0.7 | 41 | 0.6 | 41 | 0.6 | 35 | 0.5 | 69 | 0.9 |
| South Atlantic |  |  |  |  |  |  |  |  |  |  |
| 12+ | 711 | 1.3 | 702 | 1.3 | 698 | 1.3 | 740 | 1.4 | 683 | 1.3 |
| 12-17 | 44 | 0.9 | 47 | 1.0 a | 48 | 1.0 a | 39 | 0.8 | 49 | 1.0 |
| 18+ | 667 | 1.4 | 655 | 1.4 | 650 | 1.3 | 701 | 1.5 | 634 | 1.3 |
| 18-25 | 120 | 1.8 | 120 | 1.8 | 122 | 1.9 | 142 | 2.2 | 98 | 1.5 |
| 26-49 | 338 | 1.8 | 324 | 1.7 | 322 | 1.7 | 361 | 1.9 | 316 | 1.6 |
| 50+ | 209 | 0.9 | 210 | 0.9 | 207 | 0.9 | 198 | 0.9 | 221 | 1.0 |
| East South Central |  |  |  |  |  |  |  |  |  |  |
| 12+ | 271 | 1.7 | 256 | 1.6 | 252 | 1.6 | 309 | 2.0 | 234 | 1.5 |
| 12-17 | 21 | 1.4 | 22 | 1.5 | 21 | 1.4 | 19 | 1.3 | 23 | 1.6 |
| 18+ | 250 | 1.8 | 234 | 1.6 | 231 | 1.6 | 289 | 2.0 | 211 | 1.5 |
| 18-25 | 69 | 3.4 | 72 | 3.6 | 72 | 3.5 | 81 | 4.0 | 58 | 2.9 |
| 26-49 | 157 | 2.8 | 137 | 2.4 a | 134 | 2.4 a | 176 | 3.1 | 139 | 2.5 |
| 50+ | 23 | 0.4 | 25 | 0.4 | 25 | 0.4 | 33 | 0.5 | 14 | 0.2 |
| West South Central |  |  |  |  |  |  |  |  |  |  |
| $12+$ | 378 | 1.2 | 369 | 1.2 | 360 | 1.1 | 451 | 1.4 | 306 | 1.0 |
| 12-17 | 52 | 1.6 | 52 | 1.6 | 51 | 1.5 | 56 | 1.7 | 47 | 1.4 |
| 18+ | 327 | 1.1 | 317 | 1.1 | 309 | 1.1 | 394 | 1.4 | 259 | 0.9 |
| 18-25 | 85 | 2.0 | 87 | 2.0 | 83 | 1.9 | 101 | 2.3 | 68 | 1.6 |
| 26-49 | 177 | 1.4 | 165 | 1.3 | 161 | 1.3 | 190 | 1.6 | 164 | 1.3 |
| $50+$ | 65 | 0.5 | 66 | 0.6 | 65 | 0.5 | 103 | 0.9 | 27 | 0.2 |
| Mountain |  |  |  |  |  |  |  |  |  |  |
| 12+ | 296 | 1.5 | 291 | 1.5 | 288 | 1.5 | 353 | 1.8 | 238 | 1.2 |
| 12-17 | 26 | 1.4 | 27 | 1.4 a | 26 | 1.4 | 29 | 1.5 | 23 | 1.2 |
| 18+ | 269 | 1.5 | 264 | 1.5 | 262 | 1.5 | 324 | 1.9 | 215 | 1.2 |
| 18-25 | 51 | 2.0 | 51 | 2.0 | 52 | 2.0 | 50 | 1.9 | 52 | 2.0 |
| 26-49 | 136 | 1.9 | 135 | 1.9 | 136 | 1.9 | 145 | 2.0 | 127 | 1.7 |
| 50+ | 82 | 1.1 | 77 | 1.0 | 75 | 1.0 | 129 | 1.7 | 36 | 0.5 |

(continued)

Table N. 1 Past Month Pain Reliever Use (continued)

| Domains | FE Sample (2015+2016) |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent |  |
| Pacific |  |  |  |  |  |  |  |  |  |  |  |
| 12+ | 595 | 1.4 | 593 | 1.4 | 594 | 1.4 | 512 | 1.2 | 679 | 1.5 |  |
| 12-17 | 31 | 0.8 | 30 | 0.8 | 31 | 0.8 | 34 | 0.8 | 29 | 0.7 |  |
| 18+ | 564 | 1.4 | 562 | 1.4 | 563 | 1.4 | 478 | 1.2 | 650 | 1.6 |  |
| 18-25 | 129 | 2.2 | 131 | 2.3 | 133 | 2.3 a | 144 | 2.5 | 115 | 2.0 |  |
| 26-49 | 279 | 1.6 | 278 | 1.6 | 277 | 1.6 | 256 | 1.5 | 303 | 1.8 |  |
| 50+ | 156 | 0.9 | 154 | 0.9 | 152 | 0.9 | 79 | 0.5 | 232 | 1.4 | a |
| Division by Hispanicity |  |  |  |  |  |  |  |  |  |  |  |
| New England |  |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 21 | 1.8 | 22 | 1.8 | 21 | 1.7 | 23 | 1.9 | 20 | 1.6 |  |
| Not Hispanic/Latino | 141 | 1.2 | 147 | 1.3 a | 146 | 1.3 a | 134 | 1.2 | 147 | 1.3 |  |
| Middle Atlantic |  |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 63 | 1.2 | 65 | 1.3 | 66 | 1.3 | 70 | 1.4 | 56 | 1.1 |  |
| Not Hispanic/Latino | 356 | 1.2 | 361 | 1.2 | 364 | 1.2 a | 378 | 1.3 | 333 | 1.1 |  |
| East North Central |  |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 44 | 1.5 | 48 | 1.6 | 47 | 1.6 | 60 | 2.0 | 28 | 1.0 |  |
| Not Hispanic/Latino | 504 | 1.4 | 506 | 1.4 | 509 | 1.4 | 548 | 1.5 | 460 | 1.3 |  |
| West North Central |  |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 13 | 1.4 | 11 | 1.2 | 11 | 1.2 | 4 | 0.5 | * | * | * |
| Not Hispanic/Latino | 169 | 1.0 | 156 | 0.9 | 157 | 1.0 | 194 | 1.2 | 143 | 0.9 |  |
| South Atlantic |  |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 70 | 1.0 | 70 | 1.0 | 62 | 0.9 | 95 | 1.4 | 45 | 0.6 |  |
| Not Hispanic/Latino | 641 | 1.4 | 633 | 1.4 | 636 | 1.4 | 644 | 1.4 | 638 | 1.4 |  |
| East South Central |  |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 21 | 3.7 | 21 | 3.8 | 19 | 3.5 | 30 | 5.4 | 11 | 2.0 |  |
| Not Hispanic/Latino | 251 | 1.7 | 235 | 1.5 | 232 | 1.5 | 279 | 1.8 | 223 | 1.5 |  |
| West South Central |  |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 105 | 1.2 | 103 | 1.2 | 97 | 1.1 | 123 | 1.4 | 87 | 1.0 |  |
| Not Hispanic/Latino | 273 | 1.2 | 267 | 1.2 | 262 | 1.1 | 328 | 1.4 | 219 | 1.0 |  |
| Mountain |  |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 92 | 2.1 | 94 | 2.1 | 94 | 2.1 | 105 | 2.4 | 79 | 1.7 |  |
| Not Hispanic/Latino | 204 | 1.4 | 197 | 1.3 | 194 | 1.3 | 248 | 1.7 | 159 | 1.1 |  |
| Pacific |  |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 167 | 1.3 | 169 | 1.3 | 170 | 1.3 | 178 | 1.4 | 155 | 1.2 |  |
| Not Hispanic/Latino | 429 | 1.4 | 424 | 1.4 | 424 | 1.4 | 333 | 1.1 | 524 | 1.7 | a |

Table N. 1 Past Month Pain Reliever Use (continued)

| Domains | FE Sample (2015+2016) |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in 1,000s) | Percent |
| Division by Race |  |  |  |  |  |  |  |  |  |  |
| New England |  |  |  |  |  |  |  |  |  |  |
| White Only | 145 | 1.3 | 150 | 1.4 a | 149 | 1.4 a | 137 | 1.3 | 153 | 1.4 |
| Black Only | 12 | 1.3 | 13 | 1.4 | 12 | 1.3 | 15 | 1.7 | 8 | 0.9 |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * |
| Asian Only | 0 | 0.1 | 0 | 0.1 | 0 | 0.1 | * | * | 1 | 0.1 |
| AIAN Only | 0 | 0.5 | 0 | 0.2 | 0 | 0.2 | 0 | 0.7 | * | * |
| 2 or More Races | 5 | 2.1 | 5 | 2.4 | 4 | 2.0 | 4 | 2.1 | 5 | 2.1 |
| Middle Atlantic |  |  |  |  |  |  |  |  |  |  |
| White Only | 356 | 1.3 | 363 | 1.4 | 365 | 1.4 a | 368 | 1.4 | 344 | 1.3 |
| Black Only | 52 | 1.0 | 52 | 1.0 | 53 | 1.0 | 65 | 1.3 | 38 | 0.7 |
| NHOPI Only | 2 | 1.1 | 2 | 1.2 | 2 | 1.2 | * | * | * | * |
| Asian Only | 3 | 0.1 | 3 | 0.1 | 3 | 0.1 | 6 | 0.2 | * | * |
| AIAN Only | 2 | 0.8 | 2 | 0.7 | 2 | 0.7 | 3 | 1.2 | 1 | 0.3 |
| 2 or More Races | 5 | 0.8 | 5 | 0.8 | 5 | 0.9 | 4 | 0.7 | 6 | 1.0 |
| East North Central |  |  |  |  |  |  |  |  |  |  |
| White Only | 484 | 1.5 | 487 | 1.5 | 487 | 1.5 | 535 | 1.6 | 432 | 1.3 |
| Black Only | 40 | 0.9 | 42 | 0.9 a | 42 | 0.9 a | 46 | 1.0 | 34 | 0.7 |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * |
| Asian Only | 2 | 0.1 | 2 | 0.2 | 2 | 0.2 | 4 | 0.3 | * | * |
| AIAN Only | 5 | 2.4 | 6 | 2.7 | * | * * | 0 | 0.2 | * | * |
| 2 or More Races | 17 | 2.7 | 17 | 2.7 | 17 | 2.8 | 20 | 3.4 | 13 | 2.1 |
| West North Central |  |  |  |  |  |  |  |  |  |  |
| White Only | 141 | 0.9 | 140 | 0.9 | 142 | 0.9 | 147 | 1.0 | 134 | 0.9 |
| Black Only | 21 | 1.8 | 21 | 1.9 | 21 | 1.9 | 18 | 1.6 | 23 | 2.1 |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * |
| Asian Only | * | * | * | * * | * | * * | * | * | * | * * |
| AIAN Only | 3 | 1.6 | 4 | 1.6 | 3 | 1.3 | * | * | 4 | 1.8 * |
| 2 or More Races | * | * | 3 | 0.8 * | 3 | 0.8 * | * | * | 3 | 1.1 * |
| South Atlantic |  |  |  |  |  |  |  |  |  |  |
| White Only | 536 | 1.4 | 524 | 1.4 | 522 | 1.4 | 574 | 1.5 | 499 | 1.3 |
| Black Only | 158 | 1.4 | 159 | 1.4 | 161 | 1.4 | 155 | 1.4 | 161 | 1.4 |
| NHOPI Only | 0 | 0.2 | 0 | 0.1 | 0 | 0.1 | * | * | * | * |
| Asian Only | 3 | 0.2 | 3 | 0.2 | 3 | 0.2 | * | * | 6 | 0.3 |
| AIAN Only | 4 | 1.2 | 6 | 1.6 | 5 | 1.3 | * | * | 4 | 1.3 * |
| 2 or More Races | 9 | 1.0 | 9 | 1.0 | 7 | 0.7 | 7 | 0.8 | 11 | 1.2 |

Table N. 1 Past Month Pain Reliever Use (continued)

(continued)

Table N. 1 Past Month Pain Reliever Use (continued)

| Domains | FE Sample (2015+2016) |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in 1,000s) | Percent |
| Small Metro, pop 250,000-1,000,000 |  |  |  |  |  |  |  |  |  |  |
| $12+$ | 789 | 1.4 | 781 | 1.4 | 766 | 1.4 | 731 | 1.3 | 847 | 1.5 |
| 12-17 | 80 | 1.5 | 79 | 1.5 | 78 | 1.5 | 79 | 1.5 | 81 | 1.5 |
| 18+ | 709 | 1.4 | 703 | 1.4 | 688 | 1.4 | 652 | 1.3 | 766 | 1.5 |
| 18-25 | 164 | 2.2 | 171 | 2.3 a | 168 | 2.3 | 163 | 2.1 | 165 | 2.2 |
| 26-49 | 373 | 1.9 | 354 | 1.8 | 347 | 1.8 | 373 | 1.9 | 372 | 1.9 |
| 50+ | 173 | 0.7 | 177 | 0.8 | 172 | 0.8 | 116 | 0.5 | 229 | 1.0 |
| Small Metro, $<250,000$ population |  |  |  |  |  |  |  |  |  |  |
| $12+$ | 416 | 1.6 | 396 | 1.6 | 395 | 1.6 | 515 | 2.0 | 317 | 1.2 a |
| 12-17 | 21 | 1.0 | 21 | 1.0 | 19 | 0.9 | 27 | 1.2 | 15 | 0.7 |
| 18+ | 395 | 1.7 | 375 | 1.6 | 376 | 1.6 | 488 | 2.1 | 302 | 1.3 a |
| 18-25 | 109 | 3.0 | 108 | 3.0 | 109 | 3.1 | 139 | 4.0 | 78 | 2.1 a |
| 26-49 | 200 | 2.4 | 191 | 2.3 | 188 | 2.3 | 258 | 3.0 | 142 | 1.7 a |
| $50+$ | 86 | 0.8 | 77 | 0.7 | 78 | 0.7 | 91 | 0.8 | 81 | 0.7 |
| Nonmetro, 20,000 or more urban pop |  |  |  |  |  |  |  |  |  |  |
| $12+$ | 206 | 1.3 | 199 | 1.3 | 194 | 1.3 | 227 | 1.5 | 184 | 1.2 |
| 12-17 | 14 | 1.0 | 15 | 1.1 a | 14 | 1.0 | 15 | 1.0 | 13 | 0.9 |
| 18+ | 192 | 1.4 | 183 | 1.4 | 180 | 1.3 | 212 | 1.5 | 171 | 1.2 |
| $18-25$ | 63 | 3.2 | 63 | 3.2 | 62 | 3.1 | 85 | 4.2 | 42 | 2.2 a |
| 26-49 | 77 | 1.5 | 78 | 1.6 | 75 | 1.5 | 82 | 1.6 | 72 | 1.4 |
| 50+ | 51 | 0.8 | 42 | 0.6 | 43 | 0.7 | 45 | 0.7 | 57 | 0.8 |
| Nonmetro, 2,500-19,999 urban pop |  |  |  |  |  |  |  |  |  |  |
| 12+ | 248 | 1.4 | 214 | 1.3 | 212 | 1.3 | 260 | 1.5 | 235 | 1.2 |
| 12-17 | 17 | 1.1 | 17 | 1.2 | 17 | 1.2 | 18 | 1.2 | 16 | 1.0 |
| 18+ | 231 | 1.4 | 197 | 1.3 | 195 | 1.3 | 242 | 1.6 | 219 | 1.2 |
| 18-25 | 60 | 3.0 | 51 | 2.7 | 52 | 3.0 | 61 | 3.1 | 58 | 2.8 |
| 26-49 | 135 | 2.4 | 113 | 2.3 | 112 | 2.3 | 149 | 2.9 | 121 | 2.0 |
| $50+$ | 36 | 0.4 | 33 | 0.4 | 31 | 0.4 | 32 | 0.4 | 40 | 0.4 |
| Nonmetro, $<2,500$ urban pop |  |  |  |  |  |  |  |  |  |  |
| $12+$ | 45 | 1.1 | 37 | 1.1 | 34 | 1.0 | 62 | 1.3 | 28 | 0.8 |
| 12-17 | 8 | 2.3 | 5 | 1.7 | 5 | 1.8 | * | * | 9 | 2.9 * |
| 18+ | 37 | 1.0 | 32 | 1.0 | 29 | 0.9 | 55 | 1.3 | 19 | 0.6 |
| 18-25 | 9 | 2.2 | 6 | 2.0 | 6 | 2.1 | 7 | 1.7 | 10 | 2.8 |
| 26-49 | 14 | 1.1 | 12 | 1.1 | 9 | 0.8 | 21 | 1.5 | 6 | 0.5 |
| $50+$ | 14 | 0.7 | 14 | 0.8 | 14 | 0.8 | 26 | 1.1 | 2 | 0.1 |

(continued)

Table N. 1 Past Month Pain Reliever Use (continued)

| Domains | FE Sample (2015+2016) |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in 1,000s) | Percent |
| County Type by Hispanicity |  |  |  |  |  |  |  |  |  |  |
| Large Metro |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 404 | 1.3 | 413 | 1.4 | 414 | 1.4 | 479 | 1.6 | 329 | 1.1 |
| Not Hispanic/Latino | 1,455 | 1.2 | 1,487 | 1.2 | 1,496 | 1.2 | 1,501 | 1.3 | 1,409 | 1.2 |
| Small Metro, pop 250,000-1,000,000 |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 107 | 1.2 | 109 | 1.2 | 98 | 1.1 | 128 | 1.5 | 86 | 0.9 |
| Not Hispanic/Latino | 682 | 1.5 | 673 | 1.4 | 668 | 1.4 | 603 | 1.3 | 762 | 1.7 a |
| Small Metro, $<250,000$ population |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 59 | 2.2 | 55 | 2.0 | 54 | 2.0 | 51 | 1.9 | 67 | 2.3 |
| Not Hispanic/Latino | 357 | 1.6 | 342 | 1.5 | 341 | 1.5 | 465 | 2.0 | 250 | 1.1 a |
| Nonmetro, 20,000 or more urban pop |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 10 | 0.8 | 10 | 0.9 | 9 | 0.7 | 9 | 0.7 | 11 | 1.0 |
| Not Hispanic/Latino | 196 | 1.4 | 188 | 1.4 | 185 | 1.3 | 218 | 1.6 | 173 | 1.2 |
| Nonmetro, 2,500-19,999 urban pop |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 12 | 1.2 | 11 | 1.2 | 10 | 1.2 | 17 | 2.0 | 7 | 0.6 |
| Not Hispanic/Latino | 236 | 1.4 | 203 | 1.3 | 202 | 1.3 | 243 | 1.5 | 229 | 1.3 |
| Nonmetro, $<2,500$ urban pop |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | * | * | * | * * | * | * * | * | * | * | * * |
| Not Hispanic/Latino | 41 | 1.0 | 33 | 1.0 | 29 | 0.9 | 56 | 1.3 | 25 | 0.7 |
| County Type by Race |  |  |  |  |  |  |  |  |  |  |
| Large Metro |  |  |  |  |  |  |  |  |  |  |
| White Only | 1,472 | 1.3 | 1,506 | 1.3 | 1,514 | 1.3 | 1,523 | 1.4 | 1,421 | 1.3 |
| Black Only | 296 | 1.3 | 305 | 1.3 | 309 | 1.3 | 335 | 1.5 | 257 | 1.1 |
| NHOPI Only | 4 | 0.5 | 4 | 0.5 | 4 | 0.5 | 7 | 1.0 | 1 | 0.1 |
| Asian Only | 29 | 0.2 | 25 | 0.2 | 25 | 0.2 | 52 | 0.5 | 6 | 0.1 |
| AIAN Only | 13 | 0.9 | 14 | 0.9 | 14 | 0.8 | 16 | 1.0 | 10 | 0.7 |
| 2 or More Races | 44 | 1.5 | 45 | 1.5 | 44 | 1.4 | 46 | 1.6 | 42 | 1.4 |
| Small Metro, pop 250,000-1,000,000 |  |  |  |  |  |  |  |  |  |  |
| White Only | 665 | 1.5 | 660 | 1.4 | 644 | 1.4 | 610 | 1.3 | 720 | 1.6 |
| Black Only | 76 | 1.3 | 76 | 1.3 | 78 | 1.3 | 68 | 1.1 | 83 | 1.4 |
| NHOPI Only | 6 | 2.0 | 6 | 2.0 | 6 | 2.1 | * | * | 9 | 2.9 * |
| Asian Only | 4 | 0.2 | 4 | 0.2 | 4 | 0.2 | 3 | 0.2 | 4 | 0.2 |
| AIAN Only | 7 | 1.2 | 4 | 0.7 | 5 | 0.8 | 10 | 1.5 | 5 | 0.8 |
| 2 or More Races | 32 | 2.3 | 31 | 2.3 | 28 | 2.1 | 37 | 2.8 | 26 | 1.9 |

(continued)

Table N. 1 Past Month Pain Reliever Use (continued)


Table N. 1 Past Month Pain Reliever Use (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (2015+2016) \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total <br> (Numbers <br> in 1,000s) | Percent | Total <br> (Numbers <br> in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total <br> (Numbers <br> in 1,000s) | Percent |  |
| Other Persons Aged 18 to $22^{2}$ |  |  |  |  |  |  |  |  |  |  |  |
| Male | 171 | 2.4 | 165 | 2.3 | 165 | 2.3 | 188 | 2.6 | 154 | 2.1 |  |
| Female | 146 | 2.4 | 148 | 2.4 | 148 | 2.4 | 157 | 2.5 | 134 | 2.3 |  |
| Age Group by Gender 12+ |  |  |  |  |  |  |  |  |  |  |  |
| Male | 1,901 | 1.5 | 1,860 | 1.4 | 1,852 | 1.4 | 2,110 | 1.6 | 1,692 | 1.3 | a |
| Female | 1,662 | 1.2 | 1,668 | 1.2 | 1,660 | 1.2 | 1,665 | 1.2 | 1,658 | 1.2 |  |
| 12-17 |  |  |  |  |  |  |  |  |  |  |  |
| Male | 96 | 0.8 | 96 | 0.8 | 95 | 0.7 | 112 | 0.9 | 80 | 0.6 |  |
| Female | 161 | 1.3 | 163 | 1.3 | 160 | 1.3 | 164 | 1.3 | 159 | 1.3 |  |
| 18+ |  |  |  |  |  |  |  |  |  |  |  |
| Male | 1,805 | 1.5 | 1,764 | 1.5 | 1,757 | 1.5 | 1,998 | 1.7 | 1,612 | 1.4 | a |
| Female | 1,500 | 1.2 | 1,505 | 1.2 | 1,500 | 1.2 | 1,501 | 1.2 | 1,499 | 1.2 |  |
| 18-25 |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 2.3 |  | 2.3 |  | $2.2$ | 458 | 2.6 | 331 |  | a |
| Female | 335 | 1.9 | 341 | 2.0 | 347 | 2.0 a | 371 | 2.1 | 300 | 1.7 |  |
| 26-49 |  |  |  |  |  |  |  |  |  |  |  |
| Male | 975 | 2.0 | 937 | 1.9 a | 927 | 1.9 a | 1,097 | 2.3 | 854 | 1.8 | a |
| Female | 740 | 1.5 | 737 | 1.5 | 737 | 1.5 | 749 | 1.5 | 731 | 1.5 |  |
| 50+ |  |  |  |  |  |  |  |  |  |  |  |
| Male | 435 | 0.8 | 435 | 0.8 | 438 | 0.9 | 443 | 0.9 | 426 | 0.8 |  |
| Female | 425 | 0.7 | 427 | 0.7 | 415 | 0.7 | 381 | 0.7 | 468 | 0.8 |  |
| Age Group by Race 12+ |  |  |  |  |  |  |  |  |  |  |  |
| White Only | 2,928 | 1.4 | 2,906 | 1.4 | 2,895 | 1.4 | 3,060 | 1.5 | 2,795 | 1.3 |  |
| Black Only | 431 | 1.3 | 438 | 1.3 | 437 | 1.3 | 462 | 1.4 | 400 | 1.2 |  |
| NHOPI Only | 12 | 0.9 | 12 | 0.9 | 13 | 1.0 | 12 | 1.1 | 12 | 0.8 |  |
| Asian Only | 34 | 0.2 | 30 | 0.2 | 30 | 0.2 | 57 | 0.4 | 12 | 0.1 |  |
| AIAN Only | 35 | 1.1 | 34 | 1.1 | 31 | 1.0 | 36 | 1.1 | 35 | 1.1 |  |
| 2 or More Races | 122 | 2.2 | 107 | 1.9 | 105 | 1.9 | 149 | 2.7 | 96 | 1.7 |  |
| 12-17 |  |  |  |  |  |  |  |  |  |  |  |
| White Only | 188 | 1.0 | 186 | 1.0 | 185 | 1.0 | 208 | 1.1 | 168 | 0.9 |  |
| Black Only | 45 | 1.2 | 47 | 1.3 a | 45 | 1.2 | 42 | 1.1 | 49 | 1.3 |  |
| NHOPI Only | 1 | 0.5 | 1 | 0.5 | 1 | 0.5 | * | * | 1 | 0.7 | * |
| Asian Only | 2 | 0.2 | 2 | 0.2 | 2 | 0.2 | 4 | 0.3 | * | * | * |
| AIAN Only | 3 | 0.8 | 5 | 1.2 | 4 | 1.1 | 3 | 0.7 | 3 | 0.9 |  |
| 2 or More Races | 18 | 1.9 | 18 | 1.9 | 17 | 1.8 | 19 | 2.1 | 17 | 1.8 |  |

(continued)

Table N. 1 Past Month Pain Reliever Use (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (2015+2016) \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total <br> (Numbers <br> in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent |  |
| 18+ |  |  |  |  |  |  |  |  |  |  |  |
| White Only | 2,739 | 1.4 | 2,721 | 1.4 | 2,709 | 1.4 | 2,851 | 1.5 | 2,627 | 1.4 |  |
| Black Only | 385 | 1.3 | 391 | 1.3 | 392 | 1.3 | 420 | 1.4 | 351 | 1.1 |  |
| NHOPI Only | 11 | 0.9 | 11 | 1.0 | 12 | 1.0 | 11 | 1.2 | 11 | 0.8 |  |
| Asian Only | 32 | 0.2 | 28 | 0.2 | 28 | 0.2 | 53 | 0.4 | 12 | 0.1 |  |
| AIAN Only | 32 | 1.2 | 29 | 1.0 | 27 | 1.0 | 33 | 1.2 | 32 | 1.1 |  |
| 2 or More Races | 104 | 2.3 | 89 | 1.9 | 88 | 1.9 | 130 | 2.9 | 78 | 1.7 |  |
| 18-25 |  |  |  |  |  |  |  |  |  |  |  |
| White Only | 596 | 2.3 | 599 | 2.3 | 601 | 2.4 | 676 | 2.6 | 516 | 2.0 | a |
| Black Only | 90 | 1.7 | 91 | 1.7 | 94 | 1.8 | 103 | 1.9 | 77 | 1.5 |  |
| NHOPI Only | 6 | 2.4 | 6 | 2.5 | 6 | 2.7 | 6 | 2.5 | * | * | * |
| Asian Only | 3 | 0.1 | 3 | 0.1 | 3 | 0.1 | 4 | 0.2 | 2 | 0.1 |  |
| AIAN Only | 8 | 1.5 | 8 | 1.4 | 8 | 1.5 | 9 | 1.7 | 7 | 1.4 |  |
| 2 or More Races | 27 | 2.8 | 28 | 2.9 | 26 | 2.7 | 30 | 3.0 | 23 | 2.5 |  |
| 26-49 |  |  |  |  |  |  |  |  |  |  |  |
| White Only | 1,463 | 1.9 | 1,432 | 1.9 | 1,428 | 1.9 | 1,593 | 2.1 | 1,332 | 1.8 |  |
| Black Only | 154 | 1.2 | 150 | 1.1 | 147 | 1.1 | 138 | 1.1 | 171 | 1.3 |  |
| NHOPI Only | 4 | 0.8 | 4 | 0.8 | 5 | 0.9 a | * | * | 6 | 0.9 | * |
| Asian Only | 14 | 0.2 | 14 | 0.2 | 14 | 0.2 | 19 | 0.3 | 10 | 0.1 |  |
| AIAN Only | 21 | 1.5 | 17 | 1.3 | 14 | 1.1 | 23 | 1.7 | 19 | 1.4 |  |
| 2 or More Races | 59 | 3.1 | 57 | 2.9 | 57 | 3.0 | 71 | 3.9 | 48 | 2.4 |  |
| 50+ |  |  |  |  |  |  |  |  |  |  |  |
| White Only | 681 | 0.8 | 690 | 0.8 | 681 | 0.8 | 583 | 0.6 | 778 | 0.9 |  |
| Black Only | 141 | 1.2 | 151 | 1.3 a | 151 | 1.3 a | 178 | 1.5 | 103 | 0.9 |  |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * | * |
| Asian Only | * | * | 11 | 0.2 * | 11 | 0.2 * | * | * | * | * | * |
| AIAN Only | 4 | 0.4 | 4 | 0.4 | 4 | 0.5 | 2 | 0.2 | * | * | * |
| 2 or More Races | 18 | 1.0 | 5 | 0.3 | 5 | 0.3 | * | * | 8 | 0.4 | * |
| Age Group by Hispanicity |  |  |  |  |  |  |  |  |  |  |  |
| 12+ Hispanic/Latino |  |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino Not Hispanic/Latino | 596 | 1.4 | 602 | 1.4 | 589 | 1.3 | 688 | 1.6 | 503 | 1.1 | a |
| Not Hispanic/Latino | 2,967 | 1.3 | 2,926 | 1.3 | 2,923 | 1.3 | 3,087 | 1.4 | 2,847 | 1.3 |  |
| Hispanic/Latino | 63 | 1.1 | 63 | 1.1 | 62 | 1.1 | 70 | 1.2 | 57 | 1.0 |  |
| Not Hispanic/Latino | 194 | 1.0 | 196 | 1.0 | 193 | 1.0 | 207 | 1.1 | 182 | 1.0 |  |

Table N. 1 Past Month Pain Reliever Use (continued)

| Domains | FE Sample (2015+2016) |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent |
| 18+ |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 532 | 1.4 | 539 | 1.4 | 526 | 1.4 | 619 | 1.6 | 446 | 1.2 |
| Not Hispanic/Latino | 2,773 | 1.3 | 2,730 | 1.3 | 2,730 | 1.3 | 2,880 | 1.4 | 2,665 | 1.3 |
| 18-25 |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 142 | 1.9 | 146 | 2.0 a | 147 | 2.0 | 152 | 2.0 | 132 | 1.8 |
| Not Hispanic/Latino | 588 | 2.2 | 588 | 2.2 | 592 | 2.2 | 676 | 2.5 | 499 | 1.8 a |
| 26-49 |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 322 | 1.7 | 319 | 1.6 | 312 | 1.6 | 367 | 1.9 | 277 | 1.4 |
| Not Hispanic/Latino | 1,394 | 1.8 | 1,355 | 1.7 a | 1,352 | 1.7 a | 1,479 | 1.9 | 1,308 | 1.6 |
| 50+ |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 68 | 0.6 | 74 | 0.7 | 67 | 0.6 | 100 | 0.9 | 36 | 0.3 |
| Not Hispanic/Latino | 791 | 0.8 | 788 | 0.8 | 786 | 0.8 | 724 | 0.7 | 858 | 0.9 |
| Pregnancy by Age Group |  |  |  |  |  |  |  |  |  |  |
| Female Aged 15-44 ${ }^{3}$ |  |  |  |  |  |  |  |  |  |  |
| 15-17 | 100 | 1.6 | 102 | 1.6 | 101 | 1.6 | 101 | 1.6 | 99 | 1.6 |
| 18-25 | 335 | 1.9 | 340 | 2.0 | 346 | 2.0 a | 370 | 2.1 | 299 | 1.7 |
| 26-44 | 580 | 1.5 | 574 | 1.4 | 572 | 1.4 | 557 | 1.4 | 603 | 1.5 |
| Pregnant Female Aged 15-44 |  |  |  |  |  |  |  |  |  |  |
| 15-17 | * | * | * | * * | * | * * | * | * | * | * * |
| 18-25 | 5 | 0.7 | 5 | 0.7 | 5 | 0.7 | 10 | 1.2 | 1 | 0.1 |
| 26-44 | 15 | 1.0 | 15 | 1.0 | 15 | 1.0 | 6 | 0.4 | 23 | 1.5 |
| Not Pregnant Female Aged 15-44 |  |  |  |  |  |  |  |  |  |  |
| 15-17 | 98 | 1.6 | 100 | 1.6 | 99 | 1.6 | 98 | 1.6 | 98 | 1.6 |
| 18-25 | 330 | 2.0 | 335 | 2.0 | 341 | 2.1 a | 361 | 2.2 | 298 | 1.8 |
| 26-44 | 566 | 1.5 | 559 | 1.5 | 557 | 1.5 | 551 | 1.5 | 580 | 1.5 |
| Pregnancy by Race |  |  |  |  |  |  |  |  |  |  |
| Female Aged 15-44 ${ }^{3}$ |  |  |  |  |  |  |  |  |  |  |
| White Only | 852 | 1.8 | 848 | 1.8 | 850 | 1.8 | 855 | 1.8 | 849 | 1.8 |
| Black Only | 105 | 1.1 | 110 | 1.2 | 111 | 1.2 | 108 | 1.1 | 103 | 1.1 |
| NHOPI Only | 5 | 1.3 | 6 | 1.4 | 6 | 1.5 a | 6 | 1.7 | 4 | 1.0 |
| Asian Only | 6 | 0.1 | 5 | 0.1 | 6 | 0.1 | 2 | 0.1 | 9 | 0.2 |
| AIAN Only | 6 | 0.7 | 7 | 0.8 | 8 | 0.9 | 8 | 1.0 | 4 | 0.4 |
| 2 or More Races | 41 | 2.7 | 40 | 2.6 | 39 | 2.5 | 49 | 3.2 | 33 | 2.1 |

Table N. 1 Past Month Pain Reliever Use (continued)

| Domains | FE Sample$(2015+2016)$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent |
| Pregnant Female Aged 15-44 |  |  |  |  |  |  |  |  |  |  |
| White Only | 19 | 1.1 | 20 | 1.2 a | 20 | 1.2 a | 13 | 0.8 | 24 | 1.5 |
| Black Only | * | * | * | * * | * | * * | * | * | * | * * |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * * |
| Asian Only | * | * | * | * * | * | * * | * | * | * | * * |
| AIAN Only | * | * | * | * * | * | * * | * | * | * | * * |
| 2 or More Races | * | * | * | * * | * | * * | * | * | * | * * |
| Not Pregnant Female Aged 15-44 |  |  |  |  |  |  |  |  |  |  |
| White Only | 834 | 1.9 | 828 | 1.8 | 831 | 1.9 | 842 | 1.9 | 825 | 1.8 |
| Black Only | 103 | 1.1 | 109 | 1.2 | 109 | 1.2 | 104 | 1.2 | 103 | 1.1 |
| NHOPI Only | 5 | 1.4 | 6 | 1.5 | 6 | 1.6 a | 6 | 1.8 | 4 | 1.0 |
| Asian Only | 6 | 0.1 | 5 | 0.1 | 6 | 0.1 | 2 | 0.1 | 9 | 0.2 |
| AIAN Only | 6 | 0.7 | 7 | 0.9 | 8 | 0.9 | 8 | 1.0 | 4 | 0.5 |
| 2 or More Races | 39 | 2.6 | 39 | 2.6 | 38 | 2.5 | 46 | 3.1 | 32 | 2.2 |
| Pregnancy by Hispanicity |  |  |  |  |  |  |  |  |  |  |
| Female Aged 15-44 ${ }^{3}$ |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 184 | 1.4 | 187 | 1.5 | 188 | 1.5 | 201 | 1.6 | 167 | 1.3 |
| Not Hispanic/Latino | 831 | 1.7 | 829 | 1.6 | 832 | 1.7 | 828 | 1.7 | 834 | 1.6 |
| Pregnant Female Aged 15-44 |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 5 | 1.0 | 5 | 1.0 | 5 | 1.0 | * | * | * | * * |
| Not Hispanic/Latino | 17 | 1.0 | 18 | 1.0 | 18 | 1.0 | 17 | 0.9 | 18 | 1.0 |
| Not Pregnant Female Aged 15-44 |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 179 | 1.4 | 182 | 1.5 | 183 | 1.5 | 198 | 1.6 | 161 | 1.3 |
| Not Hispanic/Latino | 814 | 1.7 | 811 | 1.7 | 814 | 1.7 | 811 | 1.7 | 816 | 1.7 |

* = low precision; -- = not available; AIAN = American Indian or Alaska Native; FE = field enumeration; GQ = group quarters; NHOPI = Native Hawaiian or Other Pacific Islander; pop = population.
${ }^{1}$ Excludes those with unknown enrollment status.
${ }^{2}$ Other Persons include respondents aged 18 to 22 not enrolled in school, enrolled in college part time, enrolled in other grades either full or part time, or enrolled with no other information available.
${ }^{3}$ Excludes those with unknown pregnancy status.
${ }^{a}$ The difference between this estimate and the person sample estimate is statistically significant at the .05 level.

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## Appendix O: 2015-2016 NSDUH - Weighted Annual Averages Substance Use Disorder - UDPYILAL

Table O.1 Substance Use Disorder


Table O.1 Substance Use Disorder (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (2015+2016) \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample <br> Excluding GQ, AIAN <br> Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent |
| County Type |  |  |  |  |  |  |  |  |  |  |
| Large Metro | 11,852 | 7.9 | 12,029 | 7.9 | 12,122 | 7.9 | 12,094 | 8.1 | 11,611 | 7.7 |
| Small Metro, pop 250,000-1,000,000 | 4,141 | 7.4 | 4,203 | 7.5 | 4,126 | 7.5 | 4,169 | 7.4 | 4,112 | 7.4 |
| Small Metro, <250,000 population | 2,013 | 7.9 | 2,033 | 8.0 a | 2,032 | 8.1 a | 2,026 | 7.9 | 2,001 | 7.8 |
| Nonmetro, 20,000 or more urban pop | 1,088 | 7.1 | 1,079 | 7.2 | 1,070 | 7.2 | 1,149 | 7.6 | 1,027 | 6.7 |
| Nonmetro, 2,500-19,999 urban pop | 1,157 | 6.4 | 1,041 | 6.3 | 1,011 | 6.3 | 1,162 | 6.8 | 1,152 | 6.0 |
| Nonmetro, <2,500 urban pop | 210 | 5.1 | 183 | 5.3 | 181 | 5.3 | 210 | 4.6 | 210 | 5.7 |
| College Enrollment |  |  |  |  |  |  |  |  |  |  |
| Persons Aged 18 to $22^{1}$ | 3,182 | 15.0 | 3,201 | 15.1 | 3,143 | 15.1 | 3,204 | 15.1 | 3,160 | 15.0 |
| Full-Time College Students | 1,166 | 14.7 | 1,186 | 14.8 | 1,099 | 14.7 | 1,157 | 14.6 | 1,175 | 14.7 |
| Other Persons Aged 18 to $22^{2}$ | 2,016 | 15.2 | 2,015 | 15.3 | 2,044 | 15.3 | 2,047 | 15.3 | 1,985 | 15.1 |
| Pregnancy |  |  |  |  |  |  |  |  |  |  |
| Female Aged 15-44 ${ }^{3}$ | 5,440 | 8.6 | 5,458 | 8.6 | 5,461 | 8.6 | 5,470 | 8.7 | 5,410 | 8.5 |
| Pregnant Female Aged 15-44 | 169 | 7.4 | 171 | 7.4 | 174 | 7.5 | 201 | 8.8 | 136 | 6.0 |
| Not Pregnant Female Aged 15-44 | 5,272 | 8.6 | 5,287 | 8.7 | 5,287 | 8.7 | 5,269 | 8.7 | 5,274 | 8.6 |
| Division by Age Group <br> New England |  |  |  |  |  |  |  |  |  |  |
| $12+$ | 1,256 | 9.9 | 1,275 | 10.1 | 1,259 | 10.0 | 1,241 | 9.8 | 1,270 | 10.0 |
| 12-17 | 55 | 5.1 | 55 | 5.1 | 55 | 5.2 | 53 | 5.0 | 56 | 5.3 |
| 18+ | 1,201 | 10.4 | 1,220 | 10.5 | 1,203 | 10.4 | 1,188 | 10.3 | 1,214 | 10.5 |
| 18-25 | 314 | 19.0 | 314 | 19.0 | 308 | 18.6 | 282 | 17.1 | 346 | 20.9 |
| 26-49 | 538 | 12.1 | 534 | 12.0 | 524 | 11.8 | 593 | 13.3 | 483 | 10.9 |
| 50+ | 349 | 6.4 | 372 | 6.8 a | 371 | 6.8 a | 312 | 5.7 | 386 | 7.0 |
| Middle Atlantic |  |  |  |  |  |  |  |  |  |  |
| 12+ | 2,590 | 7.4 | 2,616 | 7.4 a | 2,592 | 7.4 | 2,633 | 7.5 | 2,547 | 7.2 |
| 12-17 | 112 | 3.7 | 114 | 3.8 | 114 | 3.7 | 130 | 4.3 | 95 | 3.1 |
| 18+ | 2,477 | 7.7 | 2,502 | 7.8 | 2,479 | 7.7 | 2,503 | 7.8 | 2,452 | 7.6 |
| 18-25 | 741 | 16.7 | 743 | 16.8 | 737 | 16.6 | 769 | 17.2 | 713 | 16.2 |
| 26-49 | 1,184 | 9.2 | 1,190 | 9.3 | 1,173 | 9.1 | 1,174 | 9.1 | 1,193 | 9.3 |
| 50+ | 553 | 3.7 | 569 | 3.8 a | 569 | 3.8 a | 560 | 3.8 | 546 | 3.7 |

[^22]Table O.1 Substance Use Disorder (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ \mathbf{( 2 0 1 5 + 2 0 1 6 )} \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent |
| East North Central |  |  |  |  |  |  |  |  |  |  |
| 12+ | 3,025 | 7.7 | 3,059 | 7.8 a | 3,059 | 7.8 | 3,048 | 7.8 | 3,001 | 7.7 |
| 12-17 | 179 | 4.8 | 177 | 4.8 | 178 | 4.8 | 198 | 5.3 | 159 | 4.3 |
| 18+ | 2,846 | 8.0 | 2,881 | 8.1 a | 2,881 | 8.1 | 2,850 | 8.0 | 2,842 | 8.0 |
| 18-25 | 786 | 15.5 | 792 | 15.6 | 793 | 15.6 | 835 | 16.4 | 738 | 14.6 |
| 26-49 | 1,340 | 9.6 | 1,353 | 9.7 | 1,352 | 9.7 | 1,317 | 9.4 | 1,362 | 9.8 |
| 50+ | 720 | 4.4 | 737 | 4.5 | 736 | 4.5 | 699 | 4.3 | 741 | 4.5 |
| West North Central |  |  |  |  |  |  |  |  |  |  |
| 12+ | 1,297 | 7.4 | 1,297 | 7.4 | 1,308 | 7.5 | 1,308 | 7.5 | 1,286 | 7.3 |
| 12-17 | 78 | 4.7 | 77 | 4.7 | 77 | 4.7 | 74 | 4.5 | 82 | 5.0 |
| 18+ | 1,219 | 7.7 | 1,221 | 7.7 | 1,231 | 7.8 | 1,234 | 7.8 | 1,205 | 7.6 |
| 18-25 | 356 | 15.3 | 354 | 15.3 | 353 | 15.2 | 364 | 15.7 | 347 | 15.0 |
| 26-49 | 570 | 9.2 | 574 | 9.2 | 581 | 9.3 | 579 | 9.3 | 561 | 9.0 |
| 50+ | 294 | 4.0 | 293 | 4.0 | 296 | 4.1 | 291 | 4.0 | 297 | 4.0 |
| South Atlantic |  |  |  |  |  |  |  |  |  |  |
| 12+ | 3,757 | 7.1 | 3,725 | 7.0 | 3,718 | 7.0 | 3,769 | 7.1 | 3,745 | 7.0 |
| 12-17 | 179 | 3.8 | 185 | 3.9 a | 185 | 3.9 | 186 | 4.0 | 172 | 3.6 |
| 18+ | 3,578 | 7.4 | 3,540 | 7.3 | 3,533 | 7.3 | 3,582 | 7.4 | 3,573 | 7.3 |
| 18-25 | 961 | 14.7 | 977 | 14.9 a | 972 | 14.9 | 964 | 14.6 | 958 | 14.8 |
| 26-49 | 1,772 | 9.2 | 1,719 | 8.9 a | 1,715 | 8.9 a | 1,828 | 9.5 | 1,715 | 8.9 |
| 50+ | 845 | 3.7 | 845 | 3.7 | 846 | 3.7 | 790 | 3.5 | 900 | 3.9 |
| East South Central |  |  |  |  |  |  |  |  |  |  |
| 12+ | 1,004 | 6.4 | 1,033 | 6.6 | 1,022 | 6.5 | 1,100 | 7.0 | 909 | 5.8 |
| 12-17 | 54 | 3.7 | 53 | 3.6 | 52 | 3.6 | 60 | 4.1 | 47 | 3.2 |
| 18+ | 951 | 6.7 | 980 | 6.9 | 969 | 6.8 | 1,040 | 7.3 | 862 | 6.0 |
| 18-25 | 267 | 13.2 | 275 | 13.6 | 271 | 13.4 | 264 | 13.0 | 270 | 13.4 |
| 26-49 | 524 | 9.3 | 529 | 9.4 | 524 | 9.3 | 548 | 9.8 | 500 | 8.9 |
| 50+ | 160 | 2.4 | 176 | 2.7 | 174 | 2.6 | 227 | 3.5 | 92 | 1.4 a |
| West South Central |  |  |  |  |  |  |  |  |  |  |
| 12+ | 2,139 | 6.7 | 2,156 | 6.8 | 2,182 | 6.9 | 2,268 | 7.2 | 2,010 | 6.3 |
| 12-17 | 160 | 4.8 | 161 | 4.9 | 161 | 4.9 | 187 | 5.7 | 133 | 4.0 |
| 18+ | 1,979 | 6.9 | 1,995 | 7.0 | 2,020 | 7.1 | 2,081 | 7.4 | 1,877 | 6.6 |
| 18-25 | 571 | 13.2 | 579 | 13.4 | 567 | 13.1 | 566 | 13.0 | 576 | 13.3 |
| 26-49 | 1,015 | 8.3 | 1,016 | 8.3 | 1,052 | 8.6 | 1,087 | 8.9 | 943 | 7.6 |
| 50+ | 393 | 3.3 | 400 | 3.4 | 401 | 3.4 | 428 | 3.6 | 358 | 3.0 |

Table O.1 Substance Use Disorder (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (2015+2016) \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000 s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent |
| Mountain |  |  |  |  |  |  |  |  |  |  |
| 12+ | 1,525 | 7.8 | 1,540 | 7.9 | 1,535 | 7.9 | 1,477 | 7.6 | 1,572 | 8.0 |
| 12-17 | 117 | 6.1 | 118 | 6.1 | 116 | 6.0 | 117 | 6.1 | 117 | 6.1 |
| 18+ | 1,408 | 8.0 | 1,422 | 8.1 | 1,419 | 8.1 | 1,361 | 7.8 | 1,454 | 8.2 |
| 18-25 | 416 | 16.1 | 418 | 16.1 | 421 | 16.3 | 368 | 14.2 | 464 | 17.9 a |
| 26-49 | 669 | 9.2 | 677 | 9.3 | 670 | 9.2 | 670 | 9.3 | 667 | 9.1 |
| 50+ | 323 | 4.2 | 327 | 4.2 | 328 | 4.2 | 322 | 4.2 | 324 | 4.1 |
| Pacific |  |  |  |  |  |  |  |  |  |  |
| 12+ | 3,868 | 8.8 | 3,866 | 8.8 | 3,870 | 8.8 | 3,965 | 9.1 | 3,772 | 8.6 |
| 12-17 | 215 | 5.3 | 215 | 5.4 | 214 | 5.3 | 227 | 5.6 | 202 | 5.0 |
| 18+ | 3,654 | 9.2 | 3,651 | 9.2 | 3,656 | 9.2 | 3,738 | 9.4 | 3,570 | 8.9 |
| 18-25 | 870 | 15.1 | 874 | 15.1 | 883 | 15.3 | 914 | 15.7 | 826 | 14.4 |
| 26-49 | 1,902 | 11.2 | 1,903 | 11.2 | 1,912 | 11.2 | 1,912 | 11.3 | 1,892 | 11.1 |
| 50+ | 882 | 5.2 | 873 | 5.1 | 861 | 5.0 | 911 | 5.4 | 853 | 5.0 |
| Division by Hispanicity |  |  |  |  |  |  |  |  |  |  |
| New England |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 93 | 7.7 | 91 | 7.5 | 87 | 7.2 | 105 | 8.8 | 82 | 6.7 |
| Not Hispanic/Latino | 1,162 | 10.2 | 1,185 | 10.4 | 1,172 | 10.2 | 1,136 | 9.9 | 1,188 | 10.4 |
| Middle Atlantic |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 412 | 8.1 | 414 | 8.2 | 407 | 8.0 | 396 | 7.9 | 428 | 8.4 |
| Not Hispanic/Latino | 2,178 | 7.2 | 2,202 | 7.3 a | 2,186 | 7.3 | 2,237 | 7.4 | 2,119 | 7.1 |
| East North Central |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 260 | 8.8 | 262 | 8.9 | 262 | 8.9 | 248 | 8.5 | 272 | 9.1 |
| Not Hispanic/Latino | 2,764 | 7.6 | 2,797 | 7.7 a | 2,796 | 7.7 a | 2,800 | 7.7 | 2,729 | 7.5 |
| West North Central |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 71 | 7.5 | 68 | 7.2 | 69 | 7.3 | 77 | 8.3 | 64 | 6.7 |
| Not Hispanic/Latino | 1,226 | 7.4 | 1,229 | 7.4 | 1,239 | 7.5 | 1,231 | 7.4 | 1,222 | 7.4 |
| South Atlantic |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 374 | 5.5 | 377 | 5.5 | 370 | 5.4 | 392 | 5.8 | 357 | 5.1 |
| Not Hispanic/Latino | 3,383 | 7.3 | 3,348 | 7.2 | 3,348 | 7.2 | 3,377 | 7.3 | 3,388 | 7.3 |
| East South Central |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 42 | 7.5 | 43 | 7.8 | 42 | 7.5 | 50 | 9.0 | 34 | 6.1 |
| Not Hispanic/Latino | 963 | 6.3 | 990 | 6.5 | 980 | 6.5 | 1,050 | 6.9 | 875 | 5.8 |

(continued)

Table O.1 Substance Use Disorder (continued)

| Domains | FE Sample (2015+2016) |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000 s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent |
| West South Central |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 592 | 6.7 | 603 | 6.8 | 600 | 6.8 | 739 | 8.5 | 445 | 5.0 a |
| Not Hispanic/Latino | 1,547 | 6.7 | 1,553 | 6.8 | 1,582 | 6.9 | 1,529 | 6.7 | 1,566 | 6.8 |
| Mountain |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 324 | 7.3 | 328 | 7.4 | 330 | 7.4 | 333 | 7.6 | 314 | 7.0 |
| Not Hispanic/Latino | 1,201 | 8.0 | 1,211 | 8.1 | 1,205 | 8.0 | 1,144 | 7.7 | 1,258 | 8.3 |
| Pacific |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 1,122 | 8.6 | 1,122 | 8.6 | 1,121 | 8.6 | 1,230 | 9.5 | 1,013 | 7.7 |
| Not Hispanic/Latino |  | 8.9 | 2,744 | 8.9 | 2,748 | 8.9 | 2,735 | 8.9 | 2,759 | 8.9 |
| Division by Race |  |  |  |  |  |  |  |  |  |  |
| New England |  |  |  |  |  |  |  |  |  |  |
| White Only | 1,098 | 10.1 | 1,100 | 10.2 | 1,089 | 10.1 | 1,076 | 9.9 | 1,119 | 10.3 |
| Black Only | 79 | 8.6 | 83 | 9.1 | 79 | 8.6 | 79 | 8.7 | 79 | 8.5 |
| NHOPI Only | * | * | * | * | * | * * | - | * | - | * |
| Asian Only | 22 | 3.7 | 24 | 4.2 | 26 | 4.6 | 28 | 4.9 | 16 | 2.7 |
| AIAN Only | 2 | 3.2 | 1 | 2.3 | 2 | 2.5 | 3 | 5.1 | 1 | 1.4 |
| 2 or More Races | * | * | * | * * | * | * * | * | * | * | * |
| Middle Atlantic |  |  |  |  |  |  |  |  |  |  |
| White Only | 1,984 | 7.5 | 2,005 | 7.6 | 1,994 | 7.5 | 2,070 | 7.8 | 1,899 | 7.2 |
| Black Only | 434 | 8.5 | 435 | 8.5 | 423 | 8.3 | 411 | 8.0 | 458 | 8.9 |
| NHOPI Only | 8 | 5.6 | 8 | 5.7 | 8 | 5.7 | * | * | * | * * |
| Asian Only | 91 | 3.6 | 93 | 3.7 | 92 | 3.7 | 94 | 3.8 | 88 | 3.5 |
| AIAN Only | 16 | 6.9 | 18 | 7.7 | 18 | 7.7 | 15 | 6.3 | * | * * |
| 2 or More Races | 56 | 8.9 | 56 | 9.0 | 57 | 9.2 | 30 | 4.9 | 81 | 12.8 a |
| East North Central |  |  |  |  |  |  |  |  |  |  |
| White Only | 2,537 | 7.8 | 2,556 | 7.9 | 2,559 | 7.9 | 2,539 | 7.8 | 2,535 | 7.8 |
| Black Only | 372 | 8.1 | 387 | 8.4 a | 383 | 8.3 | 394 | 8.6 | 350 | 7.6 |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * |
| Asian Only | 28 | 2.2 | 29 | 2.2 | 29 | 2.3 | 47 | 3.7 | 9 | 0.7 a |
| AIAN Only | 19 | 8.6 | 21 | 9.8 | 21 | 9.7 | 14 | 6.7 | 23 | 10.5 |
| 2 or More Races | 66 | 10.7 | 64 | 10.3 | 64 | 10.3 | 50 | 8.3 | 81 | 13.0 |

Table O.1 Substance Use Disorder (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (2015+2016) \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in 1,000s) | Percent |
| West North Central |  |  |  |  |  |  |  |  |  |  |
| White Only | 1,117 | 7.3 | 1,128 | 7.4 | 1,131 | 7.4 | 1,123 | 7.3 | 1,111 | 7.2 |
| Black Only | 88 | 7.8 | 88 | 7.8 | 89 | 7.9 | 76 | 6.8 | 101 | 8.9 |
| NHOPI Only | * | * | * | * * | * | * | * | * | * | * |
| Asian Only | 26 | 5.3 | 25 | 5.1 | 26 | 5.2 | 40 | 8.1 | 12 | 2.5 a |
| AIAN Only | 38 | 17.2 | 30 | 13.7 | * | * * | * | * | * | * * |
| 2 or More Races | 26 | 8.6 | 23 | 7.8 | 22 | 7.3 | 20 | 6.7 | 31 | 10.3 |
| South Atlantic |  |  |  |  |  |  |  |  |  |  |
| White Only | 2,798 | 7.3 | 2,748 | 7.2 | 2,741 | 7.2 | 2,861 | 7.5 | 2,735 | 7.1 |
| Black Only | 801 | 6.9 | 812 | 7.0 | 816 | 7.1 | 759 | 6.6 | 843 | 7.2 |
| NHOPI Only | 8 | 4.0 | 8 | 4.1 | 7 | 4.2 | * | * | * | * * |
| Asian Only | 63 | 3.3 | 65 | 3.5 | 63 | 3.3 | 61 | 3.3 | 65 | 3.4 |
| AIAN Only | 18 | 5.3 | 20 | 5.8 | 17 | 4.8 | 21 | 6.0 | 16 | 4.5 |
| 2 or More Races | 69 | 7.6 | 72 | 7.9 | 74 | 8.1 | 62 | 6.9 | 77 | 8.3 |
| East South Central |  |  |  |  |  |  |  |  |  |  |
| White Only | 809 | 6.7 | 845 | 7.0 a | 842 | 7.0 a | 930 | 7.7 | 688 | 5.7 a |
| Black Only | 164 | 5.2 | 161 | 5.1 | 158 | 5.0 | 149 | 4.8 | 180 | 5.7 |
| NHOPI Only | * | * | * | * * | * | * * | , | , |  | * * |
| Asian Only | 10 | 4.4 | 10 | 4.2 | * | * * | * | * | * | * * |
| AIAN Only | * | * | * | * * | * | * * | * | * | * | * |
| 2 or More Races | 14 | 7.1 | 11 | 5.4 | 10 | 4.9 | * | * | * | * |
| West South Central |  |  |  |  |  |  |  |  |  |  |
| White Only | 1,672 | 6.7 | 1,690 | 6.8 | 1,701 | 6.9 | 1,780 | 7.2 | 1,563 | 6.3 |
| Black Only | 314 | 7.0 | 320 | 7.1 | 334 | 7.4 | 354 | 7.9 | 274 | 6.0 |
| NHOPI Only | * | * | * | * * | * | * | * | * |  | * * |
| Asian Only | 48 | 3.9 | 48 | 3.9 | 41 | 3.3 | 43 | 3.5 | 53 | 4.2 |
| AIAN Only | 50 | 8.9 | 47 | 8.4 | 56 | 10.1 | 50 | 9.0 | 50 | 8.8 |
| 2 or More Races | 43 | 7.3 | 42 | 7.1 | 44 | 7.5 | 31 | 5.3 | 55 | 9.1 |
| Mountain |  |  |  |  |  |  |  |  |  |  |
| White Only | 1,297 | 7.7 | 1,303 | 7.7 | 1,305 | 7.7 | 1,263 | 7.6 | 1,331 | 7.8 |
| Black Only | 69 | 9.1 | 70 | 9.3 | 71 | 9.4 | 62 | 8.4 | 76 | 9.8 |
| NHOPI Only | 7 | 4.5 | 7 | 4.6 | 6 | 4.3 | * | * | * | * * |
| Asian Only | 22 | 3.5 | 21 | 3.3 | 21 | 3.3 | 19 | 3.1 | 24 | 3.8 |
| AIAN Only | 79 | 11.8 | 87 | 12.8 | 83 | 12.2 | 73 | 10.9 | 86 | 12.6 |
| 2 or More Races | 51 | 11.2 | 53 | 11.7 | 50 | 11.1 | 53 | 12.0 | 48 | 10.5 |

Table O.1 Substance Use Disorder (continued)

| Domains | FE Sample$(2015+2016)$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in 1,000s) | Percent |
| Pacific |  |  |  |  |  |  |  |  |  |  |
| White Only | 3,091 | 9.5 | 3,086 | 9.5 | 3,085 | 9.5 | 3,176 | 9.8 | 3,007 | 9.2 |
| Black Only | 241 | 10.1 | 239 | 10.0 | 242 | 10.1 | 228 | 9.5 | 255 | 10.6 |
| NHOPI Only | 36 | 5.8 | 35 | 5.8 | 34 | 5.6 | 42 | 9.2 | * | * * |
| Asian Only | 253 | 4.3 | 251 | 4.2 | 252 | 4.2 | 247 | 4.1 | 259 | 4.4 |
| AIAN Only | 83 | 10.6 | 86 | 11.1 | 88 | 11.3 | 96 | 12.5 | 69 | 8.8 |
| 2 or More Races | 164 | 10.0 | 168 | 10.2 | 169 | 10.3 | 177 | 10.9 | 152 | 9.1 |
| County Type by Age Group |  |  |  |  |  |  |  |  |  |  |
| Large Metro |  |  |  |  |  |  |  |  |  |  |
| $12+$ | 11,852 | 7.9 | 12,029 | 7.9 | 12,122 | 7.9 | 12,094 | 8.1 | 11,611 | 7.7 |
| 12-17 | 638 | 4.5 | 652 | 4.6 | 649 | 4.5 | 685 | 4.9 | 592 | 4.2 |
| 18+ | 11,214 | 8.3 | 11,377 | 8.3 | 11,473 | 8.2 | 11,409 | 8.4 | 11,019 | 8.1 |
| 18-25 | 2,982 | 15.5 | 3,026 | 15.5 | 3,037 | 15.4 | 2,972 | 15.3 | 2,992 | 15.6 |
| 26-49 | 5,739 | 9.8 | 5,820 | 9.8 | 5,884 | 9.8 | 5,865 | 10.0 | 5,614 | 9.5 |
| 50+ | 2,493 | 4.3 | 2,532 | 4.3 | 2,552 | 4.3 | 2,572 | 4.5 | 2,414 | 4.2 |
| Small Metro, pop 250,000-1,000,000 |  |  |  |  |  |  |  |  |  |  |
| $12+$ | 4,141 | 7.4 | 4,203 | 7.5 | 4,126 | 7.5 | 4,169 | 7.4 | 4,112 | 7.4 |
| 12-17 | 255 | 4.8 | 256 | 4.8 | 254 | 4.9 | 276 | 5.1 | 233 | 4.4 |
| $18+$ | 3,886 | 7.7 | 3,947 | 7.8 | 3,873 | 7.8 | 3,894 | 7.7 | 3,878 | 7.8 |
| $18-25$ | 1,084 | 14.5 | 1,106 | 14.7 | 1,079 | 14.5 | 1,096 | 14.5 | 1,073 | 14.6 |
| 26-49 | 1,825 | 9.3 | 1,835 | 9.3 | 1,808 | 9.3 | 1,816 | 9.2 | 1,833 | 9.4 |
| 50+ | 977 | 4.2 | 1,006 | 4.3 | 986 | 4.3 | 982 | 4.2 | 972 | 4.2 |
| Small Metro, $<250,000$ population |  |  |  |  |  |  |  |  |  |  |
| $12+$ | 2,013 | 7.9 | 2,033 | 8.0 a | 2,032 | 8.1 a | 2,026 | 7.9 | 2,001 | 7.8 |
| 12-17 | 97 | 4.4 | 100 | 4.6 a | 102 | 4.7 a | 97 | 4.4 | 96 | 4.5 |
| 18+ | 1,917 | 8.2 | 1,933 | 8.4 | 1,930 | 8.4 | 1,929 | 8.3 | 1,904 | 8.1 |
| 18-25 | 595 | 16.6 | 607 | 17.0 a | 612 | 17.2 a | 609 | 17.5 | 581 | 15.8 |
| 26-49 | 889 | 10.5 | 883 | 10.5 | 869 | 10.4 | 961 | 11.1 | 816 | 9.8 |
| $50+$ | 432 | 3.8 | 442 | 4.0 | 449 | 4.0 | 358 | 3.2 | 506 | 4.5 |

(continued)

Table O.1 Substance Use Disorder (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (\mathbf{2 0 1 5 + 2 0 1 6 )} \\ \hline \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000 s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in 1,000s) | Percent |
| Nonmetro, 20,000 or more urban pop |  |  |  |  |  |  |  |  |  |  |
| 12+ | 1,088 | 7.1 | 1,079 | 7.2 | 1,070 | 7.2 | 1,149 | 7.6 | 1,027 | 6.7 |
| 12-17 | 71 | 4.9 | 69 | 5.0 | 68 | 4.9 | 75 | 5.3 | 66 | 4.6 |
| 18+ | 1,018 | 7.4 | 1,010 | 7.5 | 1,002 | 7.4 | 1,074 | 7.8 | 962 | 6.9 |
| 18-25 | 284 | 14.3 | 281 | 14.4 | 284 | 14.5 | 319 | 15.5 | 249 | 12.9 |
| 26-49 | 422 | 8.3 | 399 | 8.1 | 402 | 8.2 | 442 | 8.8 | 403 | 7.9 |
| 50+ | 312 | 4.6 | 330 | 5.0 a | 316 | 4.8 | 313 | 4.7 | 310 | 4.5 |
| Nonmetro, 2,500-19,999 urban pop |  |  |  |  |  |  |  |  |  |  |
| $12+$ | 1,157 | 6.4 | 1,041 | 6.3 | 1,011 | 6.3 | 1,162 | 6.8 | 1,152 | 6.0 |
| 12-17 | 70 | 4.5 | 63 | 4.4 | 63 | 4.6 | 80 | 5.5 | 61 | 3.6 |
| 18+ | 1,086 | 6.5 | 978 | 6.4 | 949 | 6.4 | 1,082 | 6.9 | 1,091 | 6.2 |
| 18-25 | 283 | 14.1 | 259 | 13.9 | 244 | 13.9 | 275 | 14.1 | 290 | 14.0 |
| 26-49 | 543 | 9.7 | 468 | 9.3 | 454 | 9.3 | 530 | 10.3 | 556 | 9.1 |
| 50+ | 260 | 2.9 | 251 | 3.0 | 250 | 3.1 | 276 | 3.3 | 244 | 2.6 |
| Nonmetro, $<2,500$ urban pop |  |  |  |  |  |  |  |  |  |  |
| $12+$ | 210 | 5.1 | 183 | 5.3 | 181 | 5.3 | 210 | 4.6 | 210 | 5.7 |
| 12-17 | 18 | 5.3 | 16 | 5.9 | 16 | 5.8 | 20 | 5.4 | 16 | 5.1 |
| 18+ | 192 | 5.1 | 167 | 5.3 | 165 | 5.3 | 190 | 4.5 | 193 | 5.7 |
| 18-25 | 54 | 13.3 | 47 | 15.1 | 48 | 15.5 | * | * | 50 | 14.0 * |
| 26-49 | 93 | 7.1 | 90 | 8.5 a | 87 | 8.5 a | 95 | 6.5 | 92 | 7.9 |
| 50+ | 45 | 2.2 | 30 | 1.7 | 30 | 1.7 | 38 | 1.7 | 51 | 2.8 |
| County Type by Hispanicity |  |  |  |  |  |  |  |  |  |  |
| Large Metro |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 2,218 | 7.4 | 2,255 | 7.4 | 2,262 | 7.4 | 2,439 | 8.1 | 1,997 | 6.7 a |
| Not Hispanic/Latino | 9,634 | 8.0 | 9,774 | 8.0 | 9,860 | 8.0 | 9,654 | 8.1 | 9,615 | 8.0 |
| Small Metro, pop 250,000-1,000,000 |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 646 | 7.4 | 646 | 7.4 | 626 | 7.3 | 653 | 7.8 | 639 | 7.0 |
| Not Hispanic/Latino | 3,495 | 7.5 | 3,556 | 7.5 | 3,501 | 7.5 | 3,516 | 7.4 | 3,473 | 7.5 |
| Small Metro, < 250,000 population |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 229 | 8.4 | 227 | 8.4 | 222 | 8.3 | 253 | 9.7 | 205 | 7.1 |
| Not Hispanic/Latino | 1,784 | 7.8 | 1,806 | 8.0 a | 1,810 | 8.0 a | 1,773 | 7.7 | 1,796 | 7.9 |
| Nonmetro, 20,000 or more urban pop |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 114 | 9.4 | 107 | 9.1 | 103 | 8.8 | 146 | 11.2 | 82 | 7.2 |
| Not Hispanic/Latino | 975 | 6.9 | 972 | 7.1 | 968 | 7.0 | 1,004 | 7.2 | 945 | 6.7 |

Table O.1 Substance Use Disorder (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (\mathbf{2 0 1 5 + 2 0 1 6}) \\ \hline \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in 1,000 s) | Percent | Total (Numbers in 1,000s) | Percent |
| Nonmetro, 2,500-19,999 urban pop |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 57 | 5.8 | 51 | 5.8 | 51 | 5.8 | 52 | 6.3 | 62 | 5.4 |
| Not Hispanic/Latino | 1,100 | 6.4 | 990 | 6.3 | 961 | 6.3 | 1,110 | 6.9 | 1,090 | 6.0 |
| Nonmetro, $<2,500$ urban pop |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 26 | 18.2 | * | * * | * | * | * | * | * | * * |
| Not Hispanic/Latino | 184 | 4.6 | 161 | 4.9 | 156 | 4.8 | 183 | 4.2 | 185 | 5.2 |
| County Type by Race |  |  |  |  |  |  |  |  |  |  |
| Large Metro |  |  |  |  |  |  |  |  |  |  |
| White Only | 9,184 | 8.3 | 9,303 | 8.3 | 9,366 | 8.3 | 9,437 | 8.6 | 8,930 | 8.1 |
| Black Only | 1,753 | 7.8 | 1,788 | 7.9 | 1,798 | 7.8 | 1,763 | 7.9 | 1,743 | 7.7 |
| NHOPI Only | 46 | 5.4 | 45 | 5.2 | 42 | 4.9 | 51 | 7.4 | 41 | 4.1 |
| Asian Only | 467 | 4.0 | 469 | 4.0 | 465 | 3.9 | 487 | 4.2 | 447 | 3.8 |
| AIAN Only | 130 | 8.6 | 135 | 8.9 | 159 | 9.6 | 139 | 8.9 | 121 | 8.2 |
| 2 or More Races | 273 | 9.4 | 289 | 9.6 | 292 | 9.4 | 216 | 7.6 | 330 | 11.0 |
| Small Metro, pop 250,000-1,000,000 |  |  |  |  |  |  |  |  |  |  |
| White Only | 3,468 | 7.6 | 3,509 | 7.7 | 3,440 | 7.7 | 3,522 | 7.7 | 3,413 | 7.6 |
| Black Only | 391 | 6.6 | 404 | 6.8 | 401 | 6.8 | 359 | 6.0 | 422 | 7.2 |
| NHOPI Only | 26 | 8.6 | 25 | 8.3 | 23 | 7.7 | 26 | 9.6 |  | * * |
| Asian Only | 72 | 3.4 | 74 | 3.5 | 69 | 3.4 | 69 | 3.2 | 74 | 3.6 |
| AIAN Only | 46 | 7.3 | 49 | 7.4 | 58 | 8.4 | 45 | 7.2 | 46 | 7.5 |
| 2 or More Races | 139 | 10.3 | 141 | 10.2 | 136 | 10.3 | 147 | 11.1 | 131 | 9.5 |
| Small Metro, <250,000 population |  |  |  |  |  |  |  |  |  |  |
| White Only | 1,717 | 7.9 | 1,729 | 8.0 | 1,734 | 8.1 | 1,734 | 8.0 | 1,699 | 7.8 |
| Black Only | 180 | 7.5 | 180 | 7.6 | 169 | 7.6 | 182 | 7.1 | 179 | 7.8 |
| NHOPI Only | 4 | 5.5 | * | * * | * | * * | * | * | * | * * |
| Asian Only | 18 | 2.9 | 20 | 3.6 a | 19 | 3.4 | 19 | 2.8 | 17 | 3.0 |
| AIAN Only | 38 | 13.1 | 43 | 12.4 | 47 | 12.0 | 30 | 10.6 | * | * * |
| 2 or More Races | 57 | 11.8 | 57 | 12.9 | 58 | 12.9 | 55 | 12.4 | 58 | 11.4 |
| Nonmetro, 20,000 or more urban pop |  |  |  |  |  |  |  |  |  |  |
| White Only | 920 | 7.1 | 909 | 7.1 | 908 | 7.1 | 978 | 7.5 | 862 | 6.6 |
| Black Only | 111 | 8.3 | 105 | 7.9 | 107 | 8.0 | 98 | 8.0 | 123 | 8.6 |
| NHOPI Only | 4 | 6.2 | 3 | 5.3 | 2 | 4.6 | * | * | , | * * |
| Asian Only | 4 | 1.8 | 2 | 1.1 | 2 | 1.1 | 4 | 1.8 | 4 | 1.9 |
| AIAN Only | 27 | 9.7 | 36 | 12.0 a | 28 | 10.8 | 32 | 13.8 | 21 | 6.7 |
| 2 or More Races | 23 | 6.6 | 23 | 7.8 a | 22 | 7.6 | 31 | 7.2 | 15 | 5.7 |

Table O.1 Substance Use Disorder (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (2015+2016) \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in 1,000s) | Percent |
| Nonmetro, 2,500-19,999 urban pop |  |  |  |  |  |  |  |  |  |  |
| White Only | 954 | 6.1 | 864 | 6.0 | 851 | 6.1 | 981 | 6.7 | 926 | 5.6 |
| Black Only | 110 | 6.5 | 99 | 6.5 | 99 | 6.7 | 89 | 5.9 | 132 | 7.1 |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * * |
| Asian Only | * | * | * | * * | * | * * | * | * | * | * * |
| AIAN Only | 52 | 14.3 | 42 | 14.8 | * | * * | 58 | 16.9 | 46 | 12.0 |
| 2 or More Races | 37 | 10.8 | 33 | 10.6 | 32 | 11.3 | 28 | 9.8 | * | * * |
| Nonmetro, <2,500 urban pop |  |  |  |  |  |  |  |  |  |  |
| White Only | 161 | 4.4 | 146 | 4.7 | 149 | 4.8 | 166 | 4.1 | 156 | 4.8 |
| Black Only |  | * | * | * * | * | * * | * | * | * | * * |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * * |
| Asian Only | * | * | * | * * | * | * * | * | * | * | * * |
| AIAN Only | 20 | 17.9 | * | * * | * | * * | 17 | 17.1 | * | * * |
| $\xrightarrow{2}$ or More Races | * | * | * | * * | * | * * | * | * | * |  |
| College Enrollment by Gender Persons Aged 18 to $22^{1}$ |  |  |  |  |  |  |  |  |  |  |
| Male | 1,805 | 16.6 | 1,815 | 16.7 | 1,795 | 16.8 | 1,816 | 16.7 | 1,794 | 16.5 |
| Female | 1,377 | 13.3 | 1,386 | 13.4 | 1,348 | 13.3 | 1,388 | 13.3 | 1,366 | 13.4 |
| Full-Time College Students |  |  |  |  |  |  |  |  |  |  |
| Male | 619 | 16.9 | 631 | 17.0 | 596 | 17.2 | 656 | 17.5 | 581 | 16.2 |
| Female | 547 | 12.8 | 555 | 13.0 | 502 | 12.5 | 501 | 12.0 | 593 | 13.6 |
| Other Persons Aged 18 to $22^{2}$ |  |  |  |  |  |  |  |  |  |  |
| Male | 1,186 | 16.5 | 1,184 | 16.6 | 1,198 | 16.6 | 1,160 | 16.3 | 1,213 | 16.7 |
| Female | 830 | 13.7 | 831 | 13.8 | 846 | 13.8 | 888 | 14.2 | 772 | 13.2 |
| Age Group by Gender |  |  |  |  |  |  |  |  |  |  |
| 12+ |  |  |  |  |  |  |  |  |  |  |
| Male | 12,839 | 9.9 | 12,925 | 9.9 | 12,909 | 9.9 | 13,275 | 10.2 | 12,402 | 9.5 a |
| Female | 7,622 | 5.5 | 7,643 | 5.5 | 7,635 | 5.5 | 7,535 | 5.5 | 7,710 | 5.6 |
| 12-17 |  |  |  |  |  |  |  |  |  |  |
| Male | 560 | 4.4 | 570 | 4.5 a | 567 | 4.5 | 611 | 4.8 | 509 | 4.0 a |
| Female | 588 | 4.8 | 586 | 4.8 | 586 | 4.8 | 622 | 5.1 | 555 | 4.5 |
| 18+ |  |  |  |  |  |  |  |  |  |  |
| Male | 12,279 | 10.5 | 12,355 | 10.5 | 12,342 | 10.5 | 12,664 | 10.8 | 11,893 | 10.1 |
| Female | 7,034 | 5.6 | 7,057 | 5.6 | 7,049 | 5.6 | 6,913 | 5.5 | 7,155 | 5.7 |

Table O.1 Substance Use Disorder (continued)


Table O.1 Substance Use Disorder (continued)


Table O.1 Substance Use Disorder (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (2015+2016) \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent |
| 26-49 |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 1,577 | 8.1 | 1,585 | 8.1 | 1,587 | 8.2 | 1,654 | 8.5 | 1,500 | 7.7 |
| Not Hispanic/Latino | 7,935 | 10.0 | 7,910 | 10.0 | 7,916 | 10.0 | 8,056 | 10.2 | 7,814 | 9.8 |
| 50+ |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 372 | 3.3 | 383 | 3.4 | 373 | 3.3 | 504 | 4.6 | 241 | 2.1 a |
| Not Hispanic/Latino | 4,146 | 4.2 | 4,208 | 4.3 | 4,210 | 4.3 | 4,036 | 4.1 | 4,256 | 4.3 |
| Pregnancy by Age Group |  |  |  |  |  |  |  |  |  |  |
| Female Aged 15-44 ${ }^{3}$ |  |  |  |  |  |  |  |  |  |  |
| 15-17 | 473 | 7.5 | 469 | 7.5 | 469 | 7.5 | 525 | 8.5 | 421 | 6.6 a |
| 18-25 | 2,192 | 12.7 | 2,215 | 12.9 a | 2,194 | 12.7 | 2,167 | 12.5 | 2,217 | 13.0 |
| 26-44 | 2,775 | 7.0 | 2,775 | 7.0 | 2,798 | 7.0 | 2,778 | 7.1 | 2,772 | 6.9 |
| $\underset{\text { Pregnant Female Aged 15-17 }}{ }$ |  |  |  |  | * |  |  |  |  |  |
| 15-17 | * | * | * | * * | * | * * | * | * | * | * * |
| 18-25 | 81 | 10.9 | 81 | 10.9 | 81 | 10.7 | 115 | 13.8 | 48 | 7.2 a |
| 26-44 | 84 | 5.6 | 86 | 5.7 | 89 | 5.9 | 84 | 5.9 | 84 | 5.4 |
| Not Pregnant Female Aged 15-44 |  |  |  |  |  |  |  |  |  |  |
| 15-17 | 470 | 7.5 | 465 | 7.5 | 465 | 7.5 | 522 | 8.5 | 417 | 6.6 a |
| 18-25 | 2,111 | 12.8 | 2,134 | 13.0 a | 2,112 | 12.8 | 2,052 | 12.4 | 2,169 | 13.2 |
| 26-44 | 2,691 | 7.0 | 2,688 | 7.0 | 2,709 | 7.1 | 2,695 | 7.1 | 2,687 | 7.0 |
| Pregnancy by Race |  |  |  |  |  |  |  |  |  |  |
| Female Aged 15-44 ${ }^{3}$ |  |  |  |  |  |  |  |  |  |  |
| White Only | 4,278 | 9.2 | 4,294 | 9.2 | 4,288 | 9.2 | 4,206 | 9.1 | 4,349 | 9.3 |
| Black Only | 678 | 7.2 | 673 | 7.1 | 673 | 7.1 | 698 | 7.4 | 658 | 6.9 |
| NHOPI Only | 25 | 6.3 | 26 | 6.6 | 24 | 6.3 | 42 | 11.7 | 8 | 1.9 a |
| Asian Only | 180 | 4.1 | 179 | 4.1 | 173 | 4.0 | 218 | 5.0 | 142 | 3.1 |
| AIAN Only | 96 | 11.1 | 100 | 11.4 | 116 | 12.6 | 112 | 13.1 | 79 | 9.2 |
| 2 or More Races | 184 | 12.0 | 186 | 12.1 | 188 | 12.1 | 194 | 12.8 | 174 | 11.3 |
| Pregnant Female Aged 15-44 |  |  |  |  |  |  |  |  |  |  |
| White Only | 139 | 8.3 | 141 | 8.4 | 144 | 8.5 | 157 | 9.2 | 122 | 7.4 |
| Black Only | 21 | 5.7 | 22 | 5.8 | 21 | 5.6 | 32 | 8.5 | 9 | 2.6 |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * * |
| Asian Only | * | * | * | * * | * | * * | * | * | * | * * |
| AIAN Only | * | * | * | * * | * | * * | * | * | * | * * |
| 2 or More Races | * | * | * | * * | * | * * | * | * | * | * * |

Table O.1 Substance Use Disorder (continued)

| Domains | FE Sample (2015+2016) |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent |
| Not Pregnant Female Aged 15-44 |  |  |  |  |  |  |  |  |  |  |
| White Only | 4,138 | 9.2 | 4,153 | 9.3 | 4,144 | 9.2 | 4,050 | 9.1 | 4,227 | 9.4 |
| Black Only | 657 | 7.2 | 651 | 7.2 | 652 | 7.2 | 665 | 7.4 | 649 | 7.0 |
| NHOPI Only | 25 | 6.4 | 25 | 6.7 | 23 | 6.4 | 41 | 11.7 | 8 | 2.0 a |
| Asian Only | 177 | 4.1 | 176 | 4.1 | 170 | 4.0 | 212 | 5.0 | 142 | 3.3 |
| AIAN Only | 94 | 11.4 | 98 | 11.6 | 113 | 12.8 | 111 | 13.5 | 77 | 9.2 |
| 2 or More Races | 180 | 12.2 | 183 | 12.3 | 184 | 12.4 | 190 | 12.9 | 171 | 11.6 |
| Pregnancy by Hispanicity |  |  |  |  |  |  |  |  |  |  |
| Female Aged 15-443 |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 867 | 6.7 | 870 | 6.8 | 862 | 6.7 | 926 | 7.2 | 808 | 6.3 |
| Not Hispanic/Latino | 4,573 | 9.1 | 4,588 | 9.1 | 4,599 | 9.1 | 4,544 | 9.1 | 4,602 | 9.1 |
| Pregnant Female Aged 15-44 |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 25 | 5.3 | 29 | 6.0 | 30 | 5.9 | 28 | 5.9 | 23 | 4.7 |
| Not Hispanic/Latino | 143 | 8.0 | 142 | 7.8 | 144 | 8.0 | 173 | 9.5 | 113 | 6.4 |
| Not Pregnant Female Aged 15-44 |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 842 | 6.8 | 841 | 6.8 | 833 | 6.8 | 898 | 7.3 | 786 | 6.3 |
| Not Hispanic/Latino | 4,430 | 9.1 | 4,446 | 9.2 | 4,454 | 9.2 | 4,371 | 9.1 | 4,489 | 9.2 |

* = low precision; -- = not available; AIAN = American Indian or Alaska Native; FE = field enumeration; GQ = group quarters; NHOPI = Native Hawaiian or Other Pacific Islander; pop = population.
${ }^{1}$ Excludes those with unknown enrollment status.
${ }^{2}$ Other Persons include respondents aged 18 to 22 not enrolled in school, enrolled in college part time, enrolled in other grades either full or part time, or enrolled with no other information available.
${ }^{3}$ Excludes those with unknown pregnancy status.
${ }^{\text {a }}$ The difference between this estimate and the person sample estimate is statistically significant at the .05 level.


## Appendix P: 2015-2016 NSDUH - Weighted Annual Averages Past Year Specialty Substance Use Treatment - TXYRSPILAL

Table P. 1 Past Year Specialty Substance Use Treatment

| Domains | $\begin{gathered} \text { FE Sample } \\ (2015+2016) \\ \hline \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent |
| Age Group |  |  |  |  |  |  |  |  |  |  |
| 12+ | 2,287 | 0.9 | 2,298 | 0.9 | 2,255 | 0.8 | 2,346 | 0.9 | 2,229 | 0.8 |
| 12-17 | 85 | 0.3 | 87 | 0.4 a | 88 | 0.4 | 80 | 0.3 | 89 | 0.4 |
| 18+ | 2,203 | 0.9 | 2,211 | 0.9 | 2,167 | 0.9 | 2,266 | 0.9 | 2,140 | 0.9 |
| 18-25 | 400 | 1.2 | 400 | 1.2 | 401 | 1.2 | 417 | 1.2 | 383 | 1.1 |
| 26-49 | 1,305 | 1.3 | 1,293 | 1.3 | 1,275 | 1.3 | 1,330 | 1.3 | 1,280 | 1.3 |
| 50+ | 498 | 0.5 | 518 | 0.5 | 491 | 0.4 | 520 | 0.5 | 477 | 0.4 |
| Gender |  |  |  |  |  |  |  |  |  |  |
| Male | 1,453 | 1.1 | 1,479 | 1.1 | 1,433 | 1.1 | 1,528 | 1.2 | 1,378 | 1.1 |
| Female | 834 | 0.6 | 819 | 0.6 | 823 | 0.6 | 818 | 0.6 | 851 | 0.6 |
| Hispanicity |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 361 | 0.8 | 379 | 0.9 | 357 | 0.8 | 340 | 0.8 | 382 | 0.9 |
| Not Hispanic/Latino | 1,926 | 0.9 | 1,919 | 0.9 | 1,899 | 0.8 | 2,006 | 0.9 | 1,847 | 0.8 |
| Race |  |  |  |  |  |  |  |  |  |  |
| White Only | 1,778 | 0.8 | 1,769 | 0.8 | 1,740 | 0.8 | 1,768 | 0.8 | 1,789 | 0.9 |
| Black Only | 353 | 1.0 | 377 | 1.1 a | 358 | 1.0 | 377 | 1.1 | 329 | 1.0 |
| NHOPI Only | 9 | 0.7 | 9 | 0.7 | 8 | 0.6 | 14 | 1.3 | 4 | 0.3 |
| Asian Only | 37 | 0.2 | 35 | 0.2 | 37 | 0.3 | 53 | 0.4 | 21 | 0.1 |
| AIAN Only | 36 | 1.1 | 40 | 1.2 | 44 | 1.4 | 44 | 1.4 | 29 | 0.9 |
| 2 or More Races | 74 | 1.3 | 69 | 1.3 | 69 | 1.2 | 91 | 1.7 | 56 | 1.0 |
| Division |  |  |  |  |  |  |  |  |  |  |
| New England | 156 | 1.2 | 156 | 1.2 | 145 | 1.1 | 172 | 1.4 | 140 | 1.1 |
| Middle Atlantic | 354 | 1.0 | 354 | 1.0 | 339 | 1.0 | 336 | 1.0 | 371 | 1.1 |
| East North Central | 312 | 0.8 | 313 | 0.8 | 311 | 0.8 | 263 | 0.7 | 361 | 0.9 |
| West North Central | 156 | 0.9 | 167 | 1.0 a | 169 | 1.0 a | 140 | 0.8 | 172 | 1.0 |
| South Atlantic | 406 | 0.8 | 390 | 0.7 | 384 | 0.7 | 433 | 0.8 | 379 | 0.7 |
| East South Central | 153 | 1.0 | 152 | 1.0 | 151 | 1.0 | 185 | 1.2 | 122 | 0.8 |
| West South Central | 227 | 0.7 | 239 | 0.8 | 229 | 0.7 | 263 | 0.8 | 191 | 0.6 |
| Mountain | 158 | 0.8 | 161 | 0.8 | 164 | 0.8 | 158 | 0.8 | 158 | 0.8 |
| Pacific | 365 | 0.8 | 367 | 0.8 | 364 | 0.8 | 397 | 0.9 | 334 | 0.8 |

Table P. 1 Past Year Specialty Substance Use Treatment (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (2015+2016) \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total <br> (Numbers <br> in 1,000s) | Percent | Total <br> (Numbers <br> in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent |
| County Type |  |  |  |  |  |  |  |  |  |  |
| Large Metro | 1,218 | 0.8 | 1,244 | 0.8 | 1,224 | 0.8 | 1,199 | 0.8 | 1,238 | 0.8 |
| Small Metro, pop 250,000-1,000,000 | 519 | 0.9 | 525 | 0.9 | 498 | 0.9 | 565 | 1.0 | 473 | 0.9 |
| Small Metro, <250,000 population | 215 | 0.8 | 211 | 0.8 | 217 | 0.9 | 242 | 0.9 | 188 | 0.7 |
| Nonmetro, 20,000 or more urban pop | 140 | 0.9 | 129 | 0.9 | 127 | 0.9 | 142 | 0.9 | 139 | 0.9 |
| Nonmetro, 2,500-19,999 urban pop | 169 | 0.9 | 163 | 1.0 | 164 | 1.0 | 166 | 1.0 | 171 | 0.9 |
| Nonmetro, <2,500 urban pop | 26 | 0.6 | 25 | 0.7 | 25 | 0.7 | 33 | 0.7 | 20 | 0.5 |
| College Enrollment |  |  |  |  |  |  |  |  |  |  |
| Persons Aged 18 to $22^{1}$ | 205 | 1.0 | 207 | 1.0 | 211 | 1.0 a | 203 | 1.0 | 207 | 1.0 |
| Full-Time College Students | 37 | 0.5 | 37 | 0.5 | 38 | 0.5 a | 27 | 0.3 | 47 | 0.6 |
| Other Persons Aged 18 to $22^{2}$ | 168 | 1.3 | 169 | 1.3 | 173 | 1.3 | 175 | 1.3 | 160 | 1.2 |
| Pregnancy |  |  |  |  |  |  |  |  |  |  |
| Female Aged 15-44 ${ }^{3}$ | 586 | 0.9 | 576 | 0.9 | 586 | 0.9 | 605 | 1.0 | 568 | 0.9 |
| Pregnant Female Aged 15-44 | 32 | 1.4 | 32 | 1.4 | 32 | 1.4 | 35 | 1.5 | 28 | 1.2 |
| Not Pregnant Female Aged 15-44 | 555 | 0.9 | 544 | 0.9 | 554 | 0.9 | 570 | 0.9 | 540 | 0.9 |
| Division by Age Group |  |  |  |  |  |  |  |  |  |  |
| New England |  |  |  |  |  |  |  |  |  |  |
| 12+ | 156 | 1.2 | 156 | 1.2 | 145 | 1.1 | 172 | 1.4 | 140 | 1.1 |
| 12-17 | 3 | 0.2 | 3 | 0.2 a | 3 | 0.2 a | 4 | 0.4 | 1 | 0.1 |
| 18+ | 153 | 1.3 | 154 | 1.3 | 142 | 1.2 | 168 | 1.5 | 139 | 1.2 |
| 18-25 | 26 | 1.6 | 26 | 1.6 | 27 | 1.6 | 25 | 1.5 | 27 | 1.6 |
| 26-49 | 98 | 2.2 | 97 | 2.2 | 87 | 2.0 | 106 | 2.4 | 90 | 2.0 |
| 50+ | 29 | 0.5 | 31 | 0.6 | 28 | 0.5 | 36 | 0.7 | 23 | 0.4 |
| Middle Atlantic |  |  |  |  |  |  |  |  |  |  |
| 12+ | 354 | 1.0 | 354 | 1.0 | 339 | 1.0 | 336 | 1.0 | 371 | 1.1 |
| 12-17 | 7 | 0.2 | 7 | 0.2 | 7 | 0.2 | 6 | 0.2 | 8 | 0.3 |
| 18+ | 347 | 1.1 | 346 | 1.1 | 332 | 1.0 | 330 | 1.0 | 363 | 1.1 |
| 18-25 | 61 | 1.4 | 61 | 1.4 | 61 | 1.4 | 59 | 1.3 | 62 | 1.4 |
| 26-49 | 205 | 1.6 | 201 | 1.6 | 187 | 1.5 | 189 | 1.5 | 222 | 1.7 |
| 50+ | 81 | 0.5 | 84 | 0.6 | 84 | 0.6 | 82 | 0.6 | 80 | 0.5 |

Table P. 1 Past Year Specialty Substance Use Treatment (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (2015+2016) \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in $1,000 s$ ) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent |
| East North Central |  |  |  |  |  |  |  |  |  |  |
| 12+ | 312 | 0.8 | 313 | 0.8 | 311 | 0.8 | 263 | 0.7 | 361 | 0.9 |
| 12-17 | 17 | 0.5 | 16 | 0.4 | 16 | 0.4 | 23 | 0.6 | 10 | 0.3 |
| 18+ | 295 | 0.8 | 297 | 0.8 | 295 | 0.8 | 240 | 0.7 | 351 | 1.0 |
| 18-25 | 66 | 1.3 | 67 | 1.3 | 66 | 1.3 | 67 | 1.3 | 65 | 1.3 |
| 26-49 | 174 | 1.2 | 171 | 1.2 | 169 | 1.2 | 147 | 1.0 | 201 | 1.4 |
| 50+ | 56 | 0.3 | 58 | 0.4 | 59 | 0.4 | 27 | 0.2 | 85 | 0.5 |
| West North Central |  |  |  |  |  |  |  |  |  |  |
| 12+ | 156 | 0.9 | 167 | 1.0 a | 169 | 1.0 a | 140 | 0.8 | 172 | 1.0 |
| 12-17 | 12 | 0.7 | 12 | 0.7 | 12 | 0.7 | 13 | 0.8 | 11 | 0.7 |
| 18+ | 144 | 0.9 | 155 | 1.0 a | 158 | 1.0 a | 128 | 0.8 | 161 | 1.0 |
| 18-25 | 31 | 1.3 | 32 | 1.4 | 33 | 1.4 | 28 | 1.2 | 34 | 1.5 |
| 26-49 | 84 | 1.4 | 91 | 1.5 | 93 | 1.5 | 60 | 1.0 | 109 | 1.7 |
| 50+ | 29 | 0.4 | 32 | 0.4 | 32 | 0.4 a | 40 | 0.5 | 18 | 0.2 |
| South Atlantic |  |  |  |  |  |  |  |  |  |  |
| 12+ | 406 | 0.8 | 390 | 0.7 | 384 | 0.7 | 433 | 0.8 | 379 | 0.7 |
| 12-17 | 17 | 0.4 | 18 | 0.4 a | 18 | 0.4 | 18 | 0.4 | 17 | 0.4 |
| 18+ | 388 | 0.8 | 372 | 0.8 | 366 | 0.8 | 415 | 0.9 | 362 | 0.7 |
| 18-25 | 76 | 1.2 | 75 | 1.1 | 76 | 1.2 | 74 | 1.1 | 79 | 1.2 |
| 26-49 | 255 | 1.3 | 251 | 1.3 | 249 | 1.3 | 273 | 1.4 | 237 | 1.2 |
| 50+ | 57 | 0.3 | 46 | 0.2 | 41 | 0.2 | 68 | 0.3 | 46 | 0.2 |
| East South Central |  |  |  |  |  |  |  |  |  |  |
| 12+ | 153 | 1.0 | 152 | 1.0 | 151 | 1.0 | 185 | 1.2 | 122 | 0.8 |
| 12-17 | 1 | 0.1 | 2 | 0.1 | 2 | 0.1 | * | * | 3 | 0.2 * |
| 18+ | 152 | 1.1 | 150 | 1.1 | 149 | 1.0 | 185 | 1.3 | 120 | 0.8 |
| 18-25 | 27 | 1.3 | 29 | 1.4 | 27 | 1.3 | 34 | 1.7 | 20 | 1.0 |
| 26-49 | 107 | 1.9 | 101 | 1.8 | 102 | 1.8 | 132 | 2.3 | 82 | 1.5 |
| 50+ | 18 | 0.3 | 20 | 0.3 | 20 | 0.3 | 19 | 0.3 | 17 | 0.3 |
| West South Central |  |  |  |  |  |  |  |  |  |  |
| 12+ | 227 | 0.7 | 239 | 0.8 | 229 | 0.7 | 263 | 0.8 | 191 | 0.6 |
| 12-17 | 4 | 0.1 | 5 | 0.1 a | 7 | 0.2 | * | * | 8 | 0.3 * |
| 18+ | 223 | 0.8 | 234 | 0.8 | 222 | 0.8 | 263 | 0.9 | 183 | 0.6 |
| 18-25 | 34 | 0.8 | 31 | 0.7 | 30 | 0.7 | 35 | 0.8 | 32 | 0.7 |
| 26-49 | 98 | 0.8 | 95 | 0.8 | 100 | 0.8 | 111 | 0.9 | 84 | 0.7 |
| 50+ | 91 | 0.8 | 108 | 0.9 | 92 | 0.8 | 117 | 1.0 | 66 | 0.6 |

Table P. 1 Past Year Specialty Substance Use Treatment (continued)

| Domains | FE Sample$(2015+2016)$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total <br> (Numbers <br> in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent |
| Mountain |  |  |  |  |  |  |  |  |  |  |
| 12+ | 158 | 0.8 | 161 | 0.8 | 164 | 0.8 | 158 | 0.8 | 158 | 0.8 |
| 12-17 | 11 | 0.6 | 12 | 0.6 | 11 | 0.6 | 7 | 0.4 | 16 | 0.8 |
| 18+ | 147 | 0.8 | 149 | 0.8 | 153 | 0.9 | 151 | 0.9 | 142 | 0.8 |
| 18-25 | 31 | 1.2 | 31 | 1.2 | 32 | 1.2 | 36 | 1.4 | 26 | 1.0 |
| 26-49 | 89 | 1.2 | 90 | 1.2 | 91 | 1.3 | 88 | 1.2 | 91 | 1.2 |
| 50+ | 27 | 0.3 | 28 | 0.4 | 29 | 0.4 | 28 | 0.4 | 25 | 0.3 |
| Pacific |  |  |  |  |  |  |  |  |  |  |
| 12+ | 365 | 0.8 | 367 | 0.8 | 364 | 0.8 | 397 | 0.9 | 334 | 0.8 |
| 12-17 | 12 | 0.3 | 13 | 0.3 | 13 | 0.3 | 10 | 0.3 | 15 | 0.4 |
| 18+ | 353 | 0.9 | 354 | 0.9 | 351 | 0.9 | 387 | 1.0 | 319 | 0.8 |
| 18-25 | 49 | 0.8 | 48 | 0.8 | 49 | 0.9 | 59 | 1.0 | 38 | 0.7 |
| 26-49 | 194 | 1.1 | 196 | 1.2 | 196 | 1.2 | 225 | 1.3 | 164 | 1.0 |
| 50+ | 110 | 0.6 | 110 | 0.6 | 106 | 0.6 | 103 | 0.6 | 117 | 0.7 |
| Division by Hispanicity |  |  |  |  |  |  |  |  |  |  |
| New England |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 19 | 1.6 | 21 | 1.7 | 17 | 1.4 | 12 | 1.0 | 27 | 2.2 |
| Not Hispanic/Latino | 137 | 1.2 | 135 | 1.2 | 127 | 1.1 | 160 | 1.4 | 113 | 1.0 |
| Middle Atlantic |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 49 | 1.0 | 51 | 1.0 | 45 | 0.9 | 38 | 0.8 | 60 | 1.2 |
| Not Hispanic/Latino | 305 | 1.0 | 303 | 1.0 | 295 | 1.0 | 298 | 1.0 | 311 | 1.0 |
| East North Central |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 31 | 1.0 | 30 | 1.0 | 29 | 1.0 | 9 | 0.3 | 52 | 1.7 a |
| Not Hispanic/Latino | 282 | 0.8 | 283 | 0.8 | 282 | 0.8 | 254 | 0.7 | 309 | 0.9 |
| West North Central |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 4 | 0.5 | 3 | 0.3 | 3 | 0.3 | 6 | 0.6 | 3 | 0.3 |
| Not Hispanic/Latino | 152 | 0.9 | 164 | 1.0 a | 166 | 1.0 a | 134 | 0.8 | 169 | 1.0 |
| South Atlantic |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 28 | 0.4 | 31 | 0.5 | 25 | 0.4 | 49 | 0.7 | 7 | 0.1 a |
| Not Hispanic/Latino | 377 | 0.8 | 359 | 0.8 | 359 | 0.8 | 383 | 0.8 | 371 | 0.8 |
| East South Central |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 2 | 0.3 | * | * * | * | * * | * | * | 0 | 0.0 * |
| Not Hispanic/Latino | 152 | 1.0 | 149 | 1.0 | 151 | 1.0 | 181 | 1.2 | 122 | 0.8 |

Table P. 1 Past Year Specialty Substance Use Treatment (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (\mathbf{2 0 1 5 + 2 0 1 6}) \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in $1,000 s$ ) | Percent | Total (Numbers in 1,000s) | Percent |
| West South Central |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 55 | 0.6 | 69 | 0.8 | 65 | 0.7 | 67 | 0.8 | 43 | 0.5 |
| Not Hispanic/Latino | 172 | 0.7 | 170 | 0.7 | 164 | 0.7 | 196 | 0.9 | 148 | 0.6 |
| Mountain |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 30 | 0.7 | 30 | 0.7 | 30 | 0.7 | 31 | 0.7 | 28 | 0.6 |
| Not Hispanic/Latino | 129 | 0.9 | 131 | 0.9 | 134 | 0.9 | 128 | 0.9 | 130 | 0.9 |
| Pacific |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 143 | 1.1 | 143 | 1.1 | 143 | 1.1 | 125 | 1.0 | 161 | 1.2 |
| Not Hispanic/Latino | 222 | 0.7 | 224 | 0.7 | 221 | 0.7 | 272 | 0.9 | 173 | 0.6 |
| Division by Race |  |  |  |  |  |  |  |  |  |  |
| New England |  |  |  |  |  |  |  |  |  |  |
| White Only | 120 | 1.1 | 121 | 1.1 | 114 | 1.1 | 123 | 1.1 | 118 | 1.1 |
| Black Only | 27 | 3.0 | 27 | 2.9 | 22 | 2.4 | 37 | 4.1 | 17 | 1.9 |
| NHOPI Only | * | * | , | * * | * | * * | , | * | * | * * |
| Asian Only | 3 | 0.6 | 4 | 0.7 | 5 | 0.8 | * | * | * | * * |
| AIAN Only | * | * | * | * | * | * * | * | * | * | * * |
| 2 or More Races | 5 | 2.4 | 5 | 2.1 | 4 | 1.8 | * | * | * | * * |
| Middle Atlantic |  |  |  |  |  |  |  |  |  |  |
| White Only | 263 | 1.0 | 262 | 1.0 | 258 | 1.0 | 245 | 0.9 | 281 | 1.1 |
| Black Only | 80 | 1.6 | 81 | 1.6 | 71 | 1.4 | 83 | 1.6 | 76 | 1.5 |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * * |
| Asian Only | 2 | 0.1 | 2 | 0.1 | 2 | 0.1 | 1 | 0.1 | 3 | 0.1 |
| AIAN Only | 1 | 0.3 | 1 | 0.5 | 1 | 0.5 | 0 | 0.2 | * | * |
| 2 or More Races | 8 | 1.3 | 7 | 1.2 | 7 | 1.2 | 7 | 1.1 | 9 | 1.5 |
| East North Central |  |  |  |  |  |  |  |  |  |  |
| White Only | 246 | 0.8 | 244 | 0.8 | 242 | 0.7 | 211 | 0.6 | 281 | 0.9 |
| Black Only | 53 | 1.1 | 55 | 1.2 | 56 | 1.2 | 38 | 0.8 | 67 | 1.5 |
| NHOPI Only | * | * | * | * * | * | * * | , | * | * | * * |
| Asian Only | 2 | 0.1 | 2 | 0.2 | 2 | 0.1 | 3 | 0.3 | * | * |
| AIAN Only | * | * | * | * * | * | * * | * | * | * | * |
| 2 or More Races | 8 | 1.3 | 8 | 1.3 | 8 | 1.3 | 5 | 0.8 | 12 | 1.9 |

Table P. 1 Past Year Specialty Substance Use Treatment (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (2015+2016) \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total <br> (Numbers <br> in 1,000s) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in 1,000s) | Percent |
| West North Central |  |  |  |  |  |  |  |  |  |  |
| White Only | 120 | 0.8 | 124 | 0.8 | 123 | 0.8 | 129 | 0.8 | 112 | 0.7 |
| Black Only | 21 | 1.9 | 27 | 2.4 a | 26 | 2.3 | 7 | 0.6 | 35 | 3.1 a |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * * |
| Asian Only | * | * | * | * * | * | * * | * | * | * | * * |
| AIAN Only | 6 | 2.5 | * | * * | * | * * | 1 | 0.6 | * | * * |
| 2 or More Races | 9 | 3.0 | 9 | 3.0 | 8 | 2.8 | 3 | 1.0 | 15 | 4.9 |
| South Atlantic |  |  |  |  |  |  |  |  |  |  |
| White Only | 308 | 0.8 | 291 | 0.8 | 288 | 0.8 | 328 | 0.9 | 288 | 0.7 |
| Black Only | 90 | 0.8 | 94 | 0.8 a | 91 | 0.8 | 96 | 0.8 | 85 | 0.7 |
| NHOPI Only | 0 | 0.2 | 0 | 0.2 | 0 | 0.1 | - | * | * | * * |
| Asian Only | * | * | * | * * | * | * * | * | * | * | * * |
| AIAN Only | 1 | 0.4 | 2 | 0.6 | 1 | 0.3 | 2 | 0.5 | 1 | 0.2 |
| 2 or More Races | 6 | 0.6 | 3 | 0.4 | 3 | 0.4 | 7 | 0.8 | 5 | 0.5 |
| East South Central |  |  |  |  |  |  |  |  |  |  |
| White Only | 124 | 1.0 | 125 | 1.0 | 122 | 1.0 | 140 | 1.2 | 108 | 0.9 |
| Black Only | 17 | 0.5 | 18 | 0.6 | 17 | 0.6 | 22 | 0.7 | 11 | 0.3 |
| NHOPI Only | * | * | * | * * | , | * * | * | , | , | * * |
| Asian Only | * | * | * | * * | * | * * | * | * | * | * |
| AIAN Only | * | * | * | * * | * | * * | * | * | * | * * |
| 2 or More Races | * | * | * | * * | * | * * | * | * | * | * |
| West South Central |  |  |  |  |  |  |  |  |  |  |
| White Only | 167 | 0.7 | 170 | 0.7 | 165 | 0.7 | 170 | 0.7 | 163 | 0.7 |
| Black Only | 49 | 1.1 | 60 | 1.3 | 59 | 1.3 | 73 | 1.6 | 24 | 0.5 |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * * |
| Asian Only | * | * | * | * * | * | * * | * | * | * | * * |
| AIAN Only | 7 | 1.2 | 4 | 0.8 | * | * * | * | * | 2 | 0.3 |
| 2 or More Races | 1 | 0.2 | 1 | 0.2 | 1 | 0.2 | * | * | 2 | 0.3 * |
| Mountain |  |  |  |  |  |  |  |  |  |  |
| White Only | 143 | 0.8 | 143 | 0.8 | 143 | 0.8 | 140 | 0.8 | 146 | 0.9 |
| Black Only | 2 | 0.3 | 3 | 0.4 | 3 | 0.4 | 0 | 0.0 | 5 | 0.6 |
| NHOPI Only | 0 | 0.2 | 0 | 0.2 | 0 | 0.2 | * | , | , | * * |
| Asian Only | * | * | * | * * | * | * * | * | * | * | * |
| AIAN Only | 10 | 1.4 | 12 | 1.8 | 16 | 2.3 | 13 | 2.0 | 6 | 0.9 |
| 2 or More Races | 3 | 0.6 | 3 | 0.6 | 3 | 0.6 | 4 | 1.0 | 1 | 0.3 |

Table P. 1 Past Year Specialty Substance Use Treatment (continued)

| Domains | FE Sample$(2015+2016)$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in 1,000s) | Percent |
| Pacific |  |  |  |  |  |  |  |  |  |  |
| White Only | 287 | 0.9 | 289 | 0.9 | 285 | 0.9 | 282 | 0.9 | 293 | 0.9 |
| Black Only | 15 | 0.6 | 13 | 0.5 | 13 | 0.5 | 21 | 0.9 | 9 | 0.4 |
| NHOPI Only | 8 | 1.2 | 8 | 1.2 | 7 | 1.1 | * | * | 3 | 0.4 * |
| Asian Only | 19 | 0.3 | 19 | 0.3 | 19 | 0.3 | 28 | 0.5 | 11 | 0.2 |
| AIAN Only | 9 | 1.1 | 10 | 1.3 | 12 | 1.5 | 11 | 1.4 | 7 | 0.9 |
| 2 or More Races | 27 | 1.7 | 29 | 1.7 | 28 | 1.7 | 45 | 2.8 | 10 | 0.6 |
| County Type by Age Group |  |  |  |  |  |  |  |  |  |  |
| Large Metro |  |  |  |  |  |  |  |  |  |  |
| 12+ | 1,218 | 0.8 | 1,244 | 0.8 | 1,224 | 0.8 | 1,199 | 0.8 | 1,238 | 0.8 |
| 12-17 | 44 | 0.3 | 45 | 0.3 | 47 | 0.3 | 40 | 0.3 | 48 | 0.3 |
| 18+ | 1,174 | 0.9 | 1,199 | 0.9 | 1,177 | 0.8 | 1,158 | 0.9 | 1,190 | 0.9 |
| 18-25 | 222 | 1.1 | 223 | 1.1 | 226 | 1.1 | 240 | 1.2 | 204 | 1.1 |
| 26-49 | 668 | 1.1 | 683 | 1.1 | 667 | 1.1 | 645 | 1.1 | 692 | 1.2 |
| 50+ | 284 | 0.5 | 293 | 0.5 | 285 | 0.5 | 274 | 0.5 | 295 | 0.5 |
| Small Metro, pop 250,000-1,000,000 |  |  |  |  |  |  |  |  |  |  |
| 12+ | 519 | 0.9 | 525 | 0.9 | 498 | 0.9 | 565 | 1.0 | 473 | 0.9 |
| 12-17 | 17 | 0.3 | 18 | 0.3 a | 18 | 0.4 a | 19 | 0.4 | 16 | 0.3 |
| 18+ | 502 | 1.0 | 506 | 1.0 | 480 | 1.0 | 546 | 1.1 | 457 | 0.9 |
| 18-25 | 77 | 1.0 | 79 | 1.0 | 78 | 1.1 | 69 | 0.9 | 85 | 1.2 |
| 26-49 | 305 | 1.6 | 304 | 1.5 | 300 | 1.5 | 349 | 1.8 | 260 | 1.3 |
| 50+ | 120 | 0.5 | 124 | 0.5 | 102 | 0.4 | 127 | 0.5 | 113 | 0.5 |
| Small Metro, $<250,000$ population |  |  |  |  |  |  |  |  |  |  |
| 12+ | 215 | 0.8 | 211 | 0.8 | 217 | 0.9 | 242 | 0.9 | 188 | 0.7 |
| 12-17 | 6 | 0.3 | 6 | 0.3 | 6 | 0.3 | 5 | 0.2 | 6 | 0.3 |
| 18+ | 209 | 0.9 | 205 | 0.9 | 211 | 0.9 | 237 | 1.0 | 181 | 0.8 |
| 18-25 | 37 | 1.0 | 36 | 1.0 | 38 | 1.1 | 42 | 1.2 | 33 | 0.9 |
| 26-49 | 131 | 1.5 | 124 | 1.5 | 125 | 1.5 | 145 | 1.7 | 117 | 1.4 |
| 50+ | 41 | 0.4 | 45 | 0.4 a | 48 | 0.4 | 50 | 0.4 | 31 | 0.3 |

Table P. 1 Past Year Specialty Substance Use Treatment (continued)

| Domains | FE Sample (2015+2016) |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in 1,000s) | Percent |
| Nonmetro, 20,000 or more urban pop |  |  |  |  |  |  |  |  |  |  |
| 12+ | 140 | 0.9 | 129 | 0.9 | 127 | 0.9 | 142 | 0.9 | 139 | 0.9 |
| 12-17 | 8 | 0.5 | 8 | 0.5 | 8 | 0.6 | 7 | 0.5 | 9 | 0.6 |
| 18+ | 133 | 1.0 | 122 | 0.9 | 120 | 0.9 | 135 | 1.0 | 130 | 0.9 |
| 18-25 | 34 | 1.7 | 35 | 1.8 | 33 | 1.7 | 32 | 1.6 | 35 | 1.8 |
| 26-49 | 83 | 1.6 | 70 | 1.4 | 70 | 1.4 | 74 | 1.5 | 92 | 1.8 |
| 50+ | 16 | 0.2 | 16 | 0.2 | 16 | 0.2 | 29 | 0.4 | 3 | 0.1 |
| Nonmetro, 2,500-19,999 urban pop |  |  |  |  |  |  |  |  |  |  |
| $12+$ | 169 | 0.9 | 163 | 1.0 | 164 | 1.0 | 166 | 1.0 | 171 | 0.9 |
| 12-17 | 8 | 0.5 | 8 | 0.6 a | 8 | 0.6 a | 7 | 0.5 | 8 | 0.5 |
| 18+ | 161 | 1.0 | 155 | 1.0 | 157 | 1.1 | 159 | 1.0 | 163 | 0.9 |
| 18-25 | 22 | 1.1 | 19 | 1.0 | 18 | 1.0 | 27 | 1.4 | 17 | 0.8 |
| 26-49 | 102 | 1.8 | 97 | 1.9 | 99 | 2.0 | 92 | 1.8 | 112 | 1.8 |
| 50+ | 37 | 0.4 | 40 | 0.5 | 40 | 0.5 | 39 | 0.5 | 35 | 0.4 |
| Nonmetro, <2,500 urban pop |  |  |  |  |  |  |  |  |  |  |
| 12+ | 26 | 0.6 | 25 | 0.7 | 25 | 0.7 | 33 | 0.7 | 20 | 0.5 |
| 12-17 | 2 | 0.6 | 2 | 0.8 | 2 | 0.7 | 2 | 0.5 | 2 | 0.7 |
| 18+ | 24 | 0.6 | 23 | 0.7 | 23 | 0.7 | 31 | 0.7 | 17 | 0.5 |
| 18-25 | 8 | 2.0 | 8 | 2.7 a | 8 | 2.6 | 6 | 1.4 | 10 | 2.7 |
| 26-49 | 16 | 1.2 | 15 | 1.4 | 15 | 1.5 | 24 | 1.7 | 8 | 0.7 |
| 50+ | * | * | * | * * | * | * * | * | * | * | * * |
| County Type by Hispanicity |  |  |  |  |  |  |  |  |  |  |
| Large Metro |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 216 | 0.7 | 233 | 0.8 | 221 | 0.7 | 196 | 0.6 | 236 | 0.8 |
| Not Hispanic/Latino | 1,002 | 0.8 | 1,011 | 0.8 | 1,003 | 0.8 | 1,002 | 0.8 | 1,002 | 0.8 |
| Small Metro, pop 250,000-1,000,000 |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 83 | 0.9 | 83 | 0.9 | 73 | 0.9 | 70 | 0.8 | 96 | 1.1 |
| Not Hispanic/Latino | 436 | 0.9 | 442 | 0.9 | 425 | 0.9 | 495 | 1.0 | 377 | 0.8 |
| Small Metro, $<250,000$ population |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 30 | 1.1 | 31 | 1.1 | 32 | 1.2 | 31 | 1.2 | * | * * |
| Not Hispanic/Latino | 184 | 0.8 | 180 | 0.8 | 185 | 0.8 | 210 | 0.9 | 158 | 0.7 |
| Nonmetro, 20,000 or more urban pop |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 25 | 2.1 | 26 | 2.3 | 24 | 2.1 | 37 | 2.8 | 14 | 1.2 |
| Not Hispanic/Latino | 115 | 0.8 | 103 | 0.7 | 103 | 0.7 | 105 | 0.8 | 125 | 0.9 |

Table P. 1 Past Year Specialty Substance Use Treatment (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (2015+2016) \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\quad$ Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent |
| Nonmetro, 2,500-19,999 urban pop |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 5 | 0.5 | 5 | 0.6 | 5 | 0.6 | 5 | 0.6 | 5 | 0.5 |
| Not Hispanic/Latino | 164 | 1.0 | 158 | 1.0 | 159 | 1.0 | 161 | 1.0 | 166 | 0.9 |
| Nonmetro, $<2,500$ urban pop Hispanic/Latino | * | * | * | * | * | * | * | * | * | * |
| Not Hispanic/Latino | 25 | 0.6 | 24 | 0.7 | 24 | 0.7 | 33 | 0.7 | 18 | 0.5 |
| County Type by Race |  |  |  |  |  |  |  |  |  |  |
| Large Metro |  |  |  |  |  |  |  |  |  |  |
| White Only | 907 | 0.8 | 911 | 0.8 | 909 | 0.8 | 841 | 0.8 | 973 | 0.9 |
| Black Only | 241 | 1.1 | 260 | 1.1 | 244 | 1.1 | 256 | 1.1 | 226 | 1.0 |
| NHOPI Only | 6 | 0.7 | 6 | 0.7 | 6 | 0.7 | * | * | 1 | 0.1 |
| Asian Only | 23 | 0.2 | 23 | 0.2 | 23 | 0.2 | 34 | 0.3 | 13 | 0.1 |
| AIAN Only | 9 | 0.6 | 11 | 0.7 a | 10 | 0.6 | 13 | 0.8 | 5 | 0.4 |
| 2 or More Races | 32 | 1.1 | 33 | 1.1 | 32 | 1.0 | 43 | 1.5 | 20 | 0.7 |
| Small Metro, pop 250,000-1,000,000 |  |  |  |  |  |  |  |  |  |  |
| White Only | 407 | 0.9 | 412 | 0.9 | 387 | 0.9 | 423 | 0.9 | 391 | 0.9 |
| Black Only | 74 | 1.2 | 78 | 1.3 a | 75 | 1.3 | 91 | 1.5 | 56 | 1.0 |
| NHOPI Only | 3 | 0.9 | 3 | 1.0 | 2 | 0.8 | 2 | 0.9 | 3 | 1.0 |
| Asian Only | 7 | 0.3 | 8 | 0.4 | 8 | 0.4 | 9 | 0.4 | 5 | 0.3 |
| AIAN Only | 6 | 1.0 | 7 | 1.1 | 8 | 1.1 | 8 | 1.2 | 5 | 0.7 |
| 2 or More Races | 22 | 1.7 | 18 | 1.3 | 18 | 1.4 | 32 | 2.4 | 13 | 0.9 |
| Small Metro, <250,000 population |  |  |  |  |  |  |  |  |  |  |
| White Only | 180 | 0.8 | 178 | 0.8 | 180 | 0.8 | 213 | 1.0 | 147 | 0.7 |
| Black Only | 20 | 0.8 | 20 | 0.9 | 19 | 0.8 | 12 | 0.5 | 27 | 1.2 |
| NHOPI Only | * | * | * | * | * | * * | * | * | * | * |
| Asian Only | * | * | 4 | 0.7 * | * | * * | * | * | 3 | 0.4 * |
| AIAN Only | 3 | 1.2 | 4 | 1.3 | 8 | 2.0 | 3 | 0.9 | 4 | 1.5 |
| 2 or More Races | 5 | 1.0 | 5 | 1.0 | 5 | 1.1 | 4 | 0.8 | 7 | 1.3 |
| Nonmetro, 20,000 or more urban pop |  |  |  |  |  |  |  |  |  |  |
| White Only | 124 | 1.0 | 111 | 0.9 | 109 | 0.9 | 118 | 0.9 | 130 | 1.0 |
| Black Only | 7 | 0.5 | 7 | 0.5 | 7 | 0.6 | 9 | 0.8 | 5 | 0.4 |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * * |
| Asian Only | * | * | * | * * | * | * * | * | * | * | * * |
| AIAN Only | 5 | 2.0 | 7 | 2.5 | 7 | 2.7 | 7 | 3.2 | 4 | 1.1 |
| 2 or More Races | 4 | 1.1 | 4 | 1.3 | 4 | 1.4 | 7 | 1.6 | 0 | 0.1 |

Table P. 1 Past Year Specialty Substance Use Treatment (continued)

| Domains | FE Sample (2015+2016) |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent |
| Nonmetro, 2,500-19,999 urban pop |  |  |  |  |  |  |  |  |  |  |
| White Only | 139 | 0.9 | 137 | 0.9 | 135 | 1.0 | 144 | 1.0 | 134 | 0.8 |
| Black Only | 11 | 0.7 | 12 | 0.8 a | 12 | 0.8 | 9 | 0.6 | 14 | 0.7 |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * * |
| Asian Only | * | * | * | * * | * | * * | * | * | * | * * |
| AIAN Only | 9 | 2.5 | * | * * | * | * * | * | * | * | * * |
| 2 or More Races | 9 | 2.6 | 8 | 2.7 | 8 | 2.7 | * | * | 14 | 3.6 * |
| Nonmetro, <2,500 urban pop |  |  |  |  |  |  |  |  |  |  |
| White Only | 21 | 0.6 | 20 | 0.7 | 20 | 0.7 | 29 | 0.7 | 14 | 0.4 |
| Black Only | * | * | * | * * | * | * * | * | * | * | * * |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * * |
| Asian Only | * | * | * | * * | * | * * | * | * | * | * * |
| AIAN Only | 3 | 2.6 | 3 | 3.7 | * | * * | 3 | 3.0 | 3 | 2.3 |
| 2 or More Races | 2 | 1.7 | * | * * | * | * * | * | * | * | * * |
| College Enrollment by Gender |  |  |  |  |  |  |  |  |  |  |
| Persons Aged 18 to $22^{1}$ |  |  |  |  |  |  |  |  |  |  |
| Male | 127 | 1.2 | 129 | 1.2 | 130 | 1.2 | 115 | 1.1 | 139 | 1.3 |
| Female | 78 | 0.8 | 77 | 0.8 | 81 | 0.8 | 88 | 0.8 | 68 | 0.7 |
| Full-Time College Students |  |  |  |  |  |  |  |  |  |  |
| Male | 21 | 0.6 | 21 | 0.6 | 22 | 0.6 a | 9 | 0.2 | 34 | 0.9 a |
| Female | 16 | 0.4 | 16 | 0.4 | 16 | 0.4 | 19 | 0.5 | 13 | 0.3 |
| Other Persons Aged 18 to $22^{2}$ |  |  |  |  |  |  |  |  |  |  |
| Male | 106 | 1.5 | 108 | 1.5 | 108 | 1.5 | 107 | 1.5 | 105 | 1.4 |
| Female | 62 | 1.0 | 61 | 1.0 | 65 | 1.1 | 69 | 1.1 | 55 | 0.9 |
| Age Group by Gender |  |  |  |  |  |  |  |  |  |  |
| 12+ |  |  |  |  |  |  |  |  |  |  |
| Male | 1,453 | 1.1 | 1,479 | 1.1 | 1,433 | 1.1 | 1,528 | 1.2 | 1,378 | 1.1 |
| Female | 834 | 0.6 | 819 | 0.6 | 823 | 0.6 | 818 | 0.6 | 851 | 0.6 |
| 12-17 |  |  |  |  |  |  |  |  |  |  |
| Male | 49 | 0.4 | 50 | 0.4 | 50 | 0.4 | 44 | 0.3 | 54 | 0.4 |
| Female | 36 | 0.3 | 37 | 0.3 | 38 | 0.3 | 36 | 0.3 | 35 | 0.3 |
| 18+ |  |  |  |  |  |  |  |  |  |  |
| Male | 1,404 | 1.2 | 1,429 | 1.2 | 1,383 | 1.2 | 1,484 | 1.3 | 1,324 | 1.1 |
| Female | 799 | 0.6 | 782 | 0.6 | 785 | 0.6 | 782 | 0.6 | 816 | 0.6 |

Table P. 1 Past Year Specialty Substance Use Treatment (continued)

| Domains | FE Sample (2015+2016) |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent |
| 18-25 |  |  |  |  |  |  |  |  |  |  |
| Male | 257 | 1.5 | 257 | 1.5 | 253 | 1.5 | 266 | 1.5 | 247 | 1.4 |
| Female | 143 | 0.8 | 143 | 0.8 | 148 | 0.9 | 151 | 0.9 | 136 | 0.8 |
| 26-49 |  |  |  |  |  |  |  |  |  |  |
| Male | 830 | 1.7 | 830 | 1.7 | 806 | 1.7 | 852 | 1.8 | 808 | 1.7 |
| Female | 475 | 0.9 | 464 | 0.9 | 469 | 0.9 | 478 | 1.0 | 472 | 0.9 |
| 50+ |  |  |  |  |  |  |  |  |  |  |
| Male | 317 | 0.6 | 342 | 0.7 a | 324 | 0.6 | 366 | 0.7 | 269 | 0.5 |
| Female | 181 | 0.3 | 176 | 0.3 | 168 | 0.3 | 154 | 0.3 | 208 | 0.4 |
| Age Group by Race |  |  |  |  |  |  |  |  |  |  |
| 12+ |  |  |  |  |  |  |  |  |  |  |
| White Only | 1,778 | 0.8 | 1,769 | 0.8 | 1,740 | 0.8 | 1,768 | 0.8 | 1,789 | 0.9 |
| Black Only | 353 | 1.0 | 377 | 1.1 a | 358 | 1.0 | 377 | 1.1 | 329 | 1.0 |
| NHOPI Only | 9 | 0.7 | 9 | 0.7 | 8 | 0.6 | 14 | 1.3 | 4 | 0.3 |
| Asian Only | 37 | 0.2 | 35 | 0.2 | 37 | 0.3 | 53 | 0.4 | 21 | 0.1 |
| AIAN Only | 36 | 1.1 | 40 | 1.2 | 44 | 1.4 | 44 | 1.4 | 29 | 0.9 |
| 2 or More Races | 74 | 1.3 | 69 | 1.3 | 69 | 1.2 | 91 | 1.7 | 56 | 1.0 |
| 12-17 |  |  |  |  |  |  |  |  |  |  |
| White Only | 60 | 0.3 | 61 | 0.3 | 63 | 0.3 | 57 | 0.3 | 63 | 0.3 |
| Black Only | 12 | 0.3 | 13 | 0.4 | 13 | 0.3 | 10 | 0.3 | 14 | 0.4 |
| NHOPI Only | 1 | 0.5 | 1 | 0.6 | 1 | 0.5 | 1 | 0.6 | * | * * |
| Asian Only | 1 | 0.1 | 1 | 0.1 | 1 | 0.1 | 2 | 0.2 | 0 | 0.0 |
| AIAN Only | 1 | 0.3 | 1 | 0.4 | 2 | 0.4 | 2 | 0.4 | 1 | 0.2 |
| 2 or More Races | 9 | 1.0 | 9 | 1.0 | 9 | 1.0 | 8 | 0.9 | 10 | 1.1 |
| 18+ |  |  |  |  |  |  |  |  |  |  |
| White Only | 1,718 | 0.9 | 1,707 | 0.9 | 1,677 | 0.9 | 1,711 | 0.9 | 1,726 | 0.9 |
| Black Only | 341 | 1.1 | 364 | 1.2 a | 345 | 1.1 | 366 | 1.2 | 315 | 1.0 |
| NHOPI Only | 8 | 0.7 | 8 | 0.7 | 7 | 0.6 | 13 | 1.4 | 3 | 0.2 |
| Asian Only | 36 | 0.3 | 34 | 0.2 | 36 | 0.3 | 51 | 0.4 | 21 | 0.2 |
| AIAN Only | 35 | 1.3 | 38 | 1.4 | 42 | 1.5 | 42 | 1.5 | 28 | 1.0 |
| 2 or More Races | 64 | 1.4 | 60 | 1.3 | 60 | 1.3 | 83 | 1.8 | 46 | 1.0 |

Table P. 1 Past Year Specialty Substance Use Treatment (continued)

| Domains | FE Sample$(2015+2016)$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in $1,000 s$ ) | Percent |
| 18-25 |  |  |  |  |  |  |  |  |  |  |
| White Only | 320 | 1.3 | 318 | 1.2 | 319 | 1.2 | 346 | 1.3 | 294 | 1.2 |
| Black Only | 40 | 0.7 | 41 | 0.8 | 40 | 0.8 | 36 | 0.7 | 43 | 0.8 |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * * |
| Asian Only | 15 | 0.7 | 16 | 0.7 | 17 | 0.8 | 13 | 0.6 | 17 | 0.8 |
| AIAN Only | 8 | 1.5 | 8 | 1.6 | 8 | 1.4 | 5 | 0.9 | 12 | 2.2 |
| 2 or More Races | 15 | 1.5 | 15 | 1.6 | 16 | 1.6 | 13 | 1.3 | 17 | 1.8 |
| 26-49 |  |  |  |  |  |  |  |  |  |  |
| White Only | 1,056 | 1.4 | 1,041 | 1.4 | 1,038 | 1.4 | 1,029 | 1.4 | 1,083 | 1.4 |
| Black Only | 166 | 1.3 | 172 | 1.3 | 156 | 1.2 | 185 | 1.4 | 147 | 1.1 |
| NHOPI Only | 6 | 1.2 | 6 | 1.2 | 5 | 1.1 | * | * | 3 | $0.5 *$ |
| Asian Only | 17 | 0.3 | 15 | 0.2 | 17 | 0.2 | 31 | 0.5 | 3 | 0.0 |
| AIAN Only | 25 | 1.9 | 28 | 2.0 | 30 | 2.2 | 37 | 2.7 | 14 | 1.0 |
| 2 or More Races | 34 | 1.8 | 31 | 1.6 | 30 | 1.6 | 38 | 2.1 | 29 | 1.5 |
| 50+ |  |  |  |  |  |  |  |  |  |  |
| White Only | 342 | 0.4 | 348 | 0.4 | 321 | 0.4 | 335 | 0.4 | 349 | 0.4 |
| Black Only | 135 | 1.1 | 150 | 1.3 | 149 | 1.3 | 145 | 1.2 | 125 | 1.0 |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * * |
| Asian Only | 3 | 0.1 | 3 | 0.1 | 3 | 0.1 | 7 | 0.1 | * | * * |
| AIAN Only | 2 | 0.2 | 2 | 0.3 | * | * * | 1 | 0.1 | 3 | 0.3 |
| 2 or More Races | * | * | * | * * | * | * * | * | * | * | * * |
| Age Group by Hispanicity |  |  |  |  |  |  |  |  |  |  |
| 12+ |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 361 | 0.8 | 379 | 0.9 | 357 | 0.8 | 340 | 0.8 | 382 | 0.9 |
| Not Hispanic/Latino | 1,926 | 0.9 | 1,919 | 0.9 | 1,899 | 0.8 | 2,006 | 0.9 | 1,847 | 0.8 |
| 12-17 |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 13 | 0.2 | 13 | 0.2 | 13 | 0.2 | 8 | 0.1 | 17 | 0.3 |
| Not Hispanic/Latino | 72 | 0.4 | 74 | 0.4 | 75 | 0.4 | 72 | 0.4 | 72 | 0.4 |
| 18+ |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 348 | 0.9 | 366 | 1.0 | 343 | 0.9 | 331 | 0.9 | 365 | 0.9 |
| Not Hispanic/Latino | 1,854 | 0.9 | 1,845 | 0.9 | 1,824 | 0.9 | 1,934 | 0.9 | 1,774 | 0.9 |
| 18-25 |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 57 | 0.8 | 59 | 0.8 | 57 | 0.8 | 73 | 1.0 | 41 | 0.5 |
| Not Hispanic/Latino | 343 | 1.3 | 341 | 1.3 | 345 | 1.3 | 344 | 1.3 | 343 | 1.3 |

Table P. 1 Past Year Specialty Substance Use Treatment (continued)

| Domains | FE Sample (2015+2016) |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in 1,000s) | Percent |
| 26-49 |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 184 | 0.9 | 187 | 1.0 | 174 | 0.9 | 137 | 0.7 | 230 | 1.2 |
| Not Hispanic/Latino | 1,121 | 1.4 | 1,106 | 1.4 | 1,101 | 1.4 | 1,192 | 1.5 | 1,050 | 1.3 |
| 50+ |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 108 | 1.0 | 120 | 1.1 | 112 | 1.0 | 121 | 1.1 | 95 | 0.8 |
| Not Hispanic/Latino | 390 | 0.4 | 398 | 0.4 | 379 | 0.4 | 399 | 0.4 | 382 | 0.4 |
| Pregnancy by Age Group |  |  |  |  |  |  |  |  |  |  |
| Female Aged 15-44 ${ }^{3}$ |  |  |  |  |  |  |  |  |  |  |
| 15-17 | 32 | 0.5 | 33 | 0.5 | 32 | 0.5 | 34 | 0.6 | 29 | 0.5 |
| 18-25 | 140 | 0.8 | 140 | 0.8 | 145 | 0.8 | 151 | 0.9 | 130 | 0.8 |
| 26-44 | 414 | 1.0 | 403 | 1.0 | 409 | 1.0 | 420 | 1.1 | 409 | 1.0 |
| Pregnant Female Aged 15-44 |  |  |  |  |  |  |  |  |  |  |
| 15-17 | * | * | * | * * | * | * * | * | * | * | * * |
| 18-25 | 10 | 1.4 | 10 | 1.3 | 10 | 1.3 | 16 | 1.9 | 5 | 0.8 |
| 26-44 | 19 | 1.3 | 20 | 1.3 | 20 | 1.3 | 17 | 1.2 | 22 | 1.4 |
| Not Pregnant Female Aged 15-44 |  |  |  |  |  |  |  |  |  |  |
| 15-17 | 30 | 0.5 | 31 | 0.5 | 30 | 0.5 | 32 | 0.5 | 28 | 0.4 |
| 18-25 | 130 | 0.8 | 130 | 0.8 | 135 | 0.8 | 135 | 0.8 | 125 | 0.8 |
| 26-44 | 395 | 1.0 | 383 | 1.0 | 389 | 1.0 | 403 | 1.1 | 387 | 1.0 |
| Pregnancy by Race |  |  |  |  |  |  |  |  |  |  |
| Female Aged 15-44 ${ }^{3}$ |  |  |  |  |  |  |  |  |  |  |
| White Only | 485 | 1.0 | 473 | 1.0 | 477 | 1.0 | 496 | 1.1 | 473 | 1.0 |
| Black Only | 56 | 0.6 | 56 | 0.6 | 58 | 0.6 | 64 | 0.7 | 48 | 0.5 |
| NHOPI Only | 3 | 0.7 | 3 | 0.7 | 2 | 0.6 | * | * | * | * * |
| Asian Only | 9 | 0.2 | 7 | 0.2 | 9 | 0.2 | 13 | 0.3 | 6 | 0.1 |
| AIAN Only | 13 | 1.5 | 16 | 1.8 a | 20 | 2.2 | 10 | 1.2 | 15 | 1.8 |
| 2 or More Races | 21 | 1.4 | 20 | 1.3 | 19 | 1.2 | 18 | 1.2 | 24 | 1.6 |
| Pregnant Female Aged 15-44 |  |  |  |  |  |  |  |  |  |  |
| White Only | 24 | 1.4 | 24 | 1.4 | 25 | 1.5 | 29 | 1.7 | 20 | 1.2 |
| Black Only | 6 | 1.6 | 6 | 1.6 | 6 | 1.6 | 6 | 1.5 | 5 | 1.6 |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * * |
| Asian Only | * | * | * | * * | * | * * | * | * | * | * * |
| AIAN Only | * | * | * | * * | * | * * | * | * | * | * * |
| 2 or More Races | * | * | * | * * | * | * * | * | * | * | * * |

Table P. 1 Past Year Specialty Substance Use Treatment (continued)

| Domains | FE Sample (2015+2016) |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in 1,000s) | Percent |
| Not Pregnant Female Aged 15-44 |  |  |  |  |  |  |  |  |  |  |
| White Only | 460 | 1.0 | 449 | 1.0 | 453 | 1.0 | 467 | 1.0 | 454 | 1.0 |
| Black Only | 51 | 0.6 | 51 | 0.6 | 52 | 0.6 | 59 | 0.7 | 43 | 0.5 |
| NHOPI Only | 3 | 0.7 | 3 | 0.8 | 2 | 0.6 | * | * | * | * * |
| Asian Only | 9 | 0.2 | 7 | 0.2 | 9 | 0.2 | 13 | 0.3 | 6 | 0.1 |
| AIAN Only | 12 | 1.4 | 15 | 1.8 a | 20 | 2.2 | 10 | 1.2 | 14 | 1.6 |
| 2 or More Races | 20 | 1.4 | 20 | 1.3 | 18 | 1.2 | 18 | 1.2 | 22 | 1.5 |
| Pregnancy by Hispanicity |  |  |  |  |  |  |  |  |  |  |
| Female Aged 15-44 ${ }^{3}$ |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 55 | 0.4 | 56 | 0.4 | 57 | 0.4 | 57 | 0.4 | 52 | 0.4 |
| Not Hispanic/Latino | 532 | 1.1 | 519 | 1.0 | 529 | 1.0 | 548 | 1.1 | 515 | 1.0 |
| Pregnant Female Aged 15-44 |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 3 | 0.5 | 3 | 0.5 | 3 | 0.5 | 5 | 1.1 | * | * * |
| Not Hispanic/Latino | 29 | 1.6 | 29 | 1.6 | 30 | 1.6 | 30 | 1.6 | 28 | 1.6 |
| Not Pregnant Female Aged 15-44 |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 52 | 0.4 | 54 | 0.4 | 54 | 0.4 a | 52 | 0.4 | 52 | 0.4 |
| Not Hispanic/Latino | 503 | 1.0 | 491 | 1.0 | 499 | 1.0 | 518 | 1.1 | 487 | 1.0 |

* = low precision; -- = not available; AIAN = American Indian or Alaska Native; FE = field enumeration; GQ = group quarters; NHOPI = Native Hawaiian or Other Pacific Islander; pop = population.
${ }^{1}$ Excludes those with unknown enrollment status.
${ }^{2}$ Other Persons include respondents aged 18 to 22 not enrolled in school, enrolled in college part time, enrolled in other grades either full or part time, or enrolled with no other information available.
${ }^{3}$ Excludes those with unknown pregnancy status.
${ }^{a}$ The difference between this estimate and the person sample estimate is statistically significant at the .05 level.


## Appendix Q: 2015-2016 NSDUH - Weighted Annual Averages Past Year MDE in Youths (Aged 12 to 17) - YMDEYR2

Table Q. 1 Past Year MDE in Youths (Aged 12 to 17)


Table Q. 1 Past Year MDE in Youths (Aged 12 to 17) (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (2015+2016) \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in 1,000 s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent |
| County Type |  |  |  |  |  |  |  |  |  |  |
| Large Metro | 1,713 | 12.5 | 1,745 | 12.5 | 1,769 | 12.6 | 1,698 | 12.4 | 1,728 | 12.7 |
| Small Metro, pop 250,000-1,000,000 | 661 | 12.7 | 668 | 12.9 | 648 | 12.8 | 657 | 12.5 | 664 | 13.0 |
| Small Metro, <250,000 population | 295 | 13.9 | 291 | 13.7 | 292 | 13.8 | 301 | 14.0 | 288 | 13.8 |
| Nonmetro, 20,000 or more urban pop | 166 | 12.0 | 157 | 11.5 | 159 | 11.8 | 164 | 11.8 | 169 | 12.2 |
| Nonmetro, 2,500-19,999 urban pop | 190 | 12.5 | 174 | 12.5 | 168 | 12.6 | 170 | 12.2 | 210 | 12.8 |
| Nonmetro, <2,500 urban pop | 35 | 10.5 | 29 | 10.7 | 29 | 10.9 | 40 | 11.2 | 30 | 9.6 |
| College Enrollment |  |  |  |  |  |  |  |  |  |  |
| Persons Aged 18 to $22^{1}$ | -- | -- | -- | -- -- | -- | -- | -- | -- | -- | -- -- |
| Full-Time College Students | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| Other Persons Aged 18 to $22^{2}$ | -- | -- | -- | -- -- | -- | - | -- | -- | -- | -- -- |
| Pregnancy |  |  |  |  |  |  |  |  |  |  |
| Female Aged 15-17 ${ }^{3}$ | 1,458 | 23.7 | 1,457 | 23.8 | 1,456 | 23.7 | 1,441 | 23.6 | 1,474 | 23.7 |
| Pregnant Female Aged 15-17 |  | * | * | * * | * | * * | * | * | * | * * |
| Not Pregnant Female Aged 15-17 | 1,455 | 23.8 | 1,454 | 23.9 | 1,453 | 23.9 | 1,439 | 23.8 | 1,471 | 23.8 |
| Division by Age Group |  |  |  |  |  |  |  |  |  |  |
| New England |  |  |  |  |  |  |  |  |  |  |
| 12+ | -- | -- | -- | -- | -- | -- -- | -- | -- | -- | -- -- |
| 12-17 | 151 | 14.4 | 153 | 14.7 | 153 | 14.6 | 145 | 13.8 | 156 | 15.0 |
| 18+ | -- | - | -- | -- | -- | -- -- | -- | -- | -- | -- -- |
| 18-25 | -- | -- | -- | -- - | -- | -- -- | -- | -- | -- | -- -- |
| 26-49 | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 50+ | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | - -- |
| Middle Atlantic |  |  |  |  |  |  |  |  |  |  |
| 12+ | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 12-17 | 342 | 11.6 | 342 | 11.6 | 341 | 11.5 | 328 | 11.1 | 356 | 12.1 |
| 18+ | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 18-25 | -- | -- | -- | -- -- | -- | -- -- | -- | - | -- | -- |
| 26-49 | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 50+ | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |

Table Q. 1 Past Year MDE in Youths (Aged 12 to 17) (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (2015+2016) \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in $1,000 s$ ) | Percent |
| East North Central |  |  |  |  |  |  |  |  |  |  |
| 12+ | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 12-17 | 511 | 14.2 | 511 | 14.2 | 510 | 14.2 | 535 | 14.8 | 487 | 13.6 |
| 18+ | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 18-25 | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- |
| 26-49 | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 50+ | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| West North Central |  |  |  |  |  |  |  |  |  |  |
| $12+$ | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 12-17 | 220 | 13.7 | 214 | 13.3 | 215 | 13.4 | 196 | 12.3 | 243 | 15.1 |
| 18+ | -- | , | , | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 18-25 | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- |
| 26-49 | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 50+ | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| South Atlantic |  |  |  |  |  |  |  |  |  |  |
| 12+ | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 12-17 | 553 | 12.1 | 555 | 12.1 | 550 | 12.0 | 543 | 11.8 | 562 | 12.3 |
| $18+$ | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 18-25 | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 26-49 | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| $50+$ | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| East South Central |  |  |  |  |  |  |  |  |  |  |
| 12+ | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 12-17 | 149 | 10.5 | 149 | 10.4 | 148 | 10.4 | 144 | 10.1 | 154 | 10.8 |
| 18+ | -- | -- | -- | -- -- | 路 | -- -- | -- | - | -- | -- -- |
| 18-25 | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 26-49 | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| $50+$ | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| West South Central |  |  |  |  |  |  |  |  |  |  |
| 12+ | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 12-17 | 377 | 11.6 | 383 | 11.8 | 396 | 12.2 | 377 | 11.7 | 377 | 11.6 |
| 18+ | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- |
| 18-25 | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 26-49 | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 50+ | -- | -- | -- | -- -- | -- |  | -- | -- | -- | -- -- |

Table Q. 1 Past Year MDE in Youths (Aged 12 to 17) (continued)

| Domains | FE Sample$(2015+2016)$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent |
| Mountain |  |  |  |  |  |  |  |  |  |  |
| 12+ | -- | -- | -- | -- - | -- | - -- | -- | -- | -- | -- -- |
| 12-17 | 247 | 13.2 | 247 | 13.2 | 247 | 13.2 | 256 | 13.7 | 239 | 12.7 |
| 18+ | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 18-25 | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 26-49 | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 50+ | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- |
| Pacific |  |  |  |  |  |  |  |  |  |  |
| 12+ | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 12-17 | 511 | 13.0 | 510 | 13.0 | 507 | 12.9 | 507 | 12.9 | 514 | 13.2 |
| 18+ | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 18-25 | -- | -- | -- | -- -- | -- | -- | -- | -- | -- | -- -- |
| 26-49 | -- | -- | -- | -- -- | -- | - -- | -- | -- | -- | -- -- |
| ${ }_{\text {50+ }}^{50}$ ( | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | - -- |
| Division by Hispanicity |  |  |  |  |  |  |  |  |  |  |
| New England |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 24 | 15.9 | 25 | 16.6 | 25 | 16.5 | 24 | 16.4 | * | * * |
| Not Hispanic/Latino | 127 | 14.2 | 128 | 14.3 | 128 | 14.3 | 121 | 13.4 | 132 | 14.9 |
| Middle Atlantic |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 72 | 12.9 | 71 | 12.8 | 71 | 12.8 | 74 | 13.3 | 70 | 12.4 |
| Not Hispanic/Latino | 271 | 11.3 | 270 | 11.3 | 270 | 11.2 | 255 | 10.6 | 286 | 12.0 |
| East North Central |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 61 | 14.2 | 61 | 14.1 | 61 | 14.1 | 62 | 14.5 | 61 | 13.9 |
| Not Hispanic/Latino | 450 | 14.2 | 450 | 14.2 | 449 | 14.2 | 473 | 14.8 | 426 | 13.5 |
| West North Central |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 28 | 18.8 | 27 | 18.1 | 28 | 18.4 | 22 | 15.1 | 34 | 22.5 |
| Not Hispanic/Latino | 192 | 13.2 | 187 | 12.8 | 188 | 12.9 | 174 | 12.0 | 209 | 14.4 |
| South Atlantic |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 92 | 12.0 | 95 | 12.3 a | 94 | 12.2 | 86 | 11.3 | 98 | 12.7 |
| Not Hispanic/Latino | 460 | 12.1 | 460 | 12.1 | 456 | 12.0 | 457 | 11.9 | 464 | 12.2 |
| East South Central |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 7 | 9.2 | 8 | 9.8 | 8 | 10.1 | * | * | * | * * |
| Not Hispanic/Latino | 142 | 10.5 | 141 | 10.5 | 140 | 10.4 | 135 | 10.0 | 149 | 11.1 |

Table Q. 1 Past Year MDE in Youths (Aged 12 to 17) (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (\mathbf{2 0 1 5}+2016) \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in $1,000 s$ ) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0}$ s) | Percent | Total (Numbers in $\mathbf{1 , 0 0 0 s}$ ) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in 1,000s) | Percent |
| West South Central |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 146 | 12.1 | 150 | 12.4 | 146 | 12.2 | 153 | 12.8 | 139 | 11.5 |
| Not Hispanic/Latino | 231 | 11.4 | 233 | 11.5 | 250 | 12.3 | 224 | 11.0 | 237 | 11.7 |
| Mountain |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 77 | 12.5 | 78 | 12.6 | 78 | 12.6 | 74 | 11.9 | 81 | 13.0 |
| Not Hispanic/Latino | 170 | 13.6 | 169 | 13.6 | 169 | 13.5 | 182 | 14.6 | 158 | 12.6 |
| Pacific |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 208 | 12.4 | 209 | 12.5 | 208 | 12.4 | 205 | 12.2 | 211 | 12.5 |
| Not Hispanic/Latino | 303 | 13.5 | 301 | 13.5 | 299 | 13.4 | 302 | 13.4 | 304 | 13.6 |
| Division by Race |  |  |  |  |  |  |  |  |  |  |
| New England |  |  |  |  |  |  |  |  |  |  |
| White Only | 123 | 14.5 | 125 | 14.8 a | 124 | 14.7 | 117 | 13.8 | 129 | 15.3 |
| Black Only | * | * | * | * * | * | * * | 9 | 8.8 | , | * * |
| NHOPI Only | * | * | * | * * | * | * * |  | . | * | * * |
| Asian Only | * | * | * | * * | * | * * | * | * | * | * |
| AIAN Only | * | * | * | * * | * | * * | * | * | * | * * |
| 2 or More Races | * | * | 4 | 17.0 * | 4 | 16.7 * | * | * | * | * |
| Middle Atlantic |  |  |  |  |  |  |  |  |  |  |
| White Only | 246 | 11.6 | 247 | 11.7 | 246 | 11.7 | 247 | 11.7 | 244 | 11.6 |
| Black Only | 48 | 9.5 | 48 | 9.4 | 48 | 9.4 | 42 | 8.1 | 55 | 11.0 |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * * |
| Asian Only | 24 | 12.8 | 23 | 12.3 | 23 | 12.3 | * | * | * | * * |
| AIAN Only | 5 | 18.2 | 5 | 18.1 | 5 | 18.1 | * | * | * | * |
| 2 or More Races | 17 | 16.4 | 16 | 15.9 | 16 | 15.8 | * | * | 17 | 17.7 * |
| East North Central |  |  |  |  |  |  |  |  |  |  |
| White Only | 427 | 15.2 | 427 | 15.2 | 425 | 15.1 | 441 | 15.6 | 413 | 14.7 |
| Black Only | 48 | 9.5 | 49 | 9.7 | 49 | 9.7 | 59 | 11.7 | 37 | 7.4 |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * * |
| Asian Only | 11 | 8.7 | 11 | 8.8 | 11 | 8.9 | * | * | * | * |
| AIAN Only | 2 | 9.3 | 2 | 7.4 a | 2 | 7.2 a | * | * | * | * * |
| 2 or More Races | 21 | 18.2 | 21 | 18.4 | 21 | 18.5 | * | * | 21 | 17.1 * |

Table Q. 1 Past Year MDE in Youths (Aged 12 to 17) (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (2015+2016) \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total <br> (Numbers <br> in 1,000s) | Percent | Total <br> (Numbers <br> in 1,000s) | Percent | Total <br> (Numbers <br> in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent |
| West North Central |  |  |  |  |  |  |  |  |  |  |
| White Only | 189 | 14.3 | 183 | 13.8 | 183 | 13.8 | 161 | 12.3 | 216 | 16.3 a |
| Black Only | 10 | 7.6 | 9 | 6.6 | 9 | 6.6 | 12 | 8.9 | * | * * |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * * |
| Asian Only | * | * | * | * * | * | * * | * | * | * | * * |
| AIAN Only | * | * | * | * * | * | * * | * | * | * | * * |
| 2 or More Races | 6 | 11.9 | 6 | 12.5 | 6 | 13.4 | * | * | * | * * |
| South Atlantic |  |  |  |  |  |  |  |  |  |  |
| White Only | 405 | 13.6 | 410 | 13.8 | 408 | 13.7 | 395 | 13.2 | 415 | 14.0 |
| Black Only | 104 | 8.6 | 103 | 8.5 | 102 | 8.5 | 102 | 8.5 | 105 | 8.8 |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * * |
| Asian Only | 14 | 7.0 | 15 | 7.4 | 15 | 7.3 | * | * | * | * |
| AIAN Only | * | * | 2 | 5.6 * | 2 | 5.7 * | 2 | 6.9 | * | * |
| 2 or More Races | 24 | 16.9 | 23 | 15.4 | 20 | 13.9 a | 21 | 16.6 | 27 | 17.2 |
| East South Central |  |  |  |  |  |  |  |  |  |  |
| White Only | 117 | 11.5 | 119 | 11.7 | 119 | 11.7 | 111 | 10.9 | 123 | 12.1 |
| Black Only | 26 | 7.8 | 26 | 7.7 | 26 | 7.6 | 26 | 7.4 | 27 | 8.2 |
| NHOPI Only | * | * | * | * * | , | * * | , | * | , |  |
| Asian Only | * | * | * | * * | * | * * | * | * | * | * * |
| AIAN Only | * | * | * | * * | * | * * | * | * | * | * * |
| 2 or More Races | * | * | * | * * | * | * * | * | * | * | * |
| West South Central |  |  |  |  |  |  |  |  |  |  |
| White Only | 300 | 12.4 | 304 | 12.6 | 307 | 12.7 | 300 | 12.5 | 300 | 12.4 |
| Black Only | 47 | 9.1 | 47 | 9.2 | 48 | 9.3 | 43 | 8.2 | 52 | 10.1 |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * * |
| Asian Only | * | * | * | * * | * | * * | * | * | * | * * |
| AIAN Only | 9 | 13.1 | 10 | 12.6 | 6 | 8.3 | * | * | * | * * |
| 2 or More Races | 16 | 16.0 | 18 | 18.8 a | * | * * | 19 | 16.6 | * | * * |
| Mountain |  |  |  |  |  |  |  |  |  |  |
| White Only | 199 | 12.8 | 201 | 12.9 | 201 | 13.0 | 208 | 13.4 | 189 | 12.2 |
| Black Only | * | * | 13 | 15.0 * | 13 | 14.6 * | * | * | * | * * |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * * |
| Asian Only | * | * | * | * * | * | * * | * | * | * | * * |
| AIAN Only | 6 | 7.8 | 6 | 8.5 | 6 | 7.9 | * | * | 3 | 4.3 * |
| 2 or More Races | 14 | 18.3 | 13 | 16.8 | 12 | 16.3 a | 14 | 18.4 | 13 | 18.1 |

Table Q. 1 Past Year MDE in Youths (Aged 12 to 17) (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (2015+2016) \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total <br> (Numbers <br> in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total <br> (Numbers <br> in 1,000s) | Percent |
| Pacific |  |  |  |  |  |  |  |  |  |  |
| White Only | 374 | 13.2 | 372 | 13.2 | 370 | 13.1 | 373 | 13.1 | 375 | 13.3 |
| Black Only | 26 | 11.0 | 26 | 11.2 | 26 | 11.1 | 30 | 12.8 | 22 | 9.3 |
| NHOPI Only | 7 | 10.4 | 7 | 11.5 | 7 | 11.1 | * | * | * | * |
| Asian Only | 58 | 13.5 | 58 | 13.3 | 56 | 13.0 | 51 | 11.9 | 66 | 15.1 |
| AIAN Only | 15 | 14.4 | 15 | 14.6 | 14 | 13.8 | 14 | 13.0 | 15 | 16.0 |
| 2 or More Races | 31 | 12.2 | 33 | 12.5 a | 33 | 12.7 a | 34 | 13.4 | 29 | 11.1 |
| County Type by Age Group |  |  |  |  |  |  |  |  |  |  |
| Large Metro |  |  |  |  |  |  |  |  |  |  |
| $12+$ | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 12-17 | 1,713 | 12.5 | 1,745 | 12.5 | 1,769 | 12.6 | 1,698 | 12.4 | 1,728 | 12.7 |
| 18+ | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 18-25 | -- | -- | -- | -- -- | -- | -- | -- | -- | -- | -- -- |
| 26-49 | -- | -- | -- | -- -- | -- | -- | -- | -- | -- | -- -- |
| 50+ | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- |
| Small Metro, pop 250,000-1,000,000 |  |  |  |  |  |  |  |  |  |  |
| 12+ | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 12-17 | 661 | 12.7 | 668 | 12.9 | 648 | 12.8 | 657 | 12.5 | 664 | 13.0 |
| 18+ | - | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- |
| 18-25 | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 26-49 | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| $50+$ | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- |
| Small Metro, <250,000 population |  |  |  |  |  |  |  |  |  |  |
| 12+ | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 12-17 | 295 | 13.9 | 291 | 13.7 | 292 | 13.8 | 301 | 14.0 | 288 | 13.8 |
| 18+ | - | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 18-25 | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 26-49 | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| $50+\square$ | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |

(continued)

Table Q. 1 Past Year MDE in Youths (Aged 12 to 17) (continued)


Table Q. 1 Past Year MDE in Youths (Aged 12 to 17) (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (2015+2016) \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total <br> (Numbers <br> in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total <br> (Numbers <br> in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent |
| Nonmetro, 2,500-19,999 urban pop |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 18 | 13.6 | 14 | 13.0 | 15 | 14.0 | * | * | 25 | 15.0 * |
| Not Hispanic/Latino | 172 | 12.4 | 160 | 12.5 | 154 | 12.5 | 159 | 12.3 | 185 | 12.6 |
| Nonmetro, $<2,500$ urban pop Hispanic/Latino | * | * | * | * * | * | * * | * | * | * | * * |
| Not Hispanic/Latino | 27 | 8.9 | 22 | 9.2 | 23 | 9.5 | 29 | 9.0 | 25 | 8.9 |
| County Type by Race |  |  |  |  |  |  |  |  |  |  |
| Large Metro |  |  |  |  |  |  |  |  |  |  |
| White Only | 1,263 | 13.2 | 1,297 | 13.3 | 1,307 | 13.3 | 1,233 | 12.9 | 1,294 | 13.5 |
| Black Only | 219 | 9.3 | 218 | 9.2 | 219 | 9.1 | 225 | 9.4 | 213 | 9.2 |
| NHOPI Only | 14 | 12.9 | 14 | 13.5 | 14 | 13.3 | * | * | * | * |
| Asian Only | 112 | 11.1 | 113 | 11.1 | 115 | 11.2 | 101 | 10.3 | 123 | 11.8 |
| AIAN Only | 24 | 12.2 | 24 | 12.0 | 24 | 10.6 a | 24 | 12.2 | 23 | 12.3 |
| 2 or More Races | 81 | 17.3 | 80 | 16.6 a | 90 | 18.0 | 96 | 19.7 | 66 | 14.6 |
| Small Metro, pop 250,000-1,000,000 |  |  |  |  |  |  |  |  |  |  |
| White Only | 536 | 13.5 | 544 | 13.6 | 528 | 13.5 | 542 | 13.4 | 530 | 13.5 |
| Black Only | 63 | 9.4 | 62 | 9.4 | 61 | 9.4 | 58 | 8.7 | 68 | 10.2 |
| NHOPI Only | * | * | * | * * | * | * | * | * | * | * |
| Asian Only | 18 | 9.3 | 17 | 9.0 | 17 | 9.3 | 16 | 8.2 | 20 | 10.4 |
| AIAN Only | 8 | 11.8 | 9 | 12.4 | 10 | 13.5 | * | * | 8 | 12.2 |
| 2 or More Races | 32 | 14.2 | 32 | 14.1 | 29 | 13.2 | 28 | 13.5 | 35 | 14.7 |
| Small Metro, <250,000 population |  |  |  |  |  |  |  |  |  |  |
| White Only | 244 | 14.3 | 243 | 14.3 | 242 | 14.4 | 258 | 14.8 | 230 | 13.8 |
| Black Only | 22 | 8.7 | 21 | 8.3 | 21 | 8.7 | 22 | 8.3 | 22 | 9.2 |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * * |
| Asian Only | * | * | * | * * | * | * * | * | * | * | * * |
| AIAN Only | * | * | * | * * | * | * * | * | * | * | * * |
| 2 or More Races | 14 | 16.1 | 14 | 16.0 | 14 | 16.1 | 9 | 10.6 | 20 | 20.8 |
| Nonmetro, 20,000 or more urban pop |  |  |  |  |  |  |  |  |  |  |
| White Only | 141 | 12.6 | 129 | 11.8 a | 135 | 12.2 | 139 | 12.5 | 143 | 12.7 |
| Black Only | 16 | 10.8 | 17 | 11.6 a | 16 | 11.4 | 16 | 11.3 | * | * * |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * * |
| Asian Only | * | * | * | * * | * | * * | * | * | * | * * |
| AIAN Only | 3 | 9.5 | * | * * | * | * * | * | * | * | * |
| 2 or More Races | 5 | 8.5 | 5 | 9.2 | 5 | 8.9 | * | * | * | * * |

Table Q. 1 Past Year MDE in Youths (Aged 12 to 17) (continued)

| Domains | $\begin{gathered} \text { FE Sample } \\ (2015+2016) \end{gathered}$ |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total <br> (Numbers <br> in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total <br> (Numbers <br> in 1,000s) | Percent |
| Nonmetro, 2,500-19,999 urban pop |  |  |  |  |  |  |  |  |  |  |
| White Only | 163 | 13.2 | 149 | 13.1 | 147 | 13.2 | 146 | 12.6 | 179 | 13.6 |
| Black Only | 16 | 9.0 | 15 | 9.1 | 15 | 9.3 | 13 | 8.4 | 19 | 9.5 |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * * |
| Asian Only | * | * | * | * * | * | * * | * | * | * | * * |
| AIAN Only | * | * | * | * * | * | * * | * | * | * | * * |
| 2 or More Races | 3 | 6.7 | 3 | 8.2 | * | * * | * | * | * | * * |
| Nonmetro, $<2,500$ urban pop |  |  |  |  |  |  |  |  |  |  |
| White Only | 32 | 11.2 | 26 | 11.1 | 26 | 11.1 | 36 | 11.6 | 28 | 10.8 |
| Black Only | * |  | * | * * | * | * * | * | * | * | * * |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * * |
| Asian Only | * | * | * | * * | * | * * | * | * | * | * * |
| AIAN Only | * | * | * | * * | * | * * | * | * | * | * * |
| 2 or More Races | * | * | * | * * | * | * * | * | * | * | * * |
| College Enrollment by Gender |  |  |  |  |  |  |  |  |  |  |
| Persons Aged 18 to $22^{1}$ |  |  |  |  |  |  |  |  |  |  |
| Male | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- |
| Female | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- |
| Full-Time College Students |  |  |  |  |  |  |  |  |  |  |
| Male | -- | -- | -- | -- -- | -- | -- | -- | -- | -- | -- |
| Female | -- | -- | -- | -- -- | -- | -- -- | - | -- | -- | -- -- |
| Other Persons Aged 18 to $22^{2}$ |  |  |  |  |  |  |  |  |  |  |
| Male | -- | -- | -- | -- -- | -- | -- | -- | -- | -- | -- |
| Female | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| Age Group by Gender |  |  |  |  |  |  |  |  |  |  |
| 12+ |  |  |  |  |  |  |  |  |  |  |
| Male | -- | -- | -- | -- -- | -- | -- | -- | -- | -- | -- |
| Female | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |
| 12-17 |  |  |  |  |  |  |  |  |  |  |
| Male | 755 | 6.1 | 753 | 6.1 | 760 | 6.1 | 725 | 5.8 | 786 | 6.4 |
| Female | 2,305 | 19.4 | 2,311 | 19.5 | 2,306 | 19.4 | 2,306 | 19.5 | 2,303 | 19.4 |
| 18+ |  |  |  |  |  |  |  |  |  |  |
| Male | -- | -- | -- | -- -- | -- | -- | -- | -- | -- | -- -- |
| Female | -- | -- | -- | -- -- | -- | -- -- | -- | -- | -- | -- -- |

Table Q. 1 Past Year MDE in Youths (Aged 12 to 17) (continued)


Table Q. 1 Past Year MDE in Youths (Aged 12 to 17) (continued)

(continued)

Table Q. 1 Past Year MDE in Youths (Aged 12 to 17) (continued)


Table Q. 1 Past Year MDE in Youths (Aged 12 to 17) (continued)

| Domains | FE Sample (2015+2016) |  | Subsample 1. Sample Excluding DescriptionBased Addresses |  | Subsample 2. Sample Excluding GQ, AIAN Tribal Areas, and Description-Based Addresses |  | 2015 NSDUH |  | 2016 NSDUH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in 1,000s) | Percent | Total (Numbers in $1,000 \mathrm{~s}$ ) | Percent | Total (Numbers in 1,000s) | Percent |
| Not Pregnant Female Aged 15-17 |  |  |  |  |  |  |  |  |  |  |
| White Only | 1,145 | 25.7 | 1,146 | 25.8 | 1,140 | 25.7 | 1,145 | 25.9 | 1,145 | 25.5 |
| Black Only | 149 | 15.9 | 147 | 15.8 | 148 | 16.0 | 135 | 14.4 | 162 | 17.4 |
| NHOPI Only | * | * | * | * * | * | * * | * | * | * | * * |
| Asian Only | 65 | 17.6 | 64 | 17.5 | 62 | 17.2 | 58 | 17.2 | 71 | 18.0 |
| AIAN Only | 25 | 25.2 | 23 | 22.7 | 23 | 22.4 | * | * | 24 | 23.4 * |
| 2 or More Races | 63 | 30.3 | 64 | 30.6 | 70 | 32.7 | 64 | 31.1 | 63 | 29.5 |
| Pregnancy by Hispanicity |  |  |  |  |  |  |  |  |  |  |
| Female Aged 15-173 |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 305 | 22.3 | 308 | 22.6 | 306 | 22.4 | 324 | 23.7 | 287 | 20.8 |
| Not Hispanic/Latino | 1,152 | 24.1 | 1,149 | 24.1 | 1,150 | 24.1 | 1,118 | 23.6 | 1,187 | 24.6 |
| Pregnant Female Aged 15-17 |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | * | * | * | * * | * | * * | * | * | * | * * |
| Not Hispanic/Latino | * | * | * | * * | * | * * | * | * | * | * * |
| Not Pregnant Female Aged 15-17 |  |  |  |  |  |  |  |  |  |  |
| Hispanic/Latino | 305 | 22.5 | 307 | 22.9 | 306 | 22.7 | 324 | 24.0 | 287 | 21.1 |
| Not Hispanic/Latino | 1,150 | 24.2 | 1,147 | 24.2 | 1,147 | 24.2 | 1,115 | 23.7 | 1,184 | 24.6 |

* = low precision; -- = not available; AIAN = American Indian or Alaska Native; FE = field enumeration; GQ = group quarters; NHOPI = Native Hawaiian or Other Pacific Islander; pop = population.
${ }^{1}$ Excludes those with unknown enrollment status.
${ }^{2}$ Other Persons include respondents aged 18 to 22 not enrolled in school, enrolled in college part time, enrolled in other grades either full or part time, or enrolled with no other information available.
${ }^{3}$ Excludes those with unknown pregnancy status.
${ }^{a}$ The difference between this estimate and the person sample estimate is statistically significant at the .05 level.

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[^0]:    ${ }^{1}$ Vendors have varying access to the CDS. For the purposes of this report, the vendor-licensed list is referred to as the "ABS frame," and the USPS list is referred to as the "CDS." More information on vendor licenses and the differences between the ABS frame and the CDS may be found in Section 4.4.1.

[^1]:    ${ }^{2}$ In summary, the HOI technique states that, if a DU is selected and an FI observes any new or missed DUs between the selected DU and the DU appearing immediately after the selection on the counting and listing form, all new or missed dwellings falling in this interval will be selected. If a large number of new or missed DUs are encountered (greater than 10), a sample of the new or missing DUs is selected, and the sample weight is adjusted accordingly.
    ${ }^{3}$ A "large difference" includes a whole apartment building or a new subdivision not listed; a missed floor, missed wing, or other groups of units missed within a multiunit building; a GQs' structure not listed; or missed DUs in a GQs' structure. When working GQs, FIs check with managers or other knowledgeable persons to determine if the listing is accurate. Discrepancies are reported to sampling staff; if confirmed, units are added to the sample.
    ${ }^{4}$ Alternative enhancement methods are available but were not used in either of the MLFS. For more information on alternative approaches, see Section 4.6.
    ${ }_{5}^{5}$ As noted previously, the HOI is no longer being implemented on NSDUH.

[^2]:    ${ }^{6}$ Net coverage was estimated as the number of geocodable DUs on the ABS frame divided by the total number of DUs in the segment as estimated by Claritas in 2007 (Iannacchione et al., 2012). For more discussion on net coverage calculations, see Section 4.1. Claritas is a market research firm headquartered in Ithaca, New York (see https://www.claritas.com/ ${ }^{(\boldsymbol{J}}$ ). Formerly, Claritas was affiliated with Nielsen Holdings, from which they became independent in January 2017.

[^3]:    ${ }^{7}$ A locatable mailing address has a street name and number, unit number if appropriate, city name, state name or abbreviation, and ZIP Code.

[^4]:    ${ }^{8}$ Implementation of the CHUM interval specifies that an FI first face a sampled DU, then proceed clockwise around the block, without crossing a street, to find the next DU.
    ${ }^{9}$ CHUM training procedures and materials have since been improved.
    $\underline{10}$ In summary, "seeding" involves deleting a certain number of ABS addresses from the ABS list within sampled CHUM intervals as a way to monitor whether FIs are correctly implementing the CHUM. In addition to being able to determine when FIs are not implementing the CHUM, the process encourages compliance because FIs are told about the seeding process during training (Iannacchione et al., 2012).

[^5]:    ${ }^{11}$ A complete list of filter criteria is unknown, but they include items such as "have a complete city-style address" (e.g., street number, street name, city, state, and ZIP Code).

[^6]:    12 For budget reasons, nonrespondents were moved from CAPI to a mail and web mixed mode design halfway through data collection. The response rates and case counts referenced here are for those attempted and completed in CAPI.
    ${ }^{13}$ A TEA code indicates the type of geography and FE methods conducted in the field by the U.S. Census Bureau in the last decennial census. A TEA code of "1" indicates mailout/mailback, a geography with good mailing address coverage (Johanson, Scheu, \& Wechter, 2011).

[^7]:    ${ }^{14}$ Some literature defines the overcoverage rate as $\mathrm{O} / \mathrm{F}$, the percentage of the frame not in the target population. The definition $\mathrm{O} / \mathrm{P}$ is consistent with Kish (1965) and with the net coverage rate formula.

[^8]:    ABS = address-based sampling; GQ = group quarter; $\mathrm{HU}=$ housing unit; NCS = National Children's Study; PSU = primary sampling unit; SSU $=$ second stage unit.
    ${ }^{1}$ The match rate is the proportion of addresses on the ABS frame that matched to an address on the control frame.

[^9]:    15 The net coverage rate was calculated as the number of active and locatable mailing addresses on the ABS frame divided by the total number of housing units or occupied housing units found in the 2006 ACS, respectively.
    ${ }^{16}$ The net coverage rate was calculated as the percent of addresses found on the ABS frame that could be matched to the field enumerated frame.
    ${ }^{17}$ Only two vendors, Valassis (formerly ADVO) and CIS, have national CDS licenses (McMichael, 2015).

[^10]:    ${ }^{18}$ Regardless of technique, frame enhancement is conducted only in segments for which the coverage rate is estimated to be below a predefined acceptable limit. More information on best practices for defining this limit can be found in Section 4.7.

[^11]:    $\underline{19}$ The variables that were significant at the 5 percent level were being a college graduate, being above 200 percent of the federal poverty threshold, and living in GQs. Variables that reached significance at the 10 percent level were being 100 to 199 percent of the federal poverty threshold, receiving treatment for illicit drugs in the past year, and having a family income of less than $\$ 20,000$.

[^12]:    ${ }^{20}$ Some studies also adjust for eligibility of unknown-eligibility cases, but that is not an issue with NSDUH, where all occupied DUs are assumed to be eligible.

[^13]:    ${ }^{22}$ Scenario 2 could be further split into scenarios 2 a and 2 b . Under scenario 2 a , enhancement would be implemented in the last month of the previous quarter (e.g., December field enhancement for quarter 1), whereas it would be implemented 4 months prior to data collection (e.g., September field enhancement for quarter 1) under scenario 2 b . Scenario 2 b allows more flexibility for field staff and sampling statisticians to minimize the risk of competing tasks or mistakes. All other benefits and challenges would be similar across these two options, so they have been grouped together for this discussion.

[^14]:    ${ }^{23}$ A question remains in the screening instrument to conduct HOI within an address (i.e., to identify additional DUs on the property). This procedure does not require a path of travel and is not affected by CHUM.

[^15]:    ${ }^{24}$ Section 6.1 outlines three scenarios for frame enhancement, but ultimately determines scenario 2 to be undesirable. Therefore, only scenarios 1 and 3 are discussed here.

[^16]:    ABS = address-based sampling; $\mathrm{FE}=$ field enumeration; $\mathrm{FI}=$ field interviewer; $\mathrm{FS}=$ filed supervisor; GPS = Global Positioning System; GQs = group quarters; NSDUH = National Survey on Drug Use and Health; S\&I = screening and interviewing.

[^17]:    ${ }^{25}$ Please see Section 4.5.2 (Group Quarters) for more information on the IPEDS frame. Other GQs such as homeless shelters, rooming or boarding houses, migratory worker camps, and halfway houses may not have a suitable supplemental frame source and may need to be field enumerated assuming these areas can be classified as such during frame construction.

[^18]:    ${ }^{26}$ A poststratification adjustment was implemented for each subsample. The process of poststratification adjustment was as follows: (1) ANALWT, as constructed for the 2015 and 2016 NSDUH data files, was used as the starting point. (2) Poststratification was conducted using the same set of variables used in the 2015 and 2016 NSDUH poststratification adjustment for developing ANALWT. The complete variable list can be found in 2015 National Survey on Drug Use and Health: Person-Level Sampling Weight Calibration (Section 11 in Methodological Resource Book). (3) The control total for each variable was the average of population estimates for the 2015 and 2016 NSDUH. (4) Nine model groups corresponding to the nine census divisions were created. (5) The ABS bias analysis weights were the product of ANALWT and the poststratification adjustment factor. The same quality control checks were performed as for developing ANALWT.

[^19]:    ${ }^{27}$ The relative change among significantly different estimates of marijuana use within the past month is the only exception to this statement. While Subsample 1 produced more significant differences when compared with the FE Sample, the differences were generally smaller than the significant difference identified between Subsample 2 and the FE Sample.

[^20]:    ${ }^{28}$ Hybrid ABS implies that FE would occur in areas with low coverage, frame enhancement may occur in areas with middling coverage, and the Computerized Delivery Sequence (CDS) file would be used in areas with high coverage. However, geocoding error and some undercoverage will remain in areas where only the CDS is used.

[^21]:    (continued)

[^22]:    (continued)

