POST-ELECTION VOTING SURVEYS QUANT LEO

TECHNICAL REPORT



Methodology

his report describes sampling, editing, weighting and imputation methodologies for the 2018 Quantitative Post-Election Voting Survey of Local Election Officials (Quant PEVS-LEO). The report is divided into four parts: a section describing the background and administration of the 2018 Quant PEVS-LEO, including its relationship to the U.S. Election Assistance Commission (EAC)'s Election Administration and Voting Survey (EAVS); a section describing the design of the Quant PEVS-LEO; a section describing the weighting

methodology; and finally, a section explaining the data editing and imputation processes, variance calculation, and estimation. Appendix A displays the imputed national estimates for each of the 2018 Quant PEVS-LEO questions.

1.1 // EAVS and Quant PEVS-LEO Legislative Responsibility

In 2018, the Federal Voting Assistance Program (FVAP) continued its collaboration with the EAC to collect Congressionally-mandated quantitative data from state and local election officials through the 2018 EAVS. EAVS satisfies the EAC's requirements under the *Help America Vote Act* (*HAVA*)¹ to serve as a clearinghouse of election data nationwide. EAVS sections related to voter registration and the *Uniformed and Overseas Citizens Absentee Voting Act* (*UOCAVA*) voting allow states to satisfy their data reporting requirements established by the National Voter Registration Act (NVRA)², and *UOCAVA*³. Section 703(a) of *HAVA* amended section 102 of *UOCAVA* to add the requirement that each state must report certain election data to the EAC no more than 90 days after each Federal election. The data is to include the number of absentee ballots transmitted to absent Uniformed Services voters and overseas voters for the election and the number of those ballots that

¹ https://www.eac.gov/about/help-america-vote-act/

² https://www.justice.gov/crt/about-national-voter-registration-act

³ https://www.fvap.gov/info/laws/UOCAVA

were returned. In 2013, the EAC and FVAP entered into a Memorandum of Understanding (MOU) to establish a joint survey effort for 2014 that enables both agencies to meet their core requirements while reducing the overall burden on election officials. As a result of this successful interagency initiative, FVAP and the EAC now issue a single survey which includes FVAP's *UOCAVA* related survey questions from the original 2012 Quant PEVS-LEO as part of Section B in the EAC's EAVS. EAC engaged Fors Marsh Group (FMG) to help administer and analyze the 2018 EAVS and FVAP asked FMG to conduct the imputations necessary to create Section B state and national estimates.

1.2 // Survey Design

The EAC has conducted EAVS since 2004, with 2018 as the eighth administration of the survey. EAVS asks all 50 states, the District of Columbia and four U.S. territories—American Samoa, Guam, Puerto Rico, and the Virgin Islands—to provide data about the methods in which U.S. citizens participated in each Federal election. EAVS collects information on "ballots cast, voter registration, overseas and military voting, Election Day activities, voting technology, and other important issues," (EAC, 2018).

Specifically, the EAVS is divided into six sections:

- A. Voter Registration
- B. UOCAVA
- C. Domestic Civilian Absentee Ballots
- D. Election Administration
- E. Provisional Ballots
- F. Election Day Activities

For FVAP's reporting needs, Section B is the only section necessary for FVAP's program needs and is considered in this technical report, for simplicity's sake, the "2018 Quant PEVS-LEO". FVAP continued in 2018 to work with EAC to consolidate these Section B questions in the EAVS. After combining EAVS and Quant PEVS-LEO in 2014, Section B contained questions that were redundant and, in places, the question language was not clear and concise; thus in 2016, in order to streamline and improve Section B, FVAP began working with The Council of State Governments' (CSG) Overseas Voting Initiative to create a working group consisting of state and local election officials. This group identified redundant questions in Section B and the wording issues associated with several questions. No changes were made to the survey instrument itself between 2014 and 2016, but additions and edits were made to the Supplemental Instruction Manual (SIM) to reflect the suggestions of the Section B Working Group. Nine questions were identified as being redundant, and four

questions contained subitems that asked for data not collected by most states. The SIM instructed states to skip these 13 questions and their 62 subitems, and the items were "grayed out" in the data templates. As updated, SIM language sought to 1) define *UOCAVA* status more clearly, 2) clarify what "transmit" means when discussing "transmitted ballots" and 3) clarify the meaning of the phrase "returned and submitted for counting" in specific questions and the SIM.

For 2018, the recommendations from the Section B Working Group supported by FVAP, CSG, and the Overseas Voter Initiative (OVI) were fully implemented. Several questions were fully removed from the survey in 2018, including questions on the number of ballots transmitted, returned, and counted before and after the 45-day deadline. Instead, jurisdictions were asked to report items by *UOCAVA* voter type and by mode, which created some new subitems within questions. The questions were also reordered to better follow the process of transmitting and receiving *UOCAVA* ballots at the jurisdictional level. All Federal Write-In Absentee Ballot (FWAB) questions were moved to the end of Section B, and the instructions were clarified that FWABs should not be reported with other *UOCAVA* ballots. The instructions on what should be considered a "returned ballot" were clarified. The number of questions that allowed "other" as a response was reduced, resulting in renumbering for many Section B questions in the 2018 survey.⁴

1.3 // Sample Design and Selection

a. Target Population

The 2018 Quant PEVS-LEO is a census (via EAVS) designed to represent all voting jurisdictions in all 50 states, the District of Columbia and four U.S. territories. The population contained 6,460 voting jurisdictions identified by the EAC.

b. Sampling Frame

The sampling unit was the voting jurisdiction. Voting jurisdictions are typically counties, but were defined differently from state to state. For example, the states of Alaska and Maine are each considered to be one voting jurisdiction when reporting *UOCAVA* data, whereas Michigan, Wisconsin, and some states in New England define voting jurisdiction by individual townships. When accounting for states that only report as one jurisdiction (i.e., Alaska, Maine), it was determined that there are 6,460 unique reporting *UOCAVA* voting jurisdictions.

⁴ The 2018 EAVS survey instrument is available on the EAC website and can be found at:

https://www.eac.gov/assets/1/6/2018_EAC_Election_Administration_and_Voting_Survey_Instrument.pdf

c. Sample Design

All voting jurisdictions were selected (i.e., probability of selection equals 1). However, due to historically known issues of jurisdiction nonresponse and non-negligible missing data rates, it was determined that the survey would require imputation and weighting methodologies to account for missingness. Researchers identified a critical value (response to B5a, the total number of *UOCAVA* ballots transmitted for the 2018 election) that could act as a stratifying variable to split the population into homogenous groups of respondents. The 2018 Quant PEVS-LEO population was split into eight groups based on responses to B5a. Not all jurisdictions responded to the survey, however, and the critical question had missing data. For the purpose of assigning jurisdictions to one of the groups, researchers imputed for the missing B5a value with previous iterations of the EAVS using the 2014 data (the most recent federal midterm election). Jurisdictions without data for both 2014 and 2018 were dropped from the target population. Four jurisdictions (approximately 0.1 percent) were excluded from the population for this reason.⁵ An additional 21 jurisdictions had missing data for the critical item and were all resolved with prior data (approximately .3 percent).

Strata definitions were taken from the 2014 Quant PEVS-LEO. The strata definitions (and their distribution) are shown in Table 1. Stratum 1 indicates that 1,877 jurisdictions responded as not transmitting a single *UOCAVA* ballot; as such, much of their subsequent responses (regarding the specifics of the *UOCAVA* ballots they transmitted) would typically be "0." It is also important to point out that 4,323 of the 6,456 jurisdictions (67.0 percent) transmitted 10 ballots or fewer in total.

| Stratum Number | UOCAVA Transmitted Ballots | Total | Percent |
|----------------|----------------------------|-------|---------|
| 1 | 0 | 1,877 | 29.07 |
| 2 | 1 to 10 | 2,446 | 37.89 |
| 3 | 11 to 30 | 947 | 14.67 |
| 4 | 31 to 100 | 604 | 9.36 |
| 5 | 101 to 500 | 372 | 5.76 |
| 6 | 501 to 1,000 | 85 | 1.32 |
| 7 | 1,001 to 5,000 | 104 | 1.61 |
| 8 | 5,001 or more | 21 | 0.33 |
| | Total | 6,456 | 100 |

Table 1: Stratification Based on UOCAVA Transmitted Ballots

d. Survey Administration

The 2018 EAVS—including the Section B questions that comprise the 2018 Quant PEVS-LEO—began administration preceding the 2018 General Election. States and territories were asked to complete and submit the

⁵ Previous EAVS survey data are available from the EAC website at www.eac.gov.

2018 EAVS by February 1, 2019. Completed surveys were received by EAC and distributed to FMG via an online survey template and Microsoft Excel files throughout the submission period. FMG analyzed the survey returns for data quality and had a working relationship with EAC to address data issues by asking specific states to edit or clarify their submitted data. States then had two weeks to review and correct their submissions and certify their state's 2018 EAVS data submission. The final EAVS data certification deadline was March 1, 2019 though some states did not complete certification until early April 2019.

1.4 // Weighting

a. Case Dispositions

Final case dispositions for weighting were determined using information from the returned EAVS. A jurisdiction was considered to be a complete eligible respondent if it provided enough information about the number of absentee ballots transmitted to *UOCAVA* voters. Specifically, a jurisdiction needed to provide data that met at least one of the following three criteria:

- B5a (*UOCAVA* ballots transmitted)
- Both subparts of B5a (B5b: Uniformed Service transmitted ballots; B5c: non-military transmitted ballots)
- All questions related to ballot transmission mode (B6a: transmitted by postal mail; B7a: transmitted by email; and B8a: transmitted by other)

Table 2 shows the voting jurisdictions classified by whether they were considered a complete or incomplete response.⁶

| Case Disposition | Information Source | Conditions | Sample Size |
|----------------------------------|-----------------------|--|-------------|
| 4. Eligible, complete response | EAVS | Jurisdiction provided a response to any criteria identified above | 6,435 |
| 5. Eligible, Incomplete Response | EAVS | Jurisdiction did not provide a response to any criteria identified above. | 21 |
| Total | | | 6,456 |

Table 2: Case Dispositions for Weighting

⁶ Note: The 2018 PEVS-LEO did not ask any eligibility questions. American Association for Public Opinion Research. 2015. *Standard definitions: Final dispositions of case codes and outcome rates for surveys* (8th edition). AAPOR.

b. Complete Adjustments and Final Weights

The final weights by stratum are displayed in Table 3. All jurisdictions had an initial base weight of 1 (due to the survey being a census). Base weights were adjusted for incomplete surveys only. The eligibility-adjusted weights for eligible respondents (disposition = 4) were adjusted to account for eligible jurisdictions that had not met the criteria to be a complete respondent (disposition = 5). Weighting adjustment factors were computed as the inverse of the completion probabilities within strata.⁷ Only three of the eight strata had weighting adjustments.

| Stratum Number | UOCAVA Transmitted Ballots | Population Total | Complete Respondents | Final Weight |
|----------------|-------------------------------|------------------|-------------------------|--------------|
| 1 | 0 | 1,877 | 1,862 | 1.008 |
| 2 | 1 to 10 | 2,446 | 2,444 | 1.001 |
| 3 | 11 to 30 | 947 | 943 | 1.004 |
| 4 | 31 to 100 | 604 | 604 | 1 |
| 5 | 101 to 500 | 372 | 372 | 1 |
| 6 | 501 to 1,000 | 85 | 85 | 1 |
| 7 | 1,001 to 5,000 | 104 | 104 | 1 |
| 8 | 5,001 or more | 21 | 21 | 1 |
| | Total | 6,456 | 6,435 | |

Table 3: Final Weights by Stratification

1.5 // Edit and Imputation Process

To calculate estimated totals from EAVS data, edit and imputation processes were developed for the items with missing data. Without an edit and imputation process, the estimated totals would underestimate the actual total (i.e., estimates would be biased low). For example, if a voting jurisdiction indicated it had *UOCAVA* voters but failed to report the number of Uniformed Service members covered by *UOCAVA*, the Uniformed Service members' number would be underestimated since it would be assumed to be 0 for this jurisdiction.

Work to overcome these issues proceeded in two stages. The edit process is the inspection of collected data before statistical analysis, with the goal of verifying that the data have properties intended for the original design. An imputation process then places an estimated answer into a data field for a record that previously had no data or had incorrect or implausible data.

⁷ For the creation of State totals, each stratum was given separate weights for each State based on nonresponse patterns in that State.

a. Edit Process

FMG conducted the edit process on behalf of FVAP after having received EAVS data from jurisdictions. Among the editing steps undertaken:

- Missing data was backfilled with -88 for "Not Applicable"; or with -99 when a jurisdiction indicated "Data Not Available."
- When the total value (e.g., B5a) for a question was reported as 0 or missing, but the jurisdiction reported data for any of the subitems in that question (e.g., B5b, B5c), the total value was backfilled with the sum of the subitems.

b. Imputation Process

The imputation process was designed to produce estimates for respondents who did not provide a value to any item or subitem that was required by FVAP. For the purpose of this analysis, "Not Applicable" entries were given a value of 0, whereas "Data Not Available" entries were treated as missing. Imputations were then created at the jurisdiction level and aggregated up to the state and national level. Jurisdiction-level imputations were created for responding jurisdictions with missing items and subitems.⁸ Creating imputations involved a multiple weighted sequential hot deck imputation procedure. For weighted sequential hot deck imputations that were complete cases were selected at random from jurisdictions within the same subgroup that had answered the missing data. Imputation was carried out five times (m = 5) following standard imputations. For estimation, standard procedures were used by averaging across the five data sets.

c. Variance Estimation

Estimates from the 2018 Quant PEVS-LEO have uncertainty due to unit and item nonresponse. Unit nonresponse was about 0.3 percent and item nonresponse ranged from zero to 40 percent (see Appendix A, Table A1) for most survey questions that estimated numeric totals. FMG used weighting to compensate for unit nonresponse and imputation to adjust for item nonresponse. To create national estimates, missing information from responding jurisdictions was imputed using a sequential hot deck procedure as described in the previous section and a weighting process was developed so that totals would represent all jurisdictions. Table A1 in the Appendix shows the final imputed national estimates and their associated precision (displayed as "margins of error").⁹

⁸ Use of these estimates as jurisdiction-level figures is not recommended because of their low reliability due to sampling variability.

 $^{^{9}}$ Margins of error were estimated using Stata's mi estimate command. See Appendix A.

References

American Association for Public Opinion Research. (2015). Standard definitions: Final dispositions of case codes and outcome rates for surveys (8th edition). AAPOR.

- EAC. (2019). 2018 EAC Election Administration and Voting Comprehensive Report (Report to 117th Congress). Retrieved from https://www.eac.gov/research-and-data/election-administration-voting-survey/.
- Federal Voting Assistance Program. (2019). 2018 FVAP Post-Election Survey Report to Congress. Retrieved from https://www.fvap.gov/.

Appendix A: 2018 National Estimates

TABLE A1 – Question by Final Estimate, Margin of Error and Relative Precision

| Question | Description | Final Estimate (Weighted) | Margin of Error | Relative Precision |
|----------|--|---------------------------|--------------------|-----------------------|
| Ala | Total Registered Voters | 211,456,032 | 76,941 | 0% |
| B1a | UOCAVA Registered: Total | 761,669 | 5,956 | 1% |
| B1b | Uniformed Service Registered: Total | 316,588 | 4,520 | 1% |
| B1c | Non-military Registered: Total | 437,488 | 2,596 | 1% |
| B2a | UOCAVA FPCAs: Total | 323,379 | 7,289 | 2% |
| B2b | Uniformed Service FPCAs: Total | 85,452 | 1,321 | 2% |
| B2c | Non-military FPCAs: Total | 236,908 | 7,234 | 3% |
| B3a | UOCAVA FPCAs Rejected: Total | 7,372 | 766 | 10% |
| B3b | Uniformed Service FPCAs Rejected: Total | 2,418 | 54 | 2% |
| B3c | Non-military FPCAs Rejected: Total | 4,881 | 698 | 14% |
| B4a | UOCAVA FPCAs Rejected: Total Late | 2,115 | 68 | 3% |
| B5a | UOCAVA Transmitted Ballots: Total | 655,889 | 23 | 0% |
| B5b | Uniformed Service Transmitted Ballots: Total | 260,996 | 153 | 0% |
| B5c | Non-Military Transmitted Ballots: Total | 395,342 | 2,786 | 1% |
| B6a | UOCAVA Transmitted Ballots: Mail | 275,469 | 4,270 | 2% |
| B6b | Uniformed Service Transmitted Ballots: Mail | 156,613 | 4,955 | 3% |
| B6c | Non-military Transmitted Ballots: Mail | 117,310 | 1,460 | 1% |
| B7a | UOCAVA Transmitted Ballots: Email | 370,935 | 5,853 | 2% |
| B7b | Uniformed Service Transmitted Ballots: Email | 99,578 | 3,000 | 3% |
| B7c | Uniformed Service Transmitted Ballots: Email | 256,882 | 4,824 | 2% |
| B8a | UOCAVA Transmitted Ballots: Other | 35,948 | 4,843 | 13% |
| B8b | Uniformed Service Transmitted: Other | 12,462 | 2,801 | 22% |
| B8c | Non-military Transmitted: Other | 22,004 | 4,875 | 22% |
| B9a | UOCAVA Ballots Returned: Total | 349,283 | 1,922 | 1% |
| B9b | Uniformed Service Ballots Returned: Total | 123,224 | 2,252 | 2% |
| B9c | Non-military Ballots Returned: Total | 228,404 | 4,039 | 2% |
| B10a | UOCAVA Ballots Returned: Mail | 231,302 | 1,715 | 1% |

| B10b | Uniformed Service Ballots Returned: Mail | 92,470 | 1,602 | 2% |
|------|---|---------|-------|-----|
| B10c | Non-military Ballots Returned: Mail | 130,275 | 1,960 | 2% |
| B11a | UOCAVA Ballots Returned: Email | 87,151 | 3,844 | 4% |
| B11b | Uniformed Service Ballots Returned: Email | 15,846 | 829 | 5% |
| B11c | Non-military Ballots Returned: Email | 63,399 | 3,289 | 5% |
| B12a | UOCAVA Ballots Returned: Other | 31,616 | 2,989 | 9% |
| B12b | Uniformed Service Ballots Returned: Other | 9,470 | 1,238 | 13% |
| B12c | Non-military Ballots Returned: Other | 20,045 | 3,497 | 17% |
| B13a | UOCAVA Returned Undeliverable: Total | 29,121 | 1,483 | 5% |
| B13b | UOCAVA Returned Undeliverable: Mail | 26,016 | 688 | 3% |
| B13c | UOCAVA Returned Undeliverable: Email | 4,162 | 1,284 | 31% |
| B13d | UOCAVA Returned Undeliverable: Other | 327 | 47 | 14% |
| B14a | UOCAVA Ballots Counted: Total | 342,830 | 1,604 | 0% |
| B14b | Uniformed Service Ballots Counted: Total | 117,786 | 2,328 | 2% |
| B14c | Non-military Ballots Counted: Total | 225,887 | 4,702 | 2% |
| B15a | UOCAVA Ballots Counted: Mail | 215,847 | 1,566 | 1% |
| B15b | Uniformed Service Ballots Counted: Mail | 87,054 | 973 | 1% |
| B15c | Non-military Ballots Counted: Mail | 125,723 | 1,681 | 1% |
| B16a | UOCAVA Ballots Counted: Email | 98,362 | 3,978 | 4% |
| B16b | Uniformed Service Ballots Counted: Email | 16,975 | 1,106 | 7% |
| B16c | Non-military Ballots Counted: Email | 70,402 | 2,986 | 4% |
| B17a | UOCAVA Ballots Counted: Other | 34,520 | 4,400 | 13% |
| B17b | Uniformed Service Ballots Counted: Other | 9,598 | 1,243 | 13% |
| B17c | Non-military Ballots Counted: Other | 23,522 | 4,054 | 17% |
| B18a | UOCAVA Ballots Rejected: Total | 19,596 | 73 | 0% |
| B18b | Uniformed Service Ballots Rejected: Total | 6,748 | 70 | 1% |
| B18c | Non-military Ballots Rejected: Total | 12,616 | 110 | 1% |
| B19a | UOCAVA Ballots Rejected: Deadline | 9,280 | 131 | 1% |
| B19b | Uniformed Service Ballots Rejected: Deadline | 2,790 | 42 | 2% |
| B19c | Non-military Ballots Rejected: Deadline | 6,315 | 346 | 5% |
| B20a | UOCAVA Ballots Rejected: Signature | 2,475 | 82 | 3% |
| B20b | Uniformed Service Ballots Rejected: Signature | 1,238 | 165 | 13% |
| B20c | Non-military Ballots Rejected: Signature | 1,214 | 78 | 6% |
| B21a | UOCAVA Ballots Rejected: Postmark | 644 | 0 | 0% |
| B21b | Uniformed Service Ballots Rejected: Postmark | 46 | 0 | 0% |
| B21c | Non-military Ballots Rejected: Postmark | 28 | 0 | 0% |
| B22a | UOCAVA Ballots Rejected: Other Text | 4,094 | 482 | 12% |
| B22b | Uniformed Service Ballots Rejected: Other | 1,582 | 518 | 33% |
| B22c | Non-military Ballots Rejected: Other | 1,417 | 221 | 16% |

| UOCAVA FWABs Returned: Total | 8,082 | 327 | 4% |
|--|--|---|---|
| Uniformed Service FWABs Returned: Total | 2,772 | 398 | 14% |
| Non-military FWABs Returned: Total | 4,651 | 699 | 15% |
| UOCAVA FWABs Counted: Total | 5,735 | 354 | 6% |
| Uniformed Service FWABs Counted: Total | 1,737 | 343 | 20% |
| Non-military FWABs Counted: Total | 3,521 | 700 | 20% |
| UOCAVA FWABs Rejected: Deadline | 744 | 35 | 5% |
| Uniformed Service FWABs Rejected: Deadline | 317 | 68 | 21% |
| Non-military FWABs Rejected: Deadline | 427 | 56 | 13% |
| UOCAVA FWABs Rejected: Absentee | 641 | 70 | 11% |
| Uniformed Service FWABs Rejected: Absentee | 136 | 45 | 33% |
| Non-military FWABs Rejected: Absentee | 198 | 40 | 20% |
| | UOCAVA FWABs Returned: Total Uniformed Service FWABs Returned: Total Non-military FWABs Returned: Total UOCAVA FWABs Counted: Total Uniformed Service FWABs Counted: Total Non-military FWABs Counted: Total UOCAVA FWABs Rejected: Deadline Uniformed Service FWABs Rejected: Deadline Non-military FWABs Rejected: Deadline UOCAVA FWABs Rejected: Deadline UOCAVA FWABs Rejected: Absentee Uniformed Service FWABs Rejected: Absentee Non-military FWABs Rejected: Absentee | UOCAVA FWABs Returned: Total8,082Uniformed Service FWABs Returned: Total2,772Non-military FWABs Returned: Total4,651UOCAVA FWABs Counted: Total5,735Uniformed Service FWABs Counted: Total1,737Non-military FWABs Counted: Total3,521UOCAVA FWABs Rejected: Deadline744Uniformed Service FWABs Rejected: Deadline317Non-military FWABs Rejected: Deadline427UOCAVA FWABs Rejected: Absentee641Uniformed Service FWABs Rejected: Absentee136Non-military FWABs Rejected: Absentee198 | UOCAVA FWABs Returned: Total8,082327Uniformed Service FWABs Returned: Total2,772398Non-military FWABs Returned: Total4,651699UOCAVA FWABs Counted: Total5,735354Uniformed Service FWABs Counted: Total1,737343Non-military FWABs Counted: Total3,521700UOCAVA FWABs Rejected: Deadline74435Uniformed Service FWABs Rejected: Deadline31768Non-military FWABs Rejected: Deadline42756UOCAVA FWABs Rejected: Absentee64170Uniformed Service FWABs Rejected: Absentee13645Non-military FWABs Rejected: Absentee19840 |

Note: B5a was imputed using 2014 EAC data. More information regarding B5a is covered in the Sample Design section. Relative precision refers to the percentage of the margins of error in relation to the final estimate: ([Margin of Error/Final Estimate] * 100).

| TABLE A2 – Questio | n by Edited and | Imputed Totals |
|--------------------|-----------------|-----------------------|
|--------------------|-----------------|-----------------------|

| Question | Edited Total (Unweighted) | Number Imputed | Imputed Total |
|----------|---------------------------|----------------|---------------|
| A1a | 211,348,000 | 6 | 211,348,000 |
| B1a | 735,231 | 324 | 761,541 |
| B1b | 304,575 | 419 | 316,521 |
| B1c | 420,677 | 426 | 437,434 |
| B2a | 312,405 | 260 | 323,324 |
| B2b | 79,341 | 511 | 85,430 |
| B2c | 218,392 | 512 | 236,875 |
| ВЗа | 6,344 | 2,476 | 7,371 |
| B3b | 2,137 | 2,515 | 2,418 |
| B3c | 4,077 | 2,518 | 4,880 |
| B4a | 1,989 | 2,581 | 2,115 |
| B5a | 655,808 | 0 | 655,808 |
| B5b | 260,750 | 16 | 260,959 |
| B5c | 393,041 | 18 | 395,298 |
| B6a | 268,543 | 236 | 275,447 |
| B6b | 147,820 | 684 | 156,599 |
| B6c | 110,859 | 694 | 117,303 |
| B7a | 354,496 | 238 | 370,881 |
| B7b | 90,825 | 613 | 99,559 |
| B7c | 237,763 | 508 | 256,849 |
| B8a | 31,303 | 325 | 35,943 |

| B8b | 10,741 | 774 | 12,460 |
|------|---------|-------|---------|
| B8c | 17,345 | 771 | 22,002 |
| B9a | 344,497 | 64 | 349,224 |
| B9b | 119,167 | 178 | 123,199 |
| B9c | 219,665 | 181 | 228,370 |
| B10a | 220,809 | 507 | 231,263 |
| B10b | 85,921 | 725 | 92,452 |
| B10c | 121,588 | 729 | 130,255 |
| B11a | 76,918 | 566 | 87,132 |
| B11b | 13,429 | 788 | 15,842 |
| B11c | 56,042 | 791 | 63,387 |
| B12a | 28,993 | 1,513 | 31,614 |
| B12b | 8,232 | 1,734 | 9,469 |
| B12c | 16,559 | 1,736 | 20,044 |
| B13a | 27,860 | 604 | 29,120 |
| B13b | 24,835 | 727 | 26,015 |
| B13c | 2,708 | 811 | 4,162 |
| B13d | 294 | 2,285 | 327 |
| B14a | 338,275 | 30 | 342,775 |
| B14b | 114,719 | 159 | 117,764 |
| B14c | 218,275 | 167 | 225,855 |
| B15a | 205,112 | 568 | 215,811 |
| B15b | 82,023 | 601 | 87,037 |
| B15c | 118,521 | 612 | 125,705 |
| B16a | 78,785 | 819 | 98,343 |
| B16b | 13,799 | 823 | 16,971 |
| B16c | 58,100 | 828 | 70,390 |
| B17a | 31,736 | 1,684 | 34,518 |
| B17b | 8,421 | 1,692 | 9,597 |
| B17c | 20,089 | 1,693 | 23,521 |
| B18a | 19,328 | 156 | 19,594 |
| B18b | 6,566 | 382 | 6,747 |
| B18c | 12,212 | 395 | 12,615 |
| B19a | 8,948 | 308 | 9,278 |
| B19b | 2,602 | 547 | 2,789 |
| B19c | 5,739 | 554 | 6,314 |
| B20a | 2,353 | 612 | 2,474 |
| B20b | 990 | 909 | 1,237 |
| B20c | 1,038 | 911 | 1,214 |

| B21a | 620 | 1,389 | 644 |
|------|-------|-------|-------|
| B21b | 19 | 1,554 | 46 |
| B21c | 19 | 1,554 | 28 |
| B22a | 3,586 | 866 | 4,093 |
| B22b | 1,125 | 1,177 | 1,582 |
| B22c | 1,044 | 1,178 | 1,417 |
| B23a | 7,286 | 798 | 8,080 |
| B23b | 2,305 | 957 | 2,772 |
| B23c | 3,661 | 959 | 4,650 |
| B24a | 5,018 | 806 | 5,734 |
| B24b | 1,328 | 961 | 1,737 |
| B24c | 2,644 | 964 | 3,521 |
| B25a | 692 | 1,006 | 744 |
| B25b | 245 | 1,126 | 317 |
| B25c | 385 | 1,127 | 427 |
| B26a | 587 | 1,025 | 641 |
| B26b | 112 | 1,084 | 136 |
| B26c | 163 | 1,084 | 198 |

Note: The first column provides the question number. The second column provides the total for the question for all responding jurisdictions. The third column provides the number of jurisdictions with imputed data. The fourth column provides the total for all values (imputed and nonimputed).