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# Appendix A.

## Statistical Methodology

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### THE SURVEY POPULATION

The target population for the 2008 Organic Production Survey (OPS) was all farms and ranches meeting the standards of the National Organic Program (NOP) administered by the USDA's Agricultural Marketing Service (AMS). The standards set by the NOP provide certifying agencies with guidelines to certify farms to use the officially trademarked "USDA Organic" seal. The 2008 OPS defined three organic operation groups – certified, exempt, and transitioning. A certified farm meets NOP standards to market under the "USDA Organic" seal. An exempt farm also meets the criteria for marketing as organic but, because of annual sales less than \$5,000, is exempt from fees associated with certification. A transitioning farm produces organic products by the NOP standards but has not met the three year organic practices requirement. (NOP standards are available on the Internet at [www.ams.usda.gov/nop](http://www.ams.usda.gov/nop).)

The 2008 OPS mail list was built from several sources. An important source was all farms in the U.S. that indicated they were certified, exempt, or transitioning (converting) to organic production, or showed potential, in the 2007 Census of Agriculture. Another source came from list building activities that NASS conducted prior to mail out. For example, the mail list was enhanced by including names from the 2008 AMS list of certified organic farmers. Also, names on a list of organic wheat farmers obtained from USDA Economic Research Service (ERS) were included. Some records on the OPS mail list were neither respondents from the 2007 census nor recent additions based on 2008 list building, but had pre-existing indicators of organic activity or organic acres on NASS's list frame.

The final mail list included 28,938 farms that met the above criteria. Table A provides the counts by State of the final mail list, the number of returned OPS

forms, and the number of qualifying organic farms. The response rate is an indicator of the quality of a data collection. It is generally assumed that if a response rate is close to a full participation level of 100 percent, the potential for nonresponse bias is small. Table A shows the response rate for the 2008 OPS was 87 percent.

### DATA COLLECTION

#### Method of Enumeration

The 2008 Organic Production Survey was conducted primarily by mail. It was supplemented with Electronic Data Reporting (EDR) via the Internet, telephone calls, and personal enumeration.

#### Report Form

An eight-page 2008 Organic Production Survey report form was designed to collect data from certified, exempt, and transitioning farms as defined by the NOP. Since this was the first national organic production survey, NASS solicited input from the organic industry, AMS and ERS, and conducted cognitive testing of the form with farms in the target population. The report form collected information about organic acreage and production of field crops, hay, vegetables, fruits, nuts, and horticulture. The report form also had sections devoted to capturing data that included livestock and livestock products, production expenses, production and marketing practices including value-added sales, and other information about a farm's characteristics. See Appendix B for facsimiles of the report form and instruction sheet.

#### Report Form Mailings and Respondent Follow-up

The initial mailout took place in May 2009. The initial mail packets included a labeled report form,

an instruction sheet, a letter requesting a prompt response with electronic data reporting instructions, and a return envelope. Mailout packet preparation, initial mailout, and one follow-up mailing to non-respondents were handled by the Census Bureau's National Processing Center (NPC) in Jeffersonville, IN. Telephone follow-up of mail non-respondents was made from a NASS Data Collection Center beginning in June 2009.

Data were collected for a select group of farms by the NASS field offices. To minimize the number of agency contacts, farms were included in this group if they were scheduled for contact by NASS for other agricultural surveys. Report forms were labeled at NPC and sent to the field offices in May 2009. Field office staff collected data by personal enumeration or by phone from May 2009 through August 2009.

## **REPORT FORM PROCESSING**

### **Data Capture**

All report forms returned to NPC were immediately checked in using bar codes printed on the mailing label and removed from follow-up mailings. All forms were reviewed prior to data keying to identify inconsistencies and ensure the data could be keyed. Major inconsistencies, respondent remarks, and blank report forms were reviewed by analysts and adjusted prior to data keying as needed. All forms with any data were scanned and an image was created for each page of a report form. After the images were created, the data were keyed directly from the paper form received.

### **Data Editing and Analysis**

Data from each report form were processed through a computer edit which flagged inconsistent entries. Each report with a flagged entry was reviewed by staff. Action was required for any record with reported data that were obviously incorrect. In some cases, respondents may have failed to provide all of the information requested, only indicating the presence of an item but not the amount. These items were tagged for machine imputation.

After the initial edit, an automated imputation program supplied missing data based on similar organic farming data from a respondent in close geographic proximity. A post-imputation computer edit was performed to ensure imputation actions provided acceptable results. Instances where imputed data failed edit checks were referred to analysts for corrective action.

The computer edit ensured the data on a report form were internally consistent. An analysis tool was provided to examine the data across records to check for distributional irregularities and data outliers. Analysts corrected suspect data when necessary and re-edited the record.

## **ESTIMATION**

The estimates produced from the OPS were obtained by multiplying each farm's data by a weight. Each farm on the OPS mail list represented itself only and received an initial weight of one. The initial weights were adjusted to account for farms that did not respond and farms that were not on the mail list. The final weight is a whole number factor that adjusts for nonresponse and list incompleteness and accounts for the entire target population. The weighted data were summed to obtain estimates at the State and U.S. levels.

### **Nonresponse Weights**

Not every organic farm that was contacted provided the requested data. Nonrespondents must be accounted for in final estimates. This was accomplished by increasing the survey weights of the respondents in proportion to the number of nonrespondents. List frame control data were used to define weighting cells comprised of farms of similar size. The counts of survey respondents and nonrespondents were used to compute the adjustment factor for the weighting cell. The methodology assumed nonresponse was random. For example, a weighting cell has 100 farms of which 80 responded and 20 did not. Every respondent would have its original weight of 1 increased to 1.25 (100/80) to represent the farms not responding.

## Coverage Weights

Despite the intense effort to build a list of farms and ranches meeting the standards of the National Organic Program, the final OPS mail list was incomplete. Coverage adjustment weights were derived and applied to the data to represent these missing operations in the final estimates. This was accomplished by obtaining a measure of the number of organic and potentially organic farms represented in the fully adjusted 2007 Census of Agriculture based on the same criteria used to develop the OPS mail list. List coverage was not uniform across economic size categories. Coverage for larger farms tends to be very high while coverage for smaller farms tends to be lower. Therefore, coverage adjustment cells were created based on economic size. The coverage weight for each coverage adjustment cell is obtained by taking the cell's target number of potential organic farms obtained from the 2007 Census of Agriculture and dividing by the sum of the nonresponse weights of the responding farms in the cell. This approach assumed that the number of farms meeting the OPS mail list criteria was stable from 2007 to 2008 and that coverage was uniform for different types of records within coverage adjustment cells. The nonresponse adjusted weight of each OPS respondent in each adjustment cell was multiplied by the coverage weight to account for missing farms. The resulting weight is referred to as the fully adjusted weight and is used to calculate the farm counts and totals shown in this publication.

## RESPONDENT CONFIDENTIALITY

In keeping with the provisions of Title 7 of the United States Code, no data are published that would disclose information about the operations of an individual farm or ranch. All tabulated data are subjected to an extensive disclosure review prior to publication. Any tabulated item that identifies data reported by a respondent or allows a respondent's data to be closely estimated or derived is suppressed and coded with a 'D'. In some special cases, required suppressions may be revealed with the informed written consent of the producer at risk. The number of farms reporting an item is not considered confidential information and is provided even though other information may be withheld.

## DATA COMPARABILITY

The 2008 Organic Production Survey (OPS) results reflect the industry as of the time the list was built and the 2008 production year. Comparisons to data from the 2007 Census of Agriculture or other non-NASS sources must allow for differences in reference periods and organic definitions. Transitioning farms in 2007 may have been certified in 2008. Farms producing in 2007 may have not produced in 2008. Farms indicating they were organic on the 2007 census may have been found not certified, exempt, or transitioning and ineligible for the target population in 2008. Table B shows fully adjusted OPS farm counts and total organic acres by State for farms that indicated organic on the 2007 Census of Agriculture, comparable data from the 2008 OPS, and a count of farms that did not qualify for the 2008 OPS.

Table C provides a summary of transitioning acres by State. The count of transitioning farms is given with the fully adjusted total acres of cropland and pasture. These totals are further divided into those farms with other acres certified, farms that are exempt, and those with only transitioning acres.

There were 6,439 respondents who reported they intended to become certified but were exempt or not certified in 2008. Twenty-six percent of those operations reported they intended to become certified organic in the next 3 years. Acreage data are not included in this report as these operations may not accurately represent the population of producers intending to become certified organic.

## MEASURES OF SURVEY QUALITY

Results of the 2008 OPS are subject to nonsampling errors including nonsampling errors carried forward from the 2007 Census of Agriculture. Sources of nonsampling errors include respondent reporting errors, recording errors, errors in data capture, or errors in the actions taken during editing and imputation.

Nonsampling error due to mail list incompleteness and duplication, as well as misclassification of records on the mail list, is referred to as coverage

error. Undercoverage existed in the frame population to the extent that there were farms that either failed to indicate they were organic in the 2007 census or became organic in 2008. Overcoverage existed in the frame because some operations were misclassified as USDA organic and did not qualify for the 2008 OPS or had stopped organic farming in 2008. Farms in these groups that were included in the OPS were identified during survey data collection and treated as out-of-scope.

## **MEASURES OF PRECISION**

The sampling error associated with an estimate provides a measure of how precise the estimates are given different samples will yield different results.

Since the OPS is a census of all known organic producers, no sampling error is introduced as a result of sampling. However, sampling error is generated by the nonresponse and coverage adjustments. The statistical precision estimates for selected survey items are presented in Table D. The estimated precision is presented as the estimated relative standard error. The relative standard error is computed as the ratio of the estimated standard error of the estimated total for the survey item to the estimated item total and is expressed as a percent referred to as coefficient of variation. The smaller the value of the relative standard error, the more precise the estimate of the associated survey item total is likely to be.

**Table A. Mailed and Returned Organic Production Survey Report Forms and Qualifying Organic Farms: 2008**

[For meaning of abbreviations and symbols, see introductory text]

| Geographic area            | Report forms mailed | Returned | Qualifying organic farms |
|----------------------------|---------------------|----------|--------------------------|
| <b>United States</b> ..... | 28,939              | 25,277   | 12,631                   |
| Alabama .....              | 147                 | 144      | 33                       |
| Alaska .....               | 51                  | 41       | 16                       |
| Arizona .....              | 136                 | 127      | 61                       |
| Arkansas .....             | 190                 | 168      | 34                       |
| California .....           | 4,734               | 4,032    | 2,220                    |
| Colorado .....             | 549                 | 482      | 195                      |
| Connecticut .....          | 289                 | 235      | 86                       |
| Delaware .....             | 23                  | 20       | 8                        |
| Florida .....              | 408                 | 361      | 139                      |
| Georgia .....              | 363                 | 318      | 97                       |
| Hawaii .....               | 508                 | 469      | 239                      |
| Idaho .....                | 507                 | 453      | 220                      |
| Illinois .....             | 407                 | 382      | 205                      |
| Indiana .....              | 445                 | 377      | 161                      |
| Iowa .....                 | 982                 | 769      | 456                      |
| Kansas .....               | 289                 | 247      | 92                       |
| Kentucky .....             | 343                 | 325      | 94                       |
| Louisiana .....            | 108                 | 98       | 24                       |
| Maine .....                | 667                 | 552      | 318                      |
| Maryland .....             | 219                 | 189      | 95                       |
| Massachusetts .....        | 400                 | 332      | 142                      |
| Michigan .....             | 923                 | 808      | 416                      |
| Minnesota .....            | 1,106               | 922      | 509                      |
| Mississippi .....          | 124                 | 102      | 23                       |
| Missouri .....             | 515                 | 461      | 181                      |
| Montana .....              | 371                 | 330      | 170                      |
| Nebraska .....             | 362                 | 321      | 162                      |
| Nevada .....               | 52                  | 47       | 25                       |
| New Hampshire .....        | 235                 | 195      | 85                       |
| New Jersey .....           | 276                 | 219      | 111                      |
| New Mexico .....           | 372                 | 330      | 139                      |
| New York .....             | 1,577               | 1,412    | 740                      |
| North Carolina .....       | 594                 | 541      | 195                      |
| North Dakota .....         | 227                 | 198      | 110                      |
| Ohio .....                 | 949                 | 843      | 497                      |
| Oklahoma .....             | 273                 | 232      | 73                       |
| Oregon .....               | 1,224               | 1,149    | 628                      |
| Pennsylvania .....         | 1,138               | 978      | 511                      |
| Rhode Island .....         | 50                  | 43       | 27                       |
| South Carolina .....       | 155                 | 137      | 30                       |
| South Dakota .....         | 210                 | 185      | 93                       |
| Tennessee .....            | 306                 | 271      | 78                       |
| Texas .....                | 1,352               | 1,277    | 359                      |
| Utah .....                 | 232                 | 214      | 81                       |
| Vermont .....              | 717                 | 590      | 372                      |
| Virginia .....             | 438                 | 383      | 143                      |
| Washington .....           | 1,414               | 1,188    | 768                      |
| West Virginia .....        | 150                 | 142      | 45                       |
| Wisconsin .....            | 1,698               | 1,516    | 1,067                    |
| Wyoming .....              | 134                 | 122      | 58                       |

**Table B. Land Used for Organic Production: 2007 Census of Agriculture and 2008 Organic Production Survey**

[For meaning of abbreviations and symbols, see introductory text]

| Geographic area            | 2007 Census of Agriculture organic production |           | 2008 Organic Production Survey |           |                      |        |                                     |         |
|----------------------------|---|-----------|--------------------------------|-----------|----------------------|--------|-------------------------------------|---------|
|                            |   |           | Certified organic farms        |           | Exempt organic farms |        | Other farms (see text) <sup>1</sup> |         |
|                            | Farms   | Acres     | Farms                          | Acres     | Farms                | Acres  | Farms                               | Acres   |
| <b>United States</b> ..... | 20,437  | 2,577,418 | 10,903                         | 4,004,160 | 3,637                | 73,177 | 5,963                               | 541,008 |
| Alabama .....              | 63  | 1,766     | 4                              | 365       | 30                   | 717    | 46                                  | 1,961   |
| Alaska .....               | 35  | 320       | 6                              | 323       | 10                   | 118    | 19                                  | 71      |
| Arizona .....              | 129   | 16,907    | 38                             | 20,566    | 25                   | 432    | 48                                  | 5,735   |
| Arkansas .....             | 83  | 5,865     | 25                             | 6,261     | 11                   | 46     | 43                                  | 2,347   |
| California .....           | 3,515   | 368,934   | 2,286                          | 461,567   | 428                  | 9,336  | 831                                 | 65,644  |
| Colorado .....             | 425   | 102,936   | 163                            | 148,974   | 57                   | 5,007  | 208                                 | 42,915  |
| Connecticut .....          | 186   | 1,485     | 37                             | 477       | 45                   | 645    | 52                                  | 482     |
| Delaware .....             | 14  | 97        | 4                              | 239       | 4                    | 20     | 1                                   | (D)     |
| Florida .....              | 280   | 9,301     | 99                             | 7,453     | 73                   | 626    | 108                                 | 996     |
| Georgia .....              | 157   | 2,015     | 58                             | 3,708     | 45                   | 827    | 49                                  | 652     |
| Hawaii .....               | 594   | 9,934     | 180                            | 9,814     | 158                  | 740    | 188                                 | 1,024   |
| Idaho .....                | 299   | 111,781   | 219                            | 148,147   | 35                   | 278    | 86                                  | 12,763  |
| Illinois .....             | 280   | 18,514    | 162                            | 29,885    | 67                   | 777    | 67                                  | 901     |
| Indiana .....              | 287   | 14,143    | 108                            | 12,579    | 40                   | 440    | 89                                  | 2,328   |
| Iowa .....                 | 566   | 72,394    | 476                            | 93,462    | 42                   | 1,106  | 102                                 | 4,861   |
| Kansas .....               | 161   | 37,845    | 87                             | 52,848    | 22                   | 292    | 55                                  | 4,982   |
| Kentucky .....             | 193   | 9,280     | 52                             | 5,377     | 51                   | 1,391  | 82                                  | 3,546   |
| Louisiana .....            | 43  | 1,822     | 16                             | 2,102     | 7                    | 49     | 21                                  | 741     |
| Maine .....                | 582   | 38,767    | 276                            | 26,336    | 103                  | 1,929  | 129                                 | 4,083   |
| Maryland .....             | 161   | 6,678     | 95                             | 8,765     | 34                   | 387    | 44                                  | 721     |
| Massachusetts .....        | 319   | 7,326     | 80                             | 3,680     | 94                   | 723    | 97                                  | 2,184   |
| Michigan .....             | 632   | 50,208    | 309                            | 66,273    | 152                  | 1,894  | 194                                 | 4,491   |
| Minnesota .....            | 718   | 96,342    | 462                            | 120,039   | 88                   | 2,389  | 162                                 | 8,555   |
| Mississippi .....          | 83  | 2,256     | 10                             | (D)       | 21                   | (D)    | 40                                  | 973     |
| Missouri .....             | 273   | 21,738    | 115                            | 27,458    | 82                   | 2,737  | 102                                 | 6,181   |
| Montana .....              | 229   | 195,204   | 133                            | 284,031   | 40                   | 451    | 74                                  | 35,660  |
| Nebraska .....             | 190   | 82,407    | 146                            | 145,973   | 16                   | 215    | 43                                  | 5,942   |
| Nevada .....               | 41  | 6,237     | 20                             | 4,021     | 6                    | 132    | 13                                  | 2,362   |
| New Hampshire .....        | 173   | 6,177     | 79                             | 8,210     | 23                   | 237    | 51                                  | 1,137   |
| New Jersey .....           | 211   | 3,449     | 62                             | 2,697     | 60                   | 632    | 66                                  | 600     |
| New Mexico .....           | 321   | 71,607    | 139                            | 116,975   | 60                   | 701    | 121                                 | 43,471  |
| New York .....             | 1,137   | 131,796   | 684                            | 164,281   | 143                  | 4,147  | 300                                 | 13,020  |
| North Carolina .....       | 418   | 7,711     | 134                            | 8,612     | 112                  | 1,006  | 185                                 | 2,440   |
| North Dakota .....         | 129   | 102,204   | 124                            | 152,723   | 3                    | 5      | 27                                  | 15,319  |
| Ohio .....                 | 687   | 55,086    | 420                            | 59,700    | 127                  | 2,296  | 181                                 | 5,548   |
| Oklahoma .....             | 158   | 22,888    | 58                             | 27,515    | 30                   | 2,076  | 85                                  | 11,136  |
| Oregon .....               | 933   | 92,405    | 433                            | 100,154   | 224                  | 5,451  | 282                                 | 28,661  |
| Pennsylvania .....         | 775   | 45,181    | 466                            | 51,731    | 120                  | 1,893  | 232                                 | 8,446   |
| Rhode Island .....         | 51  | 216       | 22                             | (D)       | 6                    | (D)    | 20                                  | (D)     |
| South Carolina .....       | 89  | 993       | 16                             | 561       | 18                   | 464    | 38                                  | 638     |
| South Dakota .....         | 107   | 105,299   | 94                             | 131,924   | 9                    | 123    | 24                                  | 9,224   |
| Tennessee .....            | 159   | 2,020     | 19                             | 1,216     | 64                   | 784    | 65                                  | 726     |
| Texas .....                | 660   | 169,638   | 185                            | 308,673   | 187                  | 5,606  | 312                                 | 98,776  |
| Utah .....                 | 154   | 86,084    | 54                             | 143,154   | 41                   | 1,074  | 56                                  | 18,349  |
| Vermont .....              | 619   | 67,315    | 410                            | 75,834    | 57                   | 1,675  | 135                                 | 6,159   |
| Virginia .....             | 311   | 13,502    | 85                             | 10,643    | 95                   | 1,665  | 109                                 | 3,492   |
| Washington .....           | 1,207   | 64,830    | 707                            | 80,305    | 180                  | 1,911  | 335                                 | 10,400  |
| West Virginia .....        | 84  | 2,158     | 5                              | 139       | 50                   | 1,814  | 48                                  | 1,101   |
| Wisconsin .....            | 1,443   | 147,120   | 994                            | 190,674   | 228                  | 4,929  | 275                                 | 12,484  |
| Wyoming .....              | 73  | 87,237    | 47                             | 676,518   | 14                   | 629    | 23                                  | 26,708  |

<sup>1</sup> Data include farms that reported organic acreage in the 2007 census but are not certified organic or exempt organic in the 2008 survey.

**Table C. Farms with Land Transitioning to Organic Production: 2008**

[For meaning of abbreviations and symbols, see introductory text]

| Geographic area            | Total |                              |                             | Certified organic farms |                     | Exempt organic farms |                     | Other farms <sup>1</sup> |                     |
|----------------------------|-------|------------------------------|-----------------------------|-------------------------|---------------------|----------------------|---------------------|--------------------------|---------------------|
|                            | Farms | Transitioning cropland acres | Transitioning pasture acres | Farms                   | Transitioning acres | Farms                | Transitioning acres | Farms                    | Transitioning acres |
| <b>United States</b> ..... | 3,837 | 187,330                      | 204,966                     | 1,397                   | 185,796             | 376                  | 8,588               | 2,064                    | 197,912             |
| Alabama .....              | 27    | 274                          | 724                         | 1                       | (D)                 | 2                    | (D)                 | 24                       | 943                 |
| Alaska .....               | 5     | (D)                          | (D)                         | 2                       | (D)                 | 1                    | (D)                 | 2                        | (D)                 |
| Arizona .....              | 34    | (D)                          | (D)                         | 3                       | (D)                 | 6                    | (D)                 | 25                       | (D)                 |
| Arkansas .....             | 19    | 264                          | 362                         | 5                       | (D)                 | 2                    | (D)                 | 12                       | 332                 |
| California .....           | 506   | 23,447                       | 35,611                      | 189                     | 47,644              | 26                   | 192                 | 291                      | 11,222              |
| Colorado .....             | 82    | 6,860                        | 10,691                      | 28                      | 5,580               | 5                    | 606                 | 49                       | 11,365              |
| Connecticut .....          | 28    | 92                           | 113                         | 1                       | (D)                 | 4                    | (D)                 | 23                       | 125                 |
| Delaware .....             | 2     | (D)                          | -                           | 2                       | (D)                 | -                    | -                   | -                        | -                   |
| Florida .....              | 35    | (D)                          | (D)                         | 9                       | (D)                 | 2                    | (D)                 | 24                       | 862                 |
| Georgia .....              | 52    | 1,833                        | 1,352                       | 5                       | (D)                 | 11                   | (D)                 | 36                       | 1,990               |
| Hawaii .....               | 96    | 480                          | 44                          | 13                      | 198                 | 12                   | 24                  | 71                       | 302                 |
| Idaho .....                | 76    | 13,303                       | 219                         | 57                      | (D)                 | 1                    | (D)                 | 18                       | (D)                 |
| Illinois .....             | 77    | 4,342                        | 395                         | 36                      | 3,660               | 12                   | 59                  | 29                       | 1,018               |
| Indiana .....              | 73    | 2,908                        | 1,998                       | 21                      | 1,602               | 7                    | 30                  | 45                       | 3,274               |
| Iowa .....                 | 130   | 8,175                        | 2,463                       | 90                      | (D)                 | 3                    | (D)                 | 37                       | (D)                 |
| Kansas .....               | 32    | 2,776                        | 1,189                       | 15                      | 2,482               | 5                    | 15                  | 12                       | 1,468               |
| Kentucky .....             | 66    | 1,436                        | 1,773                       | 17                      | 782                 | 10                   | 159                 | 39                       | 2,268               |
| Louisiana .....            | 15    | 35                           | 766                         | 1                       | (D)                 | 2                    | (D)                 | 12                       | 501                 |
| Maine .....                | 48    | 484                          | 297                         | 10                      | 103                 | 6                    | 46                  | 32                       | 632                 |
| Maryland .....             | 39    | 1,422                        | 307                         | 16                      | 1,314               | 6                    | 39                  | 17                       | 376                 |
| Massachusetts .....        | 57    | 1,514                        | 734                         | 9                       | 270                 | 9                    | 299                 | 39                       | 1,679               |
| Michigan .....             | 150   | 8,406                        | 2,953                       | 57                      | 5,234               | 20                   | 546                 | 73                       | 5,579               |
| Minnesota .....            | 149   | 7,460                        | 3,444                       | 80                      | 5,771               | 12                   | 209                 | 57                       | 4,924               |
| Mississippi .....          | 22    | 147                          | 714                         | -                       | -                   | 5                    | 104                 | 17                       | 757                 |
| Missouri .....             | 62    | 3,518                        | 7,661                       | 16                      | 1,779               | 8                    | 392                 | 38                       | 9,008               |
| Montana .....              | 38    | 14,215                       | 2,042                       | 21                      | 12,905              | 5                    | 97                  | 12                       | 3,255               |
| Nebraska .....             | 71    | 12,184                       | 2,826                       | 50                      | 12,255              | -                    | -                   | 21                       | 2,755               |
| Nevada .....               | 3     | (D)                          | (D)                         | 1                       | (D)                 | -                    | -                   | 2                        | (D)                 |
| New Hampshire .....        | 26    | 492                          | 260                         | 11                      | (D)                 | 1                    | (D)                 | 14                       | 402                 |
| New Jersey .....           | 24    | 352                          | 123                         | 4                       | (D)                 | 4                    | (D)                 | 16                       | 218                 |
| New Mexico .....           | 45    | 1,153                        | 13,267                      | 8                       | (D)                 | 2                    | (D)                 | 35                       | 13,524              |
| New York .....             | 158   | 6,911                        | 2,505                       | 62                      | 2,726               | 7                    | 80                  | 89                       | 6,610               |
| North Carolina .....       | 135   | 2,609                        | 1,374                       | 31                      | 1,770               | 7                    | 84                  | 97                       | 2,129               |
| North Dakota .....         | 24    | 3,285                        | 1,366                       | 21                      | (D)                 | -                    | -                   | 3                        | (D)                 |
| Ohio .....                 | 150   | 5,614                        | 1,523                       | 69                      | 3,892               | 18                   | 677                 | 63                       | 2,568               |
| Oklahoma .....             | 32    | 420                          | 5,067                       | 3                       | (D)                 | 7                    | (D)                 | 22                       | (D)                 |
| Oregon .....               | 149   | 6,008                        | 11,637                      | 39                      | 4,278               | 21                   | 251                 | 89                       | 13,116              |
| Pennsylvania .....         | 164   | 3,504                        | 2,519                       | 47                      | 1,193               | 22                   | 165                 | 95                       | 4,665               |
| Rhode Island .....         | 8     | (D)                          | (D)                         | 2                       | (D)                 | -                    | -                   | 6                        | 28                  |
| South Carolina .....       | 12    | (D)                          | (D)                         | 5                       | (D)                 | 1                    | (D)                 | 6                        | 69                  |
| South Dakota .....         | 21    | 1,891                        | 2,108                       | 16                      | 3,727               | -                    | -                   | 5                        | 272                 |
| Tennessee .....            | 25    | 112                          | 809                         | 1                       | (D)                 | 10                   | (D)                 | 14                       | (D)                 |
| Texas .....                | 181   | 4,879                        | 25,898                      | 16                      | 5,847               | 36                   | 1,386               | 129                      | 23,544              |
| Utah .....                 | 24    | 3,532                        | 170                         | 10                      | 3,343               | -                    | -                   | 14                       | 359                 |
| Vermont .....              | 65    | 2,905                        | 1,026                       | 23                      | 833                 | 5                    | 44                  | 37                       | 3,054               |
| Virginia .....             | 71    | 1,013                        | 1,464                       | 15                      | 1,076               | 12                   | 91                  | 44                       | 1,310               |
| Washington .....           | 193   | 8,223                        | 1,831                       | 93                      | 6,377               | 11                   | 570                 | 89                       | 3,107               |
| West Virginia .....        | 21    | 478                          | 737                         | -                       | -                   | 6                    | 49                  | 15                       | 1,166               |
| Wisconsin .....            | 297   | 11,575                       | 2,801                       | 156                     | 5,670               | 24                   | 424                 | 117                      | 8,282               |
| Wyoming .....              | 18    | 3,365                        | 14,640                      | 10                      | 11,856              | -                    | -                   | 8                        | 6,149               |

<sup>1</sup> Data include farms that reported transition acreage but are not certified organic or exempt organic farms.

**Table D. Relative Standard Error for Selected Organic Data: 2008**

[For meaning of abbreviations and symbols, see introductory text]

| Geographic area           | Organic land |                         |           |                         |          |                         |           |                         |                           |                         |           |                         |
|---------------------------|--------------|-------------------------|-----------|-------------------------|----------|-------------------------|-----------|-------------------------|---------------------------|-------------------------|-----------|-------------------------|
|                           | Total        |                         |           |                         | Cropland |                         |           |                         | Pastureland and rangeland |                         |           |                         |
|                           | Farms        |                         | Acres     |                         | Farms    |                         | Acres     |                         | Farms                     |                         | Acres     |                         |
|                           | Number       | Relative standard error | Number    | Relative standard error | Number   | Relative standard error | Number    | Relative standard error | Number                    | Relative standard error | Number    | Relative standard error |
| <b>United States ....</b> | 14,307       | 0.8                     | 4,077,337 | 2.0                     | 13,625   | 0.8                     | 2,229,558 | 0.8                     | 5,362                     | 0.7                     | 1,847,779 | 4.3                     |
| Alabama .....             | 31           | 7.1                     | 1,082     | 8.1                     | 29       | 6.9                     | 693       | 10.5                    | 15                        | 7.8                     | 389       | 6.9                     |
| Alaska .....              | 16           | 7.5                     | 441       | 9.3                     | 16       | 7.5                     | 441       | 9.3                     | -                         | -                       | -         | -                       |
| Arizona .....             | 60           | 4.1                     | 20,998    | 4.0                     | 57       | 4.0                     | 20,685    | 4.0                     | 11                        | 10.4                    | 313       | 9.2                     |
| Arkansas .....            | 34           | 5.9                     | 6,307     | 6.6                     | 31       | 6.2                     | 4,063     | 6.6                     | 18                        | 7.7                     | 2,244     | 7.2                     |
| California .....          | 2,691        | 3.1                     | 470,903   | 3.7                     | 2,600    | 3.1                     | 275,827   | 4.5                     | 319                       | 3.7                     | 195,076   | 5.6                     |
| Colorado .....            | 220          | 3.5                     | 153,981   | 4.7                     | 204      | 3.4                     | 123,455   | 5.1                     | 73                        | 4.8                     | 30,526    | 9.0                     |
| Connecticut .....         | 82           | 4.1                     | 1,122     | 11.8                    | 79       | 4.1                     | 644       | 10.3                    | 22                        | 9.7                     | 478       | 23.5                    |
| Delaware .....            | 8            | 6.0                     | 259       | 2.8                     | 7        | 6.0                     | 102       | 2.8                     | 3                         | 3.3                     | 157       | 2.8                     |
| Florida .....             | 172          | 5.2                     | 8,079     | 7.9                     | 164      | 5.2                     | 6,956     | 8.6                     | 20                        | 10.2                    | 1,123     | 18.4                    |
| Georgia .....             | 100          | 5.3                     | 4,535     | 18.5                    | 97       | 5.2                     | 3,767     | 22.0                    | 30                        | 8.5                     | 768       | 12.9                    |
| Hawaii .....              | 330          | 5.2                     | 10,554    | 4.3                     | 323      | 5.2                     | 2,417     | 4.0                     | 46                        | 6.6                     | 8,137     | 5.2                     |
| Idaho .....               | 254          | 2.4                     | 148,425   | 3.3                     | 251      | 2.4                     | 111,091   | 3.6                     | 79                        | 3.5                     | 37,334    | 7.5                     |
| Illinois .....            | 226          | 3.3                     | 30,662    | 2.5                     | 216      | 3.2                     | 25,623    | 2.8                     | 81                        | 4.3                     | 5,039     | 3.8                     |
| Indiana .....             | 142          | 3.2                     | 13,019    | 2.6                     | 131      | 3.2                     | 9,137     | 2.6                     | 81                        | 3.0                     | 3,882     | 3.3                     |
| Iowa .....                | 513          | 1.3                     | 94,568    | 2.5                     | 502      | 1.4                     | 77,491    | 2.5                     | 229                       | 2.5                     | 17,077    | 5.3                     |
| Kansas .....              | 108          | 4.2                     | 53,140    | 4.4                     | 101      | 4.2                     | 44,821    | 4.4                     | 43                        | 5.4                     | 8,319     | 7.1                     |
| Kentucky .....            | 101          | 4.8                     | 6,768     | 3.5                     | 92       | 4.7                     | 3,390     | 3.8                     | 46                        | 5.3                     | 3,378     | 4.0                     |
| Louisiana .....           | 23           | 7.6                     | 2,151     | 5.1                     | 19       | 8.4                     | 1,232     | 7.0                     | 11                        | 10.4                    | 919       | 6.4                     |
| Maine .....               | 376          | 4.3                     | 28,265    | 3.4                     | 366      | 4.3                     | 20,488    | 3.5                     | 153                       | 4.2                     | 7,777     | 4.7                     |
| Maryland .....            | 128          | 4.4                     | 9,152     | 5.1                     | 120      | 4.6                     | 5,883     | 5.7                     | 47                        | 6.7                     | 3,269     | 6.8                     |
| Massachusetts ...         | 169          | 5.3                     | 4,403     | 5.4                     | 164      | 5.2                     | 2,925     | 5.4                     | 60                        | 7.0                     | 1,478     | 7.0                     |
| Michigan .....            | 446          | 3.6                     | 68,167    | 2.2                     | 430      | 3.5                     | 61,478    | 2.1                     | 158                       | 4.3                     | 6,689     | 6.6                     |
| Minnesota .....           | 543          | 2.7                     | 122,428   | 2.5                     | 526      | 2.6                     | 106,066   | 2.6                     | 268                       | 3.1                     | 16,362    | 6.1                     |
| Mississippi .....         | 31           | 11.6                    | 1,348     | 14.8                    | 27       | 12.3                    | 516       | 9.6                     | 16                        | 14.1                    | 832       | 18.5                    |
| Missouri .....            | 191          | 4.7                     | 30,195    | 3.5                     | 180      | 4.7                     | 21,611    | 3.8                     | 78                        | 5.4                     | 8,584     | 4.9                     |
| Montana .....             | 173          | 3.2                     | 284,482   | 3.6                     | 164      | 3.1                     | 167,800   | 2.6                     | 71                        | 4.1                     | 116,682   | 7.0                     |
| Nebraska .....            | 162          | 2.2                     | 146,188   | 12.0                    | 156      | 2.2                     | 76,322    | 3.6                     | 68                        | 4.0                     | 69,866    | 25.1                    |
| Nevada .....              | 26           | 4.8                     | 4,153     | 3.5                     | 22       | 4.6                     | 3,967     | 3.5                     | 7                         | 8.8                     | 186       | 19.3                    |
| New Hampshire .           | 99           | 4.9                     | 8,447     | 2.9                     | 93       | 5.2                     | 6,868     | 2.5                     | 42                        | 6.8                     | 1,579     | 7.0                     |
| New Jersey .....          | 122          | 2.9                     | 3,329     | 8.7                     | 117      | 3.0                     | 2,725     | 8.6                     | 37                        | 6.3                     | 604       | 11.6                    |
| New Mexico .....          | 199          | 4.9                     | 117,676   | 9.7                     | 185      | 5.0                     | 31,562    | 5.0                     | 55                        | 6.8                     | 86,114    | 13.0                    |
| New York .....            | 819          | 2.8                     | 168,428   | 1.7                     | 791      | 2.8                     | 128,884   | 1.9                     | 475                       | 2.4                     | 39,544    | 1.8                     |
| North Carolina ...        | 219          | 4.7                     | 9,618     | 4.8                     | 200      | 4.7                     | 7,388     | 5.8                     | 63                        | 6.2                     | 2,230     | 5.5                     |
| North Dakota .....        | 127          | 2.2                     | 152,728   | 3.1                     | 126      | 2.2                     | 108,536   | 2.7                     | 61                        | 4.1                     | 44,192    | 6.0                     |
| Ohio .....                | 535          | 3.2                     | 61,996    | 2.1                     | 501      | 3.1                     | 50,220    | 2.2                     | 284                       | 3.0                     | 11,776    | 2.8                     |
| Oklahoma .....            | 88           | 5.5                     | 29,591    | 4.0                     | 75       | 5.5                     | 19,057    | 5.2                     | 42                        | 7.7                     | 10,534    | 3.3                     |
| Oregon .....              | 657          | 3.7                     | 105,605   | 1.4                     | 597      | 3.6                     | 70,946    | 1.5                     | 238                       | 3.8                     | 34,659    | 2.0                     |
| Pennsylvania .....        | 556          | 2.6                     | 53,624    | 2.1                     | 521      | 2.6                     | 39,526    | 2.3                     | 336                       | 2.6                     | 14,098    | 2.5                     |
| Rhode Island .....        | 28           | 6.1                     | 205       | 5.2                     | 28       | 6.1                     | 174       | 4.1                     | 7                         | 13.4                    | 31        | 16.8                    |
| South Carolina ...        | 34           | 7.4                     | 1,025     | 6.1                     | 33       | 7.4                     | 712       | 3.7                     | 15                        | 11.4                    | 313       | 12.9                    |
| South Dakota .....        | 103          | 2.5                     | 132,047   | 8.7                     | 99       | 2.5                     | 61,063    | 2.9                     | 62                        | 3.3                     | 70,984    | 16.0                    |
| Tennessee .....           | 83           | 3.1                     | 2,000     | 4.3                     | 68       | 3.6                     | 836       | 5.0                     | 37                        | 5.0                     | 1,164     | 5.4                     |
| Texas .....               | 355          | 4.3                     | 314,279   | 16.2                    | 297      | 4.1                     | 71,543    | 2.7                     | 139                       | 6.0                     | 242,736   | 21.0                    |
| Utah .....                | 93           | 4.3                     | 144,228   | 2.9                     | 85       | 4.1                     | 111,663   | 3.3                     | 40                        | 6.0                     | 32,565    | 3.2                     |
| Vermont .....             | 463          | 2.7                     | 77,509    | 2.5                     | 446      | 2.7                     | 56,462    | 2.8                     | 286                       | 2.9                     | 21,047    | 3.0                     |
| Virginia .....            | 169          | 5.4                     | 12,308    | 5.7                     | 158      | 5.4                     | 7,144     | 5.7                     | 67                        | 6.5                     | 5,164     | 6.7                     |
| Washington .....          | 886          | 3.2                     | 82,216    | 1.6                     | 858      | 3.1                     | 65,937    | 1.6                     | 228                       | 4.3                     | 16,279    | 3.1                     |
| West Virginia .....       | 53           | 6.8                     | 1,953     | 5.9                     | 49       | 6.8                     | 1,476     | 5.8                     | 23                        | 8.3                     | 477       | 8.6                     |
| Wisconsin .....           | 1,202        | 3.0                     | 195,603   | 1.5                     | 1,167    | 2.9                     | 148,150   | 1.5                     | 751                       | 2.4                     | 47,453    | 1.8                     |
| Wyoming .....             | 61           | 3.9                     | 677,147   | 8.2                     | 57       | 3.7                     | 59,795    | 4.0                     | 21                        | 6.7                     | 617,352   | 8.9                     |

--continued

Table D. **Relative Standard Error for Selected Organic Data: 2008 - Con.**

[For meaning of abbreviations and symbols, see introductory text]

| Geographic area            | Organic sales |                         |           |                         |        |                         |           |                         |                       |                         |         |                         |
|----------------------------|---------------|-------------------------|-----------|-------------------------|--------|-------------------------|-----------|-------------------------|-----------------------|-------------------------|---------|-------------------------|
|                            | Total         |                         |           |                         | Crops  |                         |           |                         | Livestock and poultry |                         |         |                         |
|                            | Farms         |                         | Value     |                         | Farms  |                         | Value     |                         | Farms                 |                         | Value   |                         |
|                            | Number        | Relative standard error | \$1,000   | Relative standard error | Number | Relative standard error | \$1,000   | Relative standard error | Number                | Relative standard error | \$1,000 | Relative standard error |
| <b>United States</b> ..... | 13,776        | 0.8                     | 3,164,995 | 1.0                     | 11,891 | 0.8                     | 1,942,317 | 1.3                     | 3,353                 | 0.7                     | 316,470 | 4.6                     |
| Alabama .....              | 26            | 7.9                     | (D)       | (D)                     | 23     | 7.8                     | 40        | 9.7                     | 5                     | 7.4                     | (D)     | (D)                     |
| Alaska .....               | 16            | 7.5                     | 472       | 8.7                     | 15     | 7.5                     | (D)       | (D)                     | 1                     | 54.8                    | (D)     | (D)                     |
| Arizona .....              | 59            | 4.2                     | 42,077    | 2.4                     | 50     | 3.8                     | (D)       | (D)                     | 8                     | 10.8                    | 273     | 3.1                     |
| Arkansas .....             | 35            | 6.0                     | 12,848    | 23.0                    | 20     | 8.2                     | 1,406     | 8.1                     | 21                    | 7.4                     | 411     | 9.3                     |
| California .....           | 2,580         | 3.0                     | 1,148,650 | 2.3                     | 2,438  | 3.1                     | 839,033   | 2.6                     | 191                   | 3.3                     | 145,749 | 7.2                     |
| Colorado .....             | 206           | 3.3                     | 70,231    | 4.7                     | 188    | 3.4                     | 37,953    | 5.0                     | 23                    | 7.2                     | (D)     | (D)                     |
| Connecticut .....          | 80            | 4.1                     | 5,163     | 11.9                    | 75     | 4.1                     | 5,138     | 12.0                    | 7                     | 17.4                    | 11      | 14.8                    |
| Delaware .....             | 8             | 6.0                     | (D)       | (D)                     | 7      | 6.0                     | (D)       | (D)                     | 1                     | 8.0                     | (D)     | (D)                     |
| Florida .....              | 168           | 5.1                     | 43,400    | 14.0                    | 160    | 5.2                     | (D)       | (D)                     | 13                    | 11.2                    | (D)     | (D)                     |
| Georgia .....              | 96            | 5.3                     | 5,846     | 5.5                     | 91     | 5.3                     | 5,822     | 5.5                     | 11                    | 13.6                    | 17      | 16.4                    |
| Hawaii .....               | 314           | 5.1                     | 10,078    | 4.2                     | 300    | 5.2                     | 9,482     | 4.4                     | 25                    | 6.8                     | (D)     | (D)                     |
| Idaho .....                | 250           | 2.4                     | 71,250    | 2.8                     | 229    | 2.5                     | 33,627    | 2.6                     | 49                    | 4.7                     | 5,180   | 9.6                     |
| Illinois .....             | 215           | 3.2                     | 23,571    | 3.3                     | 207    | 3.2                     | 17,868    | 3.4                     | 37                    | 5.7                     | 1,088   | 17.4                    |
| Indiana .....              | 134           | 3.1                     | 13,877    | 3.0                     | 102    | 3.7                     | 3,960     | 3.0                     | 65                    | 2.9                     | 650     | 3.5                     |
| Iowa .....                 | 494           | 1.4                     | 71,545    | 3.8                     | 439    | 1.6                     | 36,306    | 2.8                     | 150                   | 3.2                     | 14,679  | 12.4                    |
| Kansas .....               | 91            | 4.3                     | 14,466    | 15.5                    | 86     | 4.2                     | 10,585    | 5.6                     | 13                    | 10.0                    | (D)     | (D)                     |
| Kentucky .....             | 101           | 4.7                     | 2,445     | 5.5                     | 86     | 4.8                     | 1,200     | 7.9                     | 24                    | 5.4                     | 479     | 5.1                     |
| Louisiana .....            | 16            | 8.8                     | 2,081     | 1.3                     | 13     | 10.7                    | 142       | 14.4                    | 3                     | 10.2                    | (D)     | (D)                     |
| Maine .....                | 368           | 4.2                     | 30,675    | 2.6                     | 345    | 4.3                     | 15,626    | 3.9                     | 97                    | 4.1                     | 1,171   | 7.4                     |
| Maryland .....             | 114           | 4.4                     | 10,403    | 12.1                    | 105    | 4.5                     | 4,934     | 6.3                     | 26                    | 7.9                     | 400     | 19.7                    |
| Massachusetts ...          | 170           | 5.2                     | 15,082    | 5.0                     | 162    | 5.2                     | 10,332    | 4.6                     | 28                    | 8.5                     | 407     | 11.0                    |
| Michigan .....             | 442           | 3.6                     | 71,111    | 6.5                     | 397    | 3.4                     | 40,385    | 2.4                     | 112                   | 4.0                     | 5,261   | 7.7                     |
| Minnesota .....            | 539           | 2.6                     | 69,053    | 1.9                     | 454    | 2.8                     | 41,180    | 2.7                     | 166                   | 3.4                     | 3,113   | 5.1                     |
| Mississippi .....          | 25            | 13.3                    | (D)       | (D)                     | 21     | 14.6                    | 118       | 10.5                    | 8                     | 18.2                    | (D)     | (D)                     |
| Missouri .....             | 185           | 4.7                     | 9,324     | 5.4                     | 163    | 4.7                     | 6,214     | 7.4                     | 43                    | 5.4                     | 1,207   | 6.8                     |
| Montana .....              | 165           | 3.1                     | 25,383    | 4.2                     | 158    | 3.0                     | 24,005    | 4.4                     | 26                    | 4.4                     | 1,223   | 7.8                     |
| Nebraska .....             | 157           | 2.2                     | 48,636    | 19.0                    | 151    | 2.3                     | 26,492    | 4.2                     | 29                    | 7.0                     | 21,549  | 43.5                    |
| Nevada .....               | 25            | 4.7                     | 2,801     | 1.5                     | 22     | 4.6                     | 2,749     | 1.5                     | 5                     | 8.3                     | (D)     | (D)                     |
| New Hampshire ..           | 99            | 5.0                     | 10,721    | 4.5                     | 92     | 5.3                     | 2,987     | 3.3                     | 23                    | 9.4                     | 1,115   | 17.2                    |
| New Jersey .....           | 118           | 3.0                     | 2,602     | 5.0                     | 111    | 3.2                     | 2,389     | 5.1                     | 13                    | 8.9                     | 188     | 8.7                     |
| New Mexico .....           | 183           | 4.9                     | 33,465    | 5.0                     | 168    | 5.1                     | 8,203     | 3.6                     | 27                    | 6.5                     | (D)     | (D)                     |
| New York .....             | 788           | 2.7                     | 105,133   | 1.3                     | 599    | 3.2                     | 40,401    | 2.2                     | 298                   | 2.0                     | 4,130   | 4.4                     |
| North Carolina ...         | 244           | 4.3                     | 52,796    | 4.8                     | 187    | 4.8                     | 13,370    | 7.3                     | 68                    | 4.6                     | 28,362  | 6.3                     |
| North Dakota .....         | 118           | 2.1                     | 19,671    | 3.1                     | 116    | 2.1                     | 18,564    | 3.1                     | 20                    | 7.6                     | 1,107   | 9.1                     |
| Ohio .....                 | 507           | 3.1                     | 42,765    | 1.8                     | 398    | 3.5                     | 17,742    | 2.7                     | 169                   | 2.8                     | 1,804   | 3.7                     |
| Oklahoma .....             | 71            | 5.5                     | 5,604     | 6.0                     | 63     | 5.7                     | 3,004     | 2.7                     | 16                    | 9.7                     | 1,193   | 27.3                    |
| Oregon .....               | 637           | 3.6                     | 155,613   | 1.6                     | 547    | 3.7                     | 81,641    | 1.1                     | 123                   | 3.4                     | 4,911   | 5.3                     |
| Pennsylvania .....         | 551           | 2.4                     | 212,739   | 3.7                     | 388    | 3.1                     | 126,558   | 5.3                     | 291                   | 2.0                     | 20,790  | 9.3                     |
| Rhode Island .....         | 26            | 6.0                     | 1,117     | 4.6                     | 26     | 6.0                     | 1,117     | 4.6                     | -                     | -                       | -       | -                       |
| South Carolina ...         | 32            | 7.4                     | 1,714     | 1.7                     | 32     | 7.4                     | 1,704     | 1.6                     | 4                     | 33.0                    | 6       | 18.6                    |
| South Dakota .....         | 97            | 2.6                     | 15,148    | 6.4                     | 85     | 3.0                     | 11,486    | 4.0                     | 29                    | 5.1                     | (D)     | (D)                     |
| Tennessee .....            | 77            | 3.3                     | 1,226     | 5.3                     | 62     | 3.7                     | 1,105     | 5.8                     | 21                    | 6.8                     | 114     | 7.4                     |
| Texas .....                | 333           | 4.2                     | 149,328   | 3.3                     | 257    | 3.8                     | 43,276    | 3.9                     | 91                    | 6.1                     | 14,983  | 8.8                     |
| Utah .....                 | 88            | 4.2                     | 12,757    | 2.1                     | 73     | 4.1                     | 11,136    | 2.3                     | 20                    | 7.9                     | (D)     | (D)                     |
| Vermont .....              | 451           | 2.6                     | 72,857    | 2.2                     | 390    | 2.8                     | 25,006    | 3.3                     | 202                   | 2.8                     | 3,814   | 3.8                     |
| Virginia .....             | 156           | 5.4                     | 19,191    | 4.8                     | 138    | 5.8                     | 5,367     | 7.1                     | 36                    | 6.9                     | 1,068   | 13.2                    |
| Washington .....           | 862           | 3.1                     | 281,970   | 2.2                     | 803    | 3.2                     | 230,008   | 2.6                     | 103                   | 4.0                     | 4,449   | 3.6                     |
| West Virginia .....        | 46            | 7.1                     | 409       | 5.6                     | 42     | 6.9                     | 385       | 5.7                     | 13                    | 9.1                     | 20      | 8.7                     |
| Wisconsin .....            | 1,152         | 2.9                     | 132,764   | 1.0                     | 751    | 3.6                     | 30,128    | 2.0                     | 578                   | 1.9                     | 9,782   | 2.0                     |
| Wyoming .....              | 61            | 3.9                     | 13,523    | 3.2                     | 56     | 3.8                     | 11,153    | 3.1                     | 21                    | 6.6                     | (D)     | (D)                     |