

# Washington Vineyard Acreage Report 2017

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Compiled by USDA/NATIONAL AGRICULTURAL STATISTICS SERVICE  
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Source: Washington State Wine Commission.

## Remarks About These Data

The 2017 Grape and Tree Fruit Acreage Inventory by Variety Study was designed to measure the details about the Washington Grape and Tree Fruit industries. This is the seventh time a survey of this type has been conducted in Washington. Previous surveys were conducted in 1948-49, 1986, 1993, 2001, 2006, and 2011. Comparisons to previous data are shown in the publication. Statistics regarding tree fruit will be released in a separate publication. The following are some notes regarding the data.

The survey was supported by all of the major fruit organizations and publicized in many newsletters and industry publications. Producers were sent pre-survey letters, endorsed by the coalition of Northwest tree fruit organizations, explaining the intent and need to report. An example of the pre-survey letter is included in the appendix of this report.

The survey included all those operations thought to have five or more acres of tree fruit or one or more acres of grapes. The list sample included over 2,900 operations. The modes of data collection included mail, telephone, and personal interview. Nearly all operations were given an opportunity to respond by mail beginning in January 2017. A copy of the questionnaire and respondent booklet are included in this report. The beginning date of data collection was January 23, 2017. All medium and most smaller operations were contacted by telephone. Large operations, defined as those thought to have greater than 500 acres of fruit or those with significant amounts of less prevalent fruit, were followed up with face-to-face interviews. When possible, efforts were made to use grower electronic records. Over 11,450 individual blocks of fruit information from approximately 1,300 growers who reported one or more blocks of tree fruit or grapes were tabulated.

There were several measures employed to assure data quality. Telephone data collection was conducted using a computerized survey instrument. The survey instrument included prompts to the interviewer when unusual situations were encountered. An example would be an extremely high or low planting density. All records, including those collected by mail and face-to-face interviews, were reviewed within a computerized interactive editing system. This process ensured that records were internally consistent (e.g. acres in blocks of fruit add up to total fruit acres reported). Some data errors can best be identified by reviewing all records meeting a particular criterion. For example, a review of all Merlot grape blocks planted in the past five years, sorted by vines per acre, would highlight blocks with unusually high or low planting densities. The data in this survey were reviewed in an interactive analysis system that would facilitate these types of reviews.

A small number of operations were able to provide only partial block level information. In these cases, the averages from the reported data were used to complete the block level data. For example, a partially responding ten acre block of Chardonnay grapes planted in 2006 would have been given the vines per acre average from responding blocks of the same characteristics to estimate the total number of vines for the block.

Block level data from responding vineyards represented approximately 52 percent of the published totals for total grapes. The survey data totals were analyzed by American Viticultural Area (AVA) for reasonableness. Also, grape acreage totals from county assessor offices, data from the 2012 Census of Agriculture, the previous grape acreage survey, vineyard data from WSDA's GIS layer, and other industry data at the AVA level were considered in setting grape acreage "targets" at the state level and by AVA.

Once the targets were set, the adjustments were carried through to each individual responding block of data. The same adjustment process utilized in the Census of Agriculture, known as calibration, where the weights of responding blocks of fruit are adjusted within tolerance ranges of the targets was used. Before adjustment, responding fruit blocks had weights of one; after adjustment the block could receive a weight varying from one to a maximum weight of six. This means, for example, that a reported ten acre block of Chardonnay grapes containing 8250 vines might have received a weight of 2.0. After weighting, the block of fruit would have contributed 20 acres and 16,500 vines to the published totals.

This report includes data for the three newest AVA's – Ancient Lakes AVA, Lewis – Clark Valley AVA, and Naches Heights AVA. A few areas of the state are not included in an AVA. For example, wine grape growing areas near the Columbia Gorge AVA and in the Stevens county area. The total acreage outside an established AVA is relatively small and these areas were collapsed into the Columbia Valley AVA. The Walla Walla and Columbia Gorge AVA's include parts of Oregon. The data in this report detail the Washington portions of these AVA's.

Data included in "other varieties" include varieties with minimal acreage, unknown varieties, or varieties not published to avoid disclosure of individual operations. Almost certainly, some acres of the published varieties are included in this other category when the respondent did not designate the variety. The red varieties of wine grapes reported but not published include: Campbell Early, Carmenere, Cinsault, Cournoise, Dolcetto, Gamay Beaujolais, Gamay Noir, Leon Milot, Marechal Foch, Nebbiolo, Souzao, Tinto Cao, Touriga, and Tinta Madeira. The white varieties of wine grapes reported but not published include: Aligote, Aurore, Chasselas, Madeline Angevine, Madeline Sylvaner, Mueller-Thurgau, Muscat of Alexandria, Muscat Ottonel, Orange Muscat, Pinot Blanc, and Siegerrebe.

## Wine Grapes: Acreage by Variety, Historic Comparisons, Washington, January 1, 1993-2017

| Variety                     | 1993<br>(acres) | 1999<br>(acres) | 2002<br>(acres) | 2006<br>(acres) | 2011<br>(acres) | 2017<br>(acres) |
|-----------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| White varieties .....       |                 |                 |                 |                 |                 |                 |
| Chardonnay .....            | 2,600           | 6,100           | 6,640           | 5,992           | 7,654           | 7,782           |
| Chenin Blanc .....          | 600             | 400             | 450             | 233             | 207             | 67              |
| Gewurtztraminer .....       | 300             | 400             | 670             | 632             | 775             | 405             |
| Muscat Canelli .....        | -               | 110             | 100             | 146             | 177             | 133             |
| Pinot Gris .....            | -               | 150             | 330             | 488             | 1,576           | 2,123           |
| Rousanne .....              | -               | -               | -               | -               | 65              | 71              |
| Sauvignon Blanc .....       | 800             | 700             | 710             | 993             | 1,173           | 1,451           |
| Semillon .....              | 700             | 600             | 550             | 235             | 222             | 235             |
| Viognier .....              | -               | 60              | 230             | 362             | 390             | 402             |
| White Riesling .....        | 2,000           | 1,900           | 2,200           | 4,404           | 6,320           | 6,695           |
| Other white .....           | 100             | 80              | 120             | 164             | 292             | 230             |
| Total white varieties ..... | 7,100           | 10,500          | 12,000          | 13,649          | 18,851          | 19,593          |
| Red varieties .....         |                 |                 |                 |                 |                 |                 |
| Barbera .....               | -               | -               | -               | -               | 70              | 40              |
| Cabernet Franc .....        | 150             | 700             | 750             | 1,157           | 972             | 685             |
| Cabernet Sauvignon .....    | 1,400           | 5,000           | 6,050           | 5,959           | 10,293          | 18,608          |
| Grenache .....              | -               | -               | -               | 145             | 261             | 212             |
| Lemberger .....             | 150             | 150             | 230             | 79              | 73              | 54              |
| Malbec .....                | -               | 50              | 90              | 196             | 378             | 579             |
| Merlot .....                | 1,800           | 5,600           | 5,980           | 5,853           | 8,235           | 9,071           |
| Mouvedre .....              | -               | -               | -               | 96              | 165             | 126             |
| Petit Verdot .....          | -               | -               | -               | 131             | 301             | 254             |
| Pinot Noir .....            | 250             | 200             | 290             | 314             | 307             | 506             |
| Sangiovese .....            | -               | 100             | 220             | 206             | 185             | 134             |
| Syrah .....                 | -               | 1,500           | 2,100           | 2,831           | 3,103           | 4,572           |
| Tempranillo .....           | -               | -               | -               | -               | 94              | 73              |
| Zinfandel .....             | -               | 50              | 70              | 67              | 89              | 65              |
| Other red .....             | 250             | 150             | 220             | 317             | 472             | 874             |
| Total red varieties .....   | 4,000           | 13,500          | 16,000          | 17,351          | 24,998          | 35,852          |
| All varieties .....         | 11,100          | 24,000          | 28,000          | 31,000          | 43,849          | 55,445          |

- Represents zero or data not published to avoid disclosure of individual operations.

**Wine Grapes: Acres by Variety and American Viticultural Area, Washington, January 1, 2017**

| Variety                            | American Viticultural Area |                |                 |                    |             |                    |                |             |
|------------------------------------|----------------------------|----------------|-----------------|--------------------|-------------|--------------------|----------------|-------------|
|                                    | Ancient Lakes              | Columbia Gorge | Columbia Valley | Horse Heaven Hills | Lake Chelan | Lewis-Clark Valley | Naches Heights | Puget Sound |
|                                    | (acres)                    | (acres)        | (acres)         | (acres)            | (acres)     | (acres)            | (acres)        | (acres)     |
| <b>White varieties</b>             |                            |                |                 |                    |             |                    |                |             |
| Chardonnay .....                   | -                          | 46             | 581             | 1,805              | 20          | -                  | -              | 5           |
| Chenin Blanc .....                 | -                          | -              | -               | -                  | -           | -                  | -              | -           |
| Gewurtztraminer .....              | -                          | 15             | 16              | -                  | -           | -                  | -              | -           |
| Muscat Canelli .....               | -                          | -              | -               | -                  | -           | -                  | -              | -           |
| Pinot Gris .....                   | -                          | 25             | 120             | 376                | 16          | -                  | 5              | 4           |
| Rousanne .....                     | -                          | -              | 3               | -                  | -           | -                  | -              | -           |
| Sauvignon Blanc .....              | -                          | -              | 103             | 858                | 5           | -                  | 4              | 1           |
| Semillon .....                     | -                          | -              | -               | -                  | -           | -                  | -              | -           |
| Viognier .....                     | -                          | -              | 29              | 71                 | -           | -                  | -              | -           |
| White Riesling .....               | -                          | 23             | 512             | 1,450              | -           | -                  | -              | -           |
| Other white .....                  | -                          | 21             | 61              | 22                 | -           | -                  | 3              | 29          |
| <b>Total white varieties .....</b> | <b>-</b>                   | <b>139</b>     | <b>1,467</b>    | <b>4,812</b>       | <b>65</b>   | <b>-</b>           | <b>22</b>      | <b>40</b>   |
| <b>Red varieties</b>               |                            |                |                 |                    |             |                    |                |             |
| Barbera .....                      | -                          | -              | 10              | 13                 | -           | -                  | -              | -           |
| Cabernet Franc .....               | -                          | -              | 121             | 141                | 8           | -                  | -              | -           |
| Cabernet Sauvignon .....           | -                          | -              | 4,199           | 6,324              | -           | -                  | -              | -           |
| Grenache .....                     | -                          | -              | 29              | 65                 | -           | -                  | -              | -           |
| Lemberger .....                    | -                          | -              | -               | -                  | -           | -                  | -              | -           |
| Malbec .....                       | -                          | 17             | 180             | 156                | -           | -                  | -              | -           |
| Merlot .....                       | -                          | -              | 1,018           | 2,412              | 15          | -                  | -              | -           |
| Mouvedre .....                     | -                          | -              | -               | 39                 | -           | -                  | -              | -           |
| Petit Verdot .....                 | -                          | -              | 68              | 39                 | -           | -                  | -              | -           |
| Pinot Noir .....                   | -                          | 56             | 26              | -                  | 12          | -                  | -              | 46          |
| Sangiovese .....                   | -                          | -              | 28              | -                  | -           | -                  | -              | -           |
| Syrah .....                        | -                          | 14             | 788             | 818                | 39          | -                  | 4              | -           |
| Tempranillo .....                  | -                          | -              | 7               | -                  | -           | -                  | -              | -           |
| Zinfandel .....                    | -                          | -              | 2               | -                  | -           | -                  | -              | -           |
| Other red .....                    | -                          | 17             | 60              | 48                 | -           | -                  | -              | 2           |
| <b>Total red varieties .....</b>   | <b>-</b>                   | <b>216</b>     | <b>6,544</b>    | <b>10,098</b>      | <b>199</b>  | <b>-</b>           | <b>23</b>      | <b>62</b>   |
| <b>All varieties .....</b>         | <b>-</b>                   | <b>355</b>     | <b>8,010</b>    | <b>14,909</b>      | <b>264</b>  | <b>-</b>           | <b>45</b>      | <b>102</b>  |

See footnote(s) at end of table.

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**Wine Grapes: Acres by Variety and American Viticultural Area, Washington,  
January 1, 2017 (continued)**

| Variety                           | American Viticultural Area |              |                 |               |                    |               |               |
|-----------------------------------|----------------------------|--------------|-----------------|---------------|--------------------|---------------|---------------|
|                                   | Rattlesnake Hills          | Red Mountain | Snipes Mountain | Wahluke Slope | Walla Walla Valley | Yakima Valley | Washington    |
|                                   | (acres)                    | (acres)      | (acres)         | (acres)       | (acres)            | (acres)       | (acres)       |
| <b>White varieties</b>            |                            |              |                 |               |                    |               |               |
| Chardonnay.....                   | -                          | -            | 112             | 829           | -                  | 4,005         | 7,782         |
| Chenin Blanc.....                 | -                          | -            | -               | -             | -                  | 40            | 67            |
| Gewurtztraminer.....              | -                          | -            | -               | -             | -                  | 191           | 405           |
| Muscat Canelli.....               | -                          | -            | -               | -             | -                  | 88            | 133           |
| Pinot Gris.....                   | -                          | -            | -               | -             | -                  | 1,233         | 2,123         |
| Rousanne.....                     | -                          | -            | -               | -             | -                  | -             | 71            |
| Sauvignon Blanc.....              | 29                         | -            | -               | -             | 4                  | 363           | 1,451         |
| Semillon.....                     | 5                          | -            | -               | -             | -                  | 90            | 235           |
| Viognier.....                     | -                          | -            | -               | -             | 15                 | -             | 402           |
| White Riesling.....               | 352                        | -            | 74              | 343           | -                  | 3,345         | 6,695         |
| Other white.....                  | 24                         | -            | -               | -             | 10                 | 41            | 230           |
| <b>Total white varieties.....</b> | <b>697</b>                 | <b>75</b>    | <b>238</b>      | <b>1,396</b>  | <b>65</b>          | <b>9,434</b>  | <b>19,593</b> |
| <b>Red varieties</b>              |                            |              |                 |               |                    |               |               |
| Barbera.....                      | -                          | -            | -               | -             | -                  | -             | 40            |
| Cabernet Franc.....               | 19                         | 56           | -               | 100           | 56                 | 173           | 685           |
| Cabernet Sauvignon.....           | 310                        | 1,126        | 186             | 3,686         | 820                | 1,877         | 18,608        |
| Grenache.....                     | -                          | 18           | -               | 39            | -                  | 29            | 212           |
| Lemberger.....                    | -                          | -            | -               | -             | -                  | -             | 54            |
| Malbec.....                       | 50                         | 30           | -               | 57            | 48                 | 12            | 579           |
| Merlot.....                       | 473                        | 280          | 166             | 2,137         | 236                | 2,282         | 9,071         |
| Mouvedre.....                     | -                          | 8            | -               | 53            | -                  | -             | 126           |
| Petit Verdot.....                 | 21                         | 17           | -               | 75            | 18                 | -             | 254           |
| Pinot Noir.....                   | -                          | -            | -               | -             | -                  | 311           | 506           |
| Sangiovese.....                   | 5                          | 12           | -               | -             | 10                 | 32            | 134           |
| Syrah.....                        | 199                        | 216          | 77              | 398           | 301                | 1,711         | 4,572         |
| Tempranillo.....                  | -                          | -            | -               | -             | 26                 | -             | 73            |
| Zinfandel.....                    | -                          | -            | -               | -             | -                  | -             | 65            |
| Other red.....                    | 9                          | 7            | -               | 45            | -                  | 78            | 874           |
| <b>Total red varieties.....</b>   | <b>1,110</b>               | <b>1,810</b> | <b>511</b>      | <b>6,648</b>  | <b>1,581</b>       | <b>6,530</b>  | <b>35,852</b> |
| <b>All varieties.....</b>         | <b>1,807</b>               | <b>1,885</b> | <b>749</b>      | <b>8,045</b>  | <b>1,645</b>       | <b>15,963</b> | <b>55,445</b> |

- Represents zero or data not published to avoid disclosure of individual operations.

**Wine Grapes: Vines by Variety and American Viticultural Area, Washington, January 1, 2017**

| Variety                            | American Viticultural Area |                |                  |                    |                |                    |                |                |
|------------------------------------|----------------------------|----------------|------------------|--------------------|----------------|--------------------|----------------|----------------|
|                                    | Ancient Lakes              | Columbia Gorge | Columbia Valley  | Horse Heaven Hills | Lake Chelan    | Lewis-Clark Valley | Naches Heights | Puget Sound    |
|                                    | (vines)                    | (vines)        | (vines)          | (vines)            | (vines)        | (vines)            | (vines)        | (vines)        |
| <b>White varieties</b>             |                            |                |                  |                    |                |                    |                |                |
| Chardonnay .....                   | -                          | 40,097         | 458,888          | 1,513,967          | 20,859         | -                  | -              | 7,421          |
| Chenin Blanc .....                 | -                          | -              | -                | -                  | -              | -                  | -              | -              |
| Gewurtztraminer .....              | -                          | 12,250         | 13,609           | -                  | -              | -                  | -              | -              |
| Muscat Canelli .....               | -                          | -              | -                | -                  | -              | -                  | -              | -              |
| Pinot Gris .....                   | -                          | 20,873         | 115,050          | 327,857            | 17,405         | -                  | 7,021          | 3,512          |
| Rousanne .....                     | -                          | -              | 3,821            | -                  | -              | -                  | -              | -              |
| Sauvignon Blanc .....              | -                          | -              | 70,674           | 679,320            | 5,402          | -                  | 3,950          | 1,126          |
| Semillon .....                     | -                          | -              | -                | -                  | -              | -                  | -              | -              |
| Viognier .....                     | -                          | -              | 23,444           | 58,065             | -              | -                  | -              | -              |
| White Riesling .....               | -                          | 18,625         | 481,750          | 1,606,452          | -              | -                  | -              | -              |
| Other white .....                  | -                          | 16,431         | 57,816           | 19,415             | 16,160         | -                  | 4,477          | 41,090         |
| <b>Total white varieties .....</b> | <b>-</b>                   | <b>115,876</b> | <b>1,252,204</b> | <b>4,377,791</b>   | <b>71,085</b>  | <b>-</b>           | <b>26,762</b>  | <b>53,649</b>  |
| <b>Red varieties</b>               |                            |                |                  |                    |                |                    |                |                |
| Barbera .....                      | -                          | -              | 7,817            | 11,595             | -              | -                  | -              | -              |
| Cabernet Franc .....               | -                          | -              | 99,081           | 143,126            | 8,164          | -                  | -              | -              |
| Cabernet Sauvignon .....           | -                          | -              | 4,273,136        | 5,683,908          | -              | -                  | -              | -              |
| Grenache .....                     | -                          | -              | 31,721           | 52,275             | -              | -                  | -              | -              |
| Lemberger .....                    | -                          | -              | -                | -                  | -              | -                  | -              | -              |
| Malbec .....                       | -                          | 17,461         | 167,371          | 147,858            | -              | -                  | -              | -              |
| Merlot .....                       | -                          | -              | 976,771          | 2,107,176          | 15,192         | -                  | -              | -              |
| Mouvedre .....                     | -                          | -              | -                | 33,427             | -              | -                  | -              | -              |
| Petit Verdot .....                 | -                          | -              | 68,756           | 40,872             | -              | -                  | -              | -              |
| Pinot Noir .....                   | -                          | 60,368         | 28,119           | -                  | 15,697         | -                  | -              | 48,922         |
| Sangiovese .....                   | -                          | -              | 22,518           | -                  | -              | -                  | -              | -              |
| Syrah .....                        | -                          | 13,984         | 735,137          | 744,217            | 38,236         | -                  | 4,915          | -              |
| Tempranillo .....                  | -                          | -              | 4,538            | -                  | -              | -                  | -              | -              |
| Zinfandel .....                    | -                          | -              | 2,193            | -                  | -              | -                  | -              | -              |
| Other red .....                    | -                          | 14,302         | 65,084           | 44,089             | -              | -                  | -              | 2,832          |
| <b>Total red varieties .....</b>   | <b>-</b>                   | <b>376,747</b> | <b>6,489,056</b> | <b>9,054,803</b>   | <b>174,679</b> | <b>-</b>           | <b>27,225</b>  | <b>97,189</b>  |
| <b>All varieties .....</b>         | <b>-</b>                   | <b>492,623</b> | <b>7,741,260</b> | <b>13,432,594</b>  | <b>245,764</b> | <b>-</b>           | <b>53,987</b>  | <b>150,838</b> |

See footnote(s) at end of table.

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**Wine Grapes: Vines by Variety and American Viticultural Area, Washington,  
January 1, 2017 (continued)**

| Variety                           | American Viticultural Area |                  |                 |                  |                    |                   |                   |
|-----------------------------------|----------------------------|------------------|-----------------|------------------|--------------------|-------------------|-------------------|
|                                   | Rattlesnake Hills          | Red Mountain     | Snipes Mountain | Wahluke Slope    | Walla Walla Valley | Yakima Valley     | Washington        |
|                                   | (vines)                    | (vines)          | (vines)         | (vines)          | (vines)            | (vines)           | (vines)           |
| <b>White varieties</b>            |                            |                  |                 |                  |                    |                   |                   |
| Chardonnay.....                   | -                          | -                | 90,466          | 865,089          | -                  | 3,725,657         | 7,085,333         |
| Chenin Blanc.....                 | -                          | -                | -               | -                | -                  | 23,858            | 46,074            |
| Gewurtztraminer.....              | -                          | -                | -               | -                | -                  | 155,862           | 330,458           |
| Muscat Canelli.....               | -                          | -                | -               | -                | -                  | 74,472            | 104,315           |
| Pinot Gris.....                   | -                          | -                | -               | -                | -                  | 1,426,440         | 2,306,469         |
| Rousanne.....                     | -                          | -                | -               | -                | -                  | -                 | 81,872            |
| Sauvignon Blanc.....              | 36,569                     | -                | -               | -                | 5,046              | 280,999           | 1,153,212         |
| Semillon.....                     | 3,150                      | -                | -               | -                | -                  | 61,686            | 174,590           |
| Viognier.....                     | -                          | -                | -               | -                | 15,759             | -                 | 380,576           |
| White Riesling.....               | 335,919                    | -                | 50,235          | 315,405          | -                  | 2,869,242         | 6,251,077         |
| Other white.....                  | 22,261                     | -                | -               | -                | 10,543             | 29,963            | 223,681           |
| <b>Total white varieties.....</b> | <b>683,634</b>             | <b>57,298</b>    | <b>179,901</b>  | <b>1,454,750</b> | <b>67,261</b>      | <b>8,683,441</b>  | <b>18,137,657</b> |
| <b>Red varieties</b>              |                            |                  |                 |                  |                    |                   |                   |
| Barbera.....                      | -                          | -                | -               | -                | -                  | -                 | 36,091            |
| Cabernet Franc.....               | 21,106                     | 61,917           | -               | 98,102           | 62,408             | 158,185           | 663,973           |
| Cabernet Sauvignon.....           | 270,423                    | 1,281,380        | 130,993         | 3,215,414        | 838,614            | 1,944,998         | 17,823,938        |
| Grenache.....                     | -                          | 23,432           | -               | 34,948           | -                  | 24,481            | 202,617           |
| Lemberger.....                    | -                          | -                | -               | -                | -                  | -                 | 41,086            |
| Malbec.....                       | 52,924                     | 35,271           | -               | 51,692           | 57,057             | 8,949             | 557,711           |
| Merlot.....                       | 487,977                    | 274,043          | 138,728         | 2,288,318        | 256,604            | 2,446,401         | 9,109,143         |
| Mouvedre.....                     | -                          | 9,616            | -               | 49,086           | -                  | -                 | 122,170           |
| Petit Verdot.....                 | 22,428                     | 17,567           | -               | 69,358           | 19,792             | -                 | 257,053           |
| Pinot Noir.....                   | -                          | -                | -               | -                | -                  | 235,899           | 440,700           |
| Sangiovese.....                   | 3,496                      | 15,904           | -               | -                | 9,682              | 34,883            | 139,335           |
| Syrah.....                        | 185,568                    | 225,315          | 66,468          | 377,907          | 324,965            | 2,143,711         | 4,871,308         |
| Tempranillo.....                  | -                          | -                | -               | -                | 29,796             | -                 | 71,569            |
| Zinfandel.....                    | -                          | -                | -               | -                | -                  | -                 | 57,916            |
| Other red.....                    | 8,088                      | 6,703            | -               | 41,641           | -                  | 50,987            | 884,719           |
| <b>Total red varieties.....</b>   | <b>1,076,596</b>           | <b>1,984,506</b> | <b>407,809</b>  | <b>6,282,962</b> | <b>1,752,045</b>   | <b>7,067,268</b>  | <b>35,279,329</b> |
| <b>All varieties.....</b>         | <b>1,760,230</b>           | <b>2,041,804</b> | <b>587,710</b>  | <b>7,737,712</b> | <b>1,819,306</b>   | <b>15,750,709</b> | <b>53,416,986</b> |

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**Wine Grapes: Vines per Acre by Variety and American Viticultural Area, Washington, January 1, 2017**

| Variety                            | American Viticultural Area |                  |                  |                    |                  |                    |                  |                  |
|------------------------------------|----------------------------|------------------|------------------|--------------------|------------------|--------------------|------------------|------------------|
|                                    | Ancient Lakes              | Columbia Gorge   | Columbia Valley  | Horse Heaven Hills | Lake Chelan      | Lewis-Clark Valley | Naches Heights   | Puget Sound      |
|                                    | (vines per acre)           | (vines per acre) | (vines per acre) | (vines per acre)   | (vines per acre) | (vines per acre)   | (vines per acre) | (vines per acre) |
| <b>White varieties</b>             |                            |                  |                  |                    |                  |                    |                  |                  |
| Chardonnay .....                   | -                          | 875              | 790              | 839                | 1,033            | -                  | -                | 1,374            |
| Chenin Blanc .....                 | -                          | -                | -                | -                  | -                | -                  | -                | -                |
| Gewurtztraminer .....              | -                          | 795              | 845              | -                  | -                | -                  | -                | -                |
| Muscat Canelli .....               | -                          | -                | -                | -                  | -                | -                  | -                | -                |
| Pinot Gris .....                   | -                          | 835              | 957              | 872                | 1,061            | -                  | 1,325            | 901              |
| Rousanne .....                     | -                          | -                | 1,124            | -                  | -                | -                  | -                | -                |
| Sauvignon Blanc .....              | -                          | -                | 685              | 792                | 1,059            | -                  | 898              | 804              |
| Semillon .....                     | -                          | -                | -                | -                  | -                | -                  | -                | -                |
| Vioignier .....                    | -                          | -                | 817              | 821                | -                | -                  | -                | -                |
| White Riesling .....               | -                          | 796              | 941              | 1,108              | -                | -                  | -                | -                |
| Other white .....                  | -                          | 768              | 945              | 883                | 1,539            | -                  | 1,317            | 1,437            |
| <b>Total white varieties .....</b> | <b>-</b>                   | <b>834</b>       | <b>854</b>       | <b>910</b>         | <b>1,092</b>     | <b>-</b>           | <b>1,205</b>     | <b>1,348</b>     |
| <b>Red varieties</b>               |                            |                  |                  |                    |                  |                    |                  |                  |
| Barbera .....                      | -                          | -                | 759              | 892                | -                | -                  | -                | -                |
| Cabernet Franc .....               | -                          | -                | 818              | 1,013              | 972              | -                  | -                | -                |
| Cabernet Sauvignon .....           | -                          | -                | 1,018            | 899                | -                | -                  | -                | -                |
| Grenache .....                     | -                          | -                | 1,079            | 801                | -                | -                  | -                | -                |
| Lemberger .....                    | -                          | -                | -                | -                  | -                | -                  | -                | -                |
| Malbec .....                       | -                          | 1,046            | 930              | 950                | -                | -                  | -                | -                |
| Merlot .....                       | -                          | -                | 959              | 874                | 1,006            | -                  | -                | -                |
| Mouvedre .....                     | -                          | -                | -                | 855                | -                | -                  | -                | -                |
| Petit Verdot .....                 | -                          | -                | 1,017            | 1,059              | -                | -                  | -                | -                |
| Pinot Noir .....                   | -                          | 1,082            | 1,065            | -                  | 1,266            | -                  | -                | 1,073            |
| Sangiovese .....                   | -                          | -                | 804              | -                  | -                | -                  | -                | -                |
| Syrah .....                        | -                          | 992              | 933              | 909                | 980              | -                  | 1,293            | -                |
| Tempranillo .....                  | -                          | -                | 658              | -                  | -                | -                  | -                | -                |
| Zinfandel .....                    | -                          | -                | 953              | -                  | -                | -                  | -                | -                |
| Other red .....                    | -                          | 832              | 1,088            | 920                | -                | -                  | -                | 1,349            |
| <b>Total red varieties .....</b>   | <b>-</b>                   | <b>1,743</b>     | <b>992</b>       | <b>897</b>         | <b>877</b>       | <b>-</b>           | <b>1,199</b>     | <b>1,563</b>     |
| <b>All varieties .....</b>         | <b>-</b>                   | <b>1,387</b>     | <b>966</b>       | <b>901</b>         | <b>930</b>       | <b>-</b>           | <b>1,202</b>     | <b>1,479</b>     |

See footnote(s) at end of table.

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**Wine Grapes: Vines per Acre by Variety and American Viticultural Area, Washington,  
January 1, 2017 (continued)**

| Variety                           | American Viticultural Area |                  |                  |                  |                    |                  |                  |
|-----------------------------------|----------------------------|------------------|------------------|------------------|--------------------|------------------|------------------|
|                                   | Rattlesnake Hills          | Red Mountain     | Snipes Mountain  | Wahluke Slope    | Walla Walla Valley | Yakima Valley    | Washington       |
|                                   | (vines per acre)           | (vines per acre) | (vines per acre) | (vines per acre) | (vines per acre)   | (vines per acre) | (vines per acre) |
| <b>White varieties</b>            |                            |                  |                  |                  |                    |                  |                  |
| Chardonnay.....                   | -                          | -                | 808              | 1,044            | -                  | 930              | 910              |
| Chenin Blanc.....                 | -                          | -                | -                | -                | -                  | 591              | 692              |
| Gewurtztraminer.....              | -                          | -                | -                | -                | -                  | 818              | 817              |
| Muscat Canelli.....               | -                          | -                | -                | -                | -                  | 848              | 783              |
| Pinot Gris.....                   | -                          | -                | -                | -                | -                  | 1,157            | 1,087            |
| Rousanne.....                     | -                          | -                | -                | -                | -                  | -                | 1,158            |
| Sauvignon Blanc.....              | 1,252                      | -                | -                | -                | 1,294              | 774              | 795              |
| Semillon.....                     | 643                        | -                | -                | -                | -                  | 689              | 742              |
| Viognier.....                     | -                          | -                | -                | -                | 1,044              | -                | 948              |
| White Riesling.....               | 954                        | -                | 682              | 919              | -                  | 858              | 934              |
| Other white.....                  | 916                        | -                | -                | -                | 1,034              | 727              | 975              |
| <b>Total white varieties.....</b> | <b>981</b>                 | <b>766</b>       | <b>757</b>       | <b>1,042</b>     | <b>1,038</b>       | <b>920</b>       | <b>926</b>       |
| <b>Red varieties</b>              |                            |                  |                  |                  |                    |                  |                  |
| Barbera.....                      | -                          | -                | -                | -                | -                  | -                | 909              |
| Cabernet Franc.....               | 1,123                      | 1,102            | -                | 986              | 1,118              | 915              | 969              |
| Cabernet Sauvignon.....           | 874                        | 1,138            | 705              | 872              | 1,022              | 1,036            | 958              |
| Grenache.....                     | -                          | 1,339            | -                | 908              | -                  | 856              | 956              |
| Lemberger.....                    | -                          | -                | -                | -                | -                  | -                | 765              |
| Malbec.....                       | 1,065                      | 1,176            | -                | 905              | 1,194              | 765              | 963              |
| Merlot.....                       | 1,033                      | 980              | 837              | 1,071            | 1,086              | 1,072            | 1,004            |
| Mouvedre.....                     | -                          | 1,265            | -                | 923              | -                  | -                | 970              |
| Petit Verdot.....                 | 1,089                      | 1,065            | -                | 930              | 1,076              | -                | 1,014            |
| Pinot Noir.....                   | -                          | -                | -                | -                | -                  | 759              | 871              |
| Sangiovese.....                   | 777                        | 1,283            | -                | -                | 978                | 1,080            | 1,037            |
| Syrah.....                        | 933                        | 1,041            | 868              | 950              | 1,081              | 1,253            | 1,066            |
| Tempranillo.....                  | -                          | -                | -                | -                | 1,150              | -                | 975              |
| Zinfandel.....                    | -                          | -                | -                | -                | -                  | -                | 894              |
| Other red.....                    | 952                        | 1,031            | -                | 929              | -                  | 653              | 1,013            |
| <b>Total red varieties.....</b>   | <b>970</b>                 | <b>1,096</b>     | <b>798</b>       | <b>945</b>       | <b>1,108</b>       | <b>1,082</b>     | <b>984</b>       |
| <b>All varieties.....</b>         | <b>974</b>                 | <b>1,083</b>     | <b>785</b>       | <b>962</b>       | <b>1,106</b>       | <b>987</b>       | <b>963</b>       |

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## Wine Grapes: Acres by Age and Variety, Washington, January 1, 2017

| Variety                            | Year planted  |               |              |               |              |              |              | Total         |
|------------------------------------|---------------|---------------|--------------|---------------|--------------|--------------|--------------|---------------|
|                                    | Prior to 1996 | 1996-2000     | 2001-2005    | 2006-2011     | 2012-2013    | 2014-2015    | 2016         |               |
|                                    | (acres)       | (acres)       | (acres)      | (acres)       | (acres)      | (acres)      | (acres)      | (acres)       |
| <b>White varieties</b>             |               |               |              |               |              |              |              |               |
| Chardonnay .....                   | 3,120         | 2,709         | 306          | 801           | 702          | -            | -            | 7,782         |
| Chenin Blanc .....                 | 30            | -             | 4            | 25            | -            | -            | -            | 67            |
| Gewurtztraminer .....              | 190           | 84            | 97           | 31            | -            | -            | -            | 405           |
| Muscat Canelli .....               | -             | -             | 63           | -             | -            | -            | -            | 133           |
| Pinot Gris .....                   | 78            | 93            | 360          | 740           | 635          | -            | -            | 2,123         |
| Rousanne .....                     | -             | 7             | 21           | 25            | -            | -            | -            | 71            |
| Sauvignon Blanc .....              | 683           | 99            | 224          | 27            | 35           | 162          | 222          | 1,451         |
| Semillon .....                     | 185           | 13            | -            | 18            | -            | -            | -            | 235           |
| Viognier .....                     | -             | 61            | 291          | 43            | -            | 3            | -            | 402           |
| White Riesling .....               | 1,504         | 483           | 2,183        | 2,420         | -            | -            | -            | 6,695         |
| Other white .....                  | 21            | 71            | 55           | 65            | 3            | 3            | 12           | 230           |
| <b>Total white varieties .....</b> | <b>5,872</b>  | <b>3,646</b>  | <b>3,614</b> | <b>4,194</b>  | <b>1,482</b> | <b>330</b>   | <b>455</b>   | <b>19,593</b> |
| <b>Red varieties</b>               |               |               |              |               |              |              |              |               |
| Barbera .....                      | -             | 8             | 21           | 5             | -            | -            | -            | 40            |
| Cabernet Franc .....               | 117           | 341           | 120          | 72            | 19           | -            | -            | 685           |
| Cabernet Sauvignon .....           | -             | 4,357         | 2,729        | 3,943         | -            | 1,425        | 1,004        | 18,608        |
| Grenache .....                     | -             | 25            | 50           | 76            | 4            | 7            | -            | 212           |
| Lemberger .....                    | 47            | -             | -            | -             | -            | -            | -            | 54            |
| Malbec .....                       | -             | 36            | 241          | 174           | 42           | 28           | -            | 579           |
| Merlot .....                       | 3,275         | 2,312         | 824          | 1,830         | -            | 145          | -            | 9,071         |
| Mouvedre .....                     | -             | -             | 54           | 61            | -            | -            | -            | 126           |
| Petit Verdot .....                 | -             | 5             | 117          | 77            | 8            | 16           | -            | 254           |
| Pinot Noir .....                   | 139           | 39            | 43           | 251           | 11           | -            | -            | 506           |
| Sangiovese .....                   | 16            | 49            | 21           | 44            | -            | -            | -            | 134           |
| Syrah .....                        | 113           | 1,242         | 1,182        | 385           | 759          | 838          | 54           | 4,572         |
| Tempranillo .....                  | -             | -             | -            | 27            | -            | -            | -            | 73            |
| Zinfandel .....                    | -             | -             | 43           | -             | -            | -            | -            | 65            |
| Other red .....                    | 50            | 119           | 107          | 117           | 367          | -            | -            | 874           |
| <b>Total red varieties .....</b>   | <b>8,513</b>  | <b>8,551</b>  | <b>5,585</b> | <b>7,069</b>  | <b>2,367</b> | <b>2,490</b> | <b>1,277</b> | <b>35,852</b> |
| <b>All varieties .....</b>         | <b>14,385</b> | <b>12,196</b> | <b>9,199</b> | <b>11,263</b> | <b>3,849</b> | <b>2,820</b> | <b>1,732</b> | <b>55,445</b> |

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## Wine Grapes: Vines by Age and Variety, Washington, January 1, 2017

| Variety                           | Year planted      |                   |                  |                   |                  |                  |                  | Total             |
|-----------------------------------|-------------------|-------------------|------------------|-------------------|------------------|------------------|------------------|-------------------|
|                                   | Prior to 1996     | 1996-2000         | 2001-2005        | 2006-2011         | 2012-2013        | 2014-2015        | 2016             |                   |
|                                   | (vines)           | (vines)           | (vines)          | (vines)           | (vines)          | (vines)          | (vines)          | (vines)           |
| <b>White varieties</b>            |                   |                   |                  |                   |                  |                  |                  |                   |
| Chardonnay.....                   | 2,444,517         | 2,482,225         | 220,867          | 887,783           | 922,301          | -                | -                | 7,085,333         |
| Chenin Blanc.....                 | 18,804            | -                 | -                | -                 | -                | -                | -                | 46,074            |
| Gewurtztraminer.....              | 137,017           | 79,149            | 87,692           | 24,920            | -                | -                | -                | 330,458           |
| Muscat Canelli.....               | -                 | -                 | 56,452           | -                 | -                | -                | -                | 104,315           |
| Pinot Gris.....                   | 79,344            | 89,301            | 352,630          | 764,573           | 861,855          | -                | -                | 2,306,469         |
| Roussanne.....                    | -                 | 6,148             | 15,598           | 23,231            | -                | -                | -                | 81,872            |
| Sauvignon Blanc.....              | 499,980           | 83,651            | 188,140          | 22,206            | 44,773           | 145,635          | 168,827          | 1,153,212         |
| Semillon.....                     | 132,144           | 10,062            | -                | 13,937            | -                | -                | -                | 174,590           |
| Viognier.....                     | -                 | 66,173            | 264,066          | 43,275            | -                | 2,875            | -                | 380,576           |
| White Riesling.....               | 1,111,941         | 438,312           | 1,965,078        | 2,620,917         | -                | -                | -                | 6,251,077         |
| Other white.....                  | 20,457            | 73,351            | 49,689           | 64,504            | 2,972            | 2,313            | 10,395           | 223,681           |
| <b>Total white varieties.....</b> | <b>4,507,481</b>  | <b>3,350,036</b>  | <b>3,215,707</b> | <b>4,481,429</b>  | <b>1,948,196</b> | <b>290,649</b>   | <b>344,159</b>   | <b>18,137,657</b> |
| <b>Red varieties</b>              |                   |                   |                  |                   |                  |                  |                  |                   |
| Barbera.....                      | -                 | 8,159             | 18,587           | 4,425             | -                | -                | -                | 36,091            |
| Cabernet Franc.....               | 95,329            | 337,173           | 106,231          | 82,878            | 22,780           | -                | -                | 663,973           |
| Cabernet Sauvignon.....           | -                 | 3,801,804         | 2,905,208        | 4,220,405         | -                | 1,828,496        | 988,920          | 17,823,938        |
| Grenache.....                     | -                 | 15,393            | 47,533           | 84,452            | 5,082            | 9,429            | -                | 202,617           |
| Lemberger.....                    | 36,249            | -                 | -                | -                 | -                | -                | -                | 41,086            |
| Malbec.....                       | -                 | 34,650            | 230,248          | 165,779           | 48,648           | 27,829           | -                | 557,711           |
| Merlot.....                       | 3,007,158         | 2,244,656         | 824,231          | 1,930,605         | -                | 176,038          | -                | 9,109,143         |
| Mouvedre.....                     | -                 | -                 | 49,025           | 61,381            | -                | -                | -                | 122,170           |
| Petit Verdot.....                 | -                 | 3,654             | 115,174          | 84,165            | 7,068            | 14,730           | -                | 257,053           |
| Pinot Noir.....                   | 105,763           | 41,876            | 50,977           | 201,976           | 12,558           | -                | -                | 440,700           |
| Sangiovese.....                   | 14,214            | 42,717            | 23,433           | 55,377            | -                | -                | -                | 139,335           |
| Syrah.....                        | 89,949            | 1,080,560         | 1,116,828        | 410,831           | 1,003,515        | 1,106,492        | 63,133           | 4,871,308         |
| Tempranillo.....                  | -                 | -                 | -                | 24,594            | -                | -                | -                | 71,569            |
| Zinfandel.....                    | -                 | -                 | 42,569           | -                 | -                | -                | -                | 57,916            |
| Other red.....                    | 54,694            | 94,796            | 86,211           | 186,644           | 350,483          | -                | -                | 884,719           |
| <b>Total red varieties.....</b>   | <b>6,993,250</b>  | <b>7,722,661</b>  | <b>5,651,153</b> | <b>7,521,292</b>  | <b>2,917,328</b> | <b>3,197,654</b> | <b>1,275,991</b> | <b>35,279,329</b> |
| <b>All varieties.....</b>         | <b>11,500,731</b> | <b>11,072,697</b> | <b>8,866,860</b> | <b>12,002,721</b> | <b>4,865,524</b> | <b>3,488,303</b> | <b>1,620,150</b> | <b>53,416,986</b> |

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### Wine Grapes: Vines per Acre by Age, by Variety, Washington, January 1, 2017

| Variety                            | Year planted     |                  |                  |                  |                  |                  |                  | Total            |
|------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                                    | Prior to 1996    | 1996-2000        | 2001-2005        | 2006-2011        | 2012-2013        | 2014-2015        | 2016             |                  |
|                                    | (vines per acre) | (vines per acre) | (vines per acre) | (vines per acre) | (vines per acre) | (vines per acre) | (vines per acre) | (vines per acre) |
| <b>White varieties</b>             |                  |                  |                  |                  |                  |                  |                  |                  |
| Chardonnay .....                   | 784              | 916              | 721              | 1,108            | 1,315            | -                | -                | 910              |
| Chenin Blanc .....                 | 629              | -                | -                | -                | -                | -                | -                | 692              |
| Gewurtztraminer .....              | 720              | 939              | 905              | 814              | -                | -                | -                | 817              |
| Muscat Canelli .....               | -                | -                | 897              | -                | -                | -                | -                | 783              |
| Pinot Gris .....                   | 1,022            | 963              | 979              | 1,033            | 1,356            | -                | -                | 1,087            |
| Rousanne .....                     | -                | 918              | 736              | 944              | -                | -                | -                | 1,158            |
| Sauvignon Blanc .....              | 732              | 844              | 840              | 829              | 1,294            | 901              | 759              | 795              |
| Semillon .....                     | 714              | 780              | -                | 787              | -                | -                | -                | 742              |
| Viognier .....                     | -                | 1,078            | 907              | 1,016            | -                | 991              | -                | 948              |
| White Riesling .....               | 739              | 907              | 900              | 1,083            | -                | -                | -                | 934              |
| Other white .....                  | 993              | 1,035            | 912              | 986              | 959              | 826              | 852              | 975              |
| <b>Total white varieties</b> ..... | <b>768</b>       | <b>919</b>       | <b>890</b>       | <b>1,068</b>     | <b>1,314</b>     | <b>880</b>       | <b>757</b>       | <b>926</b>       |
| <b>Red varieties</b>               |                  |                  |                  |                  |                  |                  |                  |                  |
| Barbera .....                      | -                | 1,088            | 889              | 962              | -                | -                | -                | 909              |
| Cabernet Franc .....               | 815              | 989              | 889              | 1,145            | 1,212            | -                | -                | 969              |
| Cabernet Sauvignon .....           | -                | 873              | 1,065            | 1,070            | -                | 1,283            | 985              | 958              |
| Grenache .....                     | -                | 611              | 953              | 1,107            | 1,155            | 1,328            | -                | 956              |
| Lemberger .....                    | 771              | -                | -                | -                | -                | -                | -                | 765              |
| Malbec .....                       | -                | 971              | 954              | 953              | 1,167            | 987              | -                | 963              |
| Merlot .....                       | 918              | 971              | 1,000            | 1,055            | -                | 1,212            | -                | 1,004            |
| Mouvedre .....                     | -                | -                | 901              | 1,001            | -                | -                | -                | 970              |
| Petit Verdot .....                 | -                | 746              | 984              | 1,089            | 862              | 926              | -                | 1,014            |
| Pinot Noir .....                   | 760              | 1,082            | 1,199            | 804              | 1,142            | -                | -                | 871              |
| Sangiovese .....                   | 877              | 881              | 1,111            | 1,267            | -                | -                | -                | 1,037            |
| Syrah .....                        | 800              | 870              | 945              | 1,068            | 1,322            | 1,321            | 1,163            | 1,066            |
| Tempranillo .....                  | -                | -                | -                | 908              | -                | -                | -                | 975              |
| Zinfandel .....                    | -                | -                | 988              | -                | -                | -                | -                | 894              |
| Other red .....                    | 1,103            | 798              | 809              | 1,602            | 956              | -                | -                | 1,013            |
| <b>Total red varieties</b> .....   | <b>821</b>       | <b>903</b>       | <b>1,012</b>     | <b>1,064</b>     | <b>1,233</b>     | <b>1,284</b>     | <b>999</b>       | <b>984</b>       |
| <b>All varieties</b> .....         | <b>799</b>       | <b>908</b>       | <b>964</b>       | <b>1,066</b>     | <b>1,264</b>     | <b>1,237</b>     | <b>935</b>       | <b>963</b>       |

- Represents zero or data not published to avoid disclosure of individual operations.

### Wine Grapes: Acres by Age and American Viticultural Area, Washington, January 1, 2017

| American Viticultural Area (AVA) | Year planted  |               |              |               |              |              |              | Total         |
|----------------------------------|---------------|---------------|--------------|---------------|--------------|--------------|--------------|---------------|
|                                  | Prior to 1996 | 1996-2000     | 2001-2005    | 2006-2011     | 2012-2013    | 2014-2015    | 2016         |               |
|                                  | (acres)       | (acres)       | (acres)      | (acres)       | (acres)      | (acres)      | (acres)      | (acres)       |
| Ancient Lakes .....              | -             | -             | -            | -             | -            | -            | -            | -             |
| Columbia Gorge .....             | 96            | -             | 60           | 153           | 22           | 7            | -            | 355           |
| Columbia Valley .....            | 1,495         | 1,481         | 2,976        | 973           | 327          | 438          | 322          | 8,010         |
| Horse Heaven Hills .....         | 3,335         | -             | 513          | 4,052         | -            | 565          | 1,167        | 14,909        |
| Lake Chelan .....                | -             | 102           | 68           | 59            | -            | -            | -            | 264           |
| Lewis-Clark Valley .....         | -             | -             | -            | -             | -            | -            | -            | -             |
| Naches Heights .....             | -             | -             | -            | 30            | 5            | -            | -            | 45            |
| Puget Sound .....                | 15            | -             | 7            | 37            | 10           | -            | -            | 102           |
| Rattlesnake Hills .....          | 606           | 174           | 699          | 270           | -            | 10           | -            | 1,807         |
| Red Mountain .....               | 540           | 250           | 105          | 444           | 224          | 303          | 19           | 1,885         |
| Snipes Mountain .....            | 465           | -             | 143          | -             | -            | -            | -            | 749           |
| Wahluke Slope .....              | 3,231         | 1,426         | 869          | 2,426         | -            | -            | -            | 8,045         |
| Walla Walla Valley .....         | 76            | 631           | 737          | 189           | 11           | -            | -            | 1,645         |
| Yakima Valley .....              | 4,459         | 2,151         | 3,002        | 2,161         | 2,735        | 1,446        | 10           | 15,963        |
| <b>Washington</b> .....          | <b>14,385</b> | <b>12,196</b> | <b>9,199</b> | <b>11,263</b> | <b>3,849</b> | <b>2,820</b> | <b>1,732</b> | <b>55,445</b> |

- Represents zero or data not published to avoid disclosure of individual operations.



### Wine Grapes: Vines by Age and American Viticultural Area, Washington, January 1, 2017

| American Viticultural Area (AVA) | Year planted  |            |           |            |           |           |           | Total      |
|----------------------------------|---------------|------------|-----------|------------|-----------|-----------|-----------|------------|
|                                  | Prior to 1996 | 1996-2000  | 2001-2005 | 2006-2011  | 2012-2013 | 2014-2015 | 2016      |            |
|                                  | (vines)       | (vines)    | (vines)   | (vines)    | (vines)   | (vines)   | (vines)   | (vines)    |
| Ancient Lakes .....              | -             | -          | -         | -          | -         | -         | -         | -          |
| Columbia Gorge .....             | 68,441        | -          | 71,410    | 309,021    | 20,509    | 7,103     | -         | 492,623    |
| Columbia Valley .....            | 1,001,168     | 1,400,746  | 3,011,604 | 1,081,374  | 348,488   | 521,164   | 376,716   | 7,741,260  |
| Horse Heaven Hills .....         | 2,454,636     | -          | 487,086   | 4,298,178  | -         | 577,550   | 984,388   | 13,432,594 |
| Lake Chelan .....                | -             | 91,327     | 62,278    | 50,147     | -         | -         | -         | 245,764    |
| Lewis-Clark Valley .....         | -             | -          | -         | -          | -         | -         | -         | -          |
| Naches Heights .....             | -             | -          | -         | 35,020     | 4,858     | -         | -         | 53,987     |
| Puget Sound .....                | 19,221        | -          | 8,632     | 69,286     | 11,513    | -         | -         | 150,838    |
| Rattlesnake Hills .....          | 564,231       | 202,277    | 666,329   | 255,824    | -         | 5,821     | -         | 1,760,230  |
| Red Mountain .....               | 411,092       | 212,911    | 117,392   | 601,050    | 272,443   | 409,140   | 17,776    | 2,041,804  |
| Snipes Mountain .....            | 350,979       | -          | 115,535   | -          | -         | -         | -         | 587,710    |
| Wahluke Slope .....              | 2,757,252     | 1,375,945  | 804,644   | 2,696,790  | -         | -         | -         | 7,737,712  |
| Walla Walla Valley .....         | 78,127        | 557,356    | 882,719   | 283,203    | 14,680    | -         | -         | 1,819,306  |
| Yakima Valley .....              | 3,724,583     | 1,935,457  | 2,617,751 | 1,876,820  | 3,670,359 | 1,914,154 | 11,585    | 15,750,709 |
| Washington .....                 | 11,500,731    | 11,072,697 | 8,866,860 | 12,002,721 | 4,865,524 | 3,488,303 | 1,620,150 | 53,416,986 |

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### Wine Grapes: Vines per Acre by Age and American Viticultural Area, Washington, January 1, 2017

| American Viticultural Area (AVA) | Year planted     |                  |                  |                  |                  |                  |                  | Total            |
|----------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                                  | Prior to 1996    | 1996-2000        | 2001-2005        | 2006-2011        | 2012-2013        | 2014-2015        | 2016             |                  |
|                                  | (vines per acre) | (vines per acre) | (vines per acre) | (vines per acre) | (vines per acre) | (vines per acre) | (vines per acre) | (vines per acre) |
| Ancient Lakes .....              | -                | -                | -                | -                | -                | -                | -                | -                |
| Columbia Gorge .....             | 710              | -                | 1,184            | 2,014            | 932              | 1,093            | -                | 1,387            |
| Columbia Valley .....            | 670              | 946              | 1,012            | 1,112            | 1,066            | 1,191            | 1,169            | 966              |
| Horse Heaven Hills .....         | 736              | -                | 949              | 1,061            | -                | 1,022            | 844              | 901              |
| Lake Chelan .....                | -                | 894              | 910              | 856              | -                | -                | -                | 930              |
| Lewis-Clark Valley .....         | -                | -                | -                | -                | -                | -                | -                | -                |
| Naches Heights .....             | -                | -                | -                | 1,187            | 1,034            | -                | -                | 1,202            |
| Puget Sound .....                | 1,281            | -                | 1,308            | 1,868            | 1,129            | -                | -                | 1,479            |
| Rattlesnake Hills .....          | 932              | 1,164            | 953              | 949              | -                | 571              | -                | 974              |
| Red Mountain .....               | 761              | 853              | 1,115            | 1,352            | 1,215            | 1,353            | 956              | 1,083            |
| Snipes Mountain .....            | 754              | -                | 810              | -                | -                | -                | -                | 785              |
| Wahluke Slope .....              | 853              | 965              | 926              | 1,112            | -                | -                | -                | 962              |
| Walla Walla Valley .....         | 1,031            | 884              | 1,198            | 1,495            | 1,372            | -                | -                | 1,106            |
| Yakima Valley .....              | 835              | 900              | 872              | 869              | 1,342            | 1,324            | 1,207            | 987              |
| Washington .....                 | 799              | 908              | 964              | 1,066            | 1,264            | 1,237            | 935              | 963              |

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**Wine Grapes: Acres by Variety and Select Counties, Washington, January 1, 2017**

| Variety                            | Benton<br>(acres) | Chelan<br>(acres) | Clark<br>(acres) | Franklin<br>(acres) | Grant<br>(acres) | King<br>(acres) | Kittitas<br>(acres) |
|------------------------------------|-------------------|-------------------|------------------|---------------------|------------------|-----------------|---------------------|
| <b>White varieties</b>             |                   |                   |                  |                     |                  |                 |                     |
| Chardonnay .....                   | 4,526             | 23                | -                | 353                 | 1,182            | 3               | -                   |
| Chenin Blanc .....                 | 39                | -                 | -                | -                   | -                | -               | -                   |
| Gewurtztraminer .....              | 168               | 2                 | 3                | -                   | -                | -               | -                   |
| Muscat Canelli .....               | -                 | -                 | -                | -                   | -                | -               | -                   |
| Pinot Gris .....                   | 974               | 20                | -                | -                   | -                | -               | -                   |
| Rousanne .....                     | -                 | -                 | -                | -                   | -                | -               | -                   |
| Sauvignon Blanc .....              | 1,090             | 8                 | -                | 76                  | -                | -               | -                   |
| Semillon .....                     | 189               | -                 | -                | -                   | -                | -               | -                   |
| Viognier .....                     | 44                | 12                | -                | 15                  | 25               | -               | -                   |
| White Riesling .....               | 4,535             | 9                 | 4                | 111                 | 1,026            | -               | -                   |
| Other white .....                  | 95                | -                 | -                | -                   | 11               | -               | -                   |
| <b>Total white varieties .....</b> | <b>11,709</b>     | <b>78</b>         | <b>23</b>        | <b>580</b>          | <b>2,716</b>     | <b>7</b>        | <b>-</b>            |
| <b>Red varieties</b>               |                   |                   |                  |                     |                  |                 |                     |
| Barbera .....                      | 3                 | -                 | -                | -                   | 10               | -               | -                   |
| Cabernet Franc .....               | 208               | 11                | -                | 38                  | 102              | -               | -                   |
| Cabernet Sauvignon .....           | 5,687             | 7                 | -                | 586                 | 3,707            | -               | -                   |
| Grenache .....                     | 76                | -                 | -                | -                   | 53               | -               | -                   |
| Lemberger .....                    | 47                | -                 | -                | -                   | -                | -               | -                   |
| Malbec .....                       | 95                | 16                | -                | 23                  | 76               | -               | -                   |
| Merlot .....                       | 3,211             | 17                | -                | 236                 | 2,208            | -               | -                   |
| Mouvedre .....                     | 34                | -                 | -                | -                   | 58               | -               | -                   |
| Petit Verdot .....                 | 44                | -                 | -                | -                   | 93               | -               | -                   |
| Pinot Noir .....                   | 271               | 14                | 37               | -                   | -                | 9               | -                   |
| Sangiovese .....                   | 73                | -                 | -                | -                   | 9                | -               | -                   |
| Syrah .....                        | 1,215             | 29                | -                | 121                 | 515              | -               | -                   |
| Tempranillo .....                  | -                 | 3                 | -                | -                   | 19               | -               | -                   |
| Zinfandel .....                    | -                 | -                 | -                | -                   | -                | -               | -                   |
| Other red .....                    | 97                | 89                | 5                | -                   | 511              | -               | -                   |
| <b>Total red varieties .....</b>   | <b>11,064</b>     | <b>192</b>        | <b>44</b>        | <b>1,056</b>        | <b>7,398</b>     | <b>21</b>       | <b>-</b>            |
| <b>All varieties .....</b>         | <b>22,773</b>     | <b>270</b>        | <b>66</b>        | <b>1,636</b>        | <b>10,114</b>    | <b>27</b>       | <b>15</b>           |

See footnote(s) at end of table.

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**Wine Grapes: Acres by Variety and Select Counties, Washington, January 1, 2017 (continued)**

| Variety                            | Klickitat<br>(acres) | Okanogan<br>(acres) | Pierce<br>(acres) | Skamania<br>(acres) | Walla Walla<br>(acres) | Yakima<br>(acres) | Washington<br>(acres) |
|------------------------------------|----------------------|---------------------|-------------------|---------------------|------------------------|-------------------|-----------------------|
| <b>White varieties</b>             |                      |                     |                   |                     |                        |                   |                       |
| Chardonnay .....                   | 542                  | -                   | -                 | 33                  | -                      | 1,080             | 7,782                 |
| Chenin Blanc .....                 | -                    | -                   | -                 | -                   | -                      | 18                | 67                    |
| Gewurtztraminer .....              | 11                   | -                   | -                 | -                   | -                      | 145               | 405                   |
| Muscat Canelli .....               | -                    | -                   | -                 | -                   | -                      | 90                | 133                   |
| Pinot Gris .....                   | -                    | -                   | -                 | 25                  | -                      | 718               | 2,123                 |
| Rousanne .....                     | -                    | -                   | -                 | -                   | -                      | 21                | 71                    |
| Sauvignon Blanc .....              | 137                  | -                   | -                 | -                   | 4                      | 100               | 1,451                 |
| Semillon .....                     | -                    | -                   | -                 | -                   | -                      | 27                | 235                   |
| Vignier .....                      | 62                   | -                   | -                 | -                   | 15                     | 228               | 402                   |
| White Riesling .....               | -                    | -                   | -                 | 16                  | -                      | 734               | 6,695                 |
| Other white .....                  | 21                   | -                   | -                 | -                   | 10                     | 28                | 230                   |
| <b>Total white varieties .....</b> | <b>1,024</b>         | <b>-</b>            | <b>9</b>          | <b>101</b>          | <b>65</b>              | <b>3,189</b>      | <b>19,593</b>         |
| <b>Red varieties</b>               |                      |                     |                   |                     |                        |                   |                       |
| Barbera .....                      | 16                   | -                   | -                 | -                   | -                      | -                 | 40                    |
| Cabernet Franc .....               | 132                  | -                   | -                 | -                   | 52                     | 134               | 685                   |
| Cabernet Sauvignon .....           | 6,304                | -                   | -                 | -                   | 850                    | 1,442             | 18,608                |
| Grenache .....                     | 33                   | -                   | -                 | -                   | -                      | 29                | 212                   |
| Lemberger .....                    | -                    | -                   | -                 | -                   | -                      | -                 | 54                    |
| Malbec .....                       | 204                  | -                   | -                 | -                   | 48                     | 105               | 579                   |
| Merlot .....                       | 1,819                | -                   | -                 | -                   | 235                    | 1,327             | 9,071                 |
| Mouvedre .....                     | -                    | -                   | -                 | -                   | -                      | 7                 | 126                   |
| Petit Verdot .....                 | 27                   | -                   | -                 | -                   | 18                     | 27                | 254                   |
| Pinot Noir .....                   | 12                   | -                   | -                 | 22                  | -                      | 86                | 506                   |
| Sangiovese .....                   | -                    | -                   | -                 | -                   | 10                     | 16                | 134                   |
| Syrah .....                        | 671                  | -                   | -                 | -                   | 329                    | 1,666             | 4,572                 |
| Tempranillo .....                  | -                    | -                   | -                 | -                   | 26                     | 8                 | 73                    |
| Zinfandel .....                    | 10                   | -                   | -                 | -                   | -                      | 15                | 65                    |
| Other red .....                    | 58                   | -                   | 1                 | -                   | 45                     | 59                | 874                   |
| <b>Total red varieties .....</b>   | <b>9,344</b>         | <b>-</b>            | <b>5</b>          | <b>40</b>           | <b>1,631</b>           | <b>4,928</b>      | <b>35,852</b>         |
| <b>All varieties .....</b>         | <b>10,368</b>        | <b>11</b>           | <b>14</b>         | <b>141</b>          | <b>1,696</b>           | <b>8,117</b>      | <b>55,445</b>         |

- Represents zero or data not published to avoid disclosure of individual operations.

**Wine Grapes: Total Acres by County,  
Washington, January 1, 2017**

| County             | Total Acres<br>(acres) |
|--------------------|------------------------|
| Adams .....        | -                      |
| Asotin .....       | -                      |
| Benton .....       | 22,773                 |
| Chelan .....       | 270                    |
| Clallam .....      | -                      |
| Clark .....        | 66                     |
| Columbia .....     | -                      |
| Cowlitz .....      | -                      |
| Douglas .....      | -                      |
| Ferry .....        | -                      |
| Franklin .....     | 1,636                  |
| Garfield .....     | -                      |
| Grant .....        | 10,114                 |
| Grays Harbor ..... | -                      |
| Island .....       | -                      |
| Jefferson .....    | -                      |
| King .....         | 27                     |
| Kitsap .....       | 10                     |
| Kittitas .....     | 15                     |
| Klickitat .....    | 10,368                 |

See footnote(s) at end of table.

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**Wine Grapes: Total Acres by County,  
Washington, January 1, 2017 (continued)**

| County             | Total Acres<br>(acres) |
|--------------------|------------------------|
| Lewis .....        | -                      |
| Lincoln .....      | -                      |
| Mason .....        | -                      |
| Okanogan .....     | 11                     |
| Pacific .....      | -                      |
| Pend Oreille ..... | -                      |
| Pierce .....       | 14                     |
| San Juan .....     | -                      |
| Skagit .....       | -                      |
| Skamania .....     | 141                    |
| Snohomish .....    | -                      |
| Spokane .....      | 8                      |
| Stevens .....      | 5                      |
| Thurston .....     | -                      |
| Wahkiakum .....    | -                      |
| Walla Walla .....  | 1,696                  |
| Whatcom .....      | -                      |
| Whitman .....      | -                      |
| Yakima .....       | 8,117                  |
| Washington .....   | 55,445                 |

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**Juice Grapes: Acres, Vines, Vines per Acre by Year Planted, Washington, January 1, 2017**

| Variety        | Year Planted     |               |               |               |               |               |      | Total      |
|----------------|------------------|---------------|---------------|---------------|---------------|---------------|------|------------|
|                | Prior to<br>1996 | 1996-<br>2000 | 2001-<br>2005 | 2006-<br>2011 | 2012-<br>2013 | 2014-<br>2015 | 2016 |            |
| Concord .....  | 12,081           | 1,328         | 3,164         | -             | -             | -             | -    | 20,601     |
| vines          | 7,883,031        | 1,160,825     | 2,398,660     | -             | -             | -             | -    | 14,628,295 |
| vines per acre | 652              | 874           | 758           | -             | -             | -             | -    | 710        |
| Niagara .....  | 421              | 272           | 223           | -             | -             | -             | -    | 1,031      |
| vines          | 326,986          | 191,091       | 163,974       | -             | -             | -             | -    | 765,041    |
| vines per acre | 777              | 703           | 736           | -             | -             | -             | -    | 742        |
| Total .....    | 12,502           | 1,600         | 3,387         | 2,450         | 1,554         | -             | -    | 21,632     |
| vines          | 8,210,017        | 1,351,916     | 2,562,634     | 2,072,927     | 1,108,204     | -             | -    | 15,393,336 |
| vines per acre | 657              | 845           | 757           | 846           | 713           | -             | -    | 712        |

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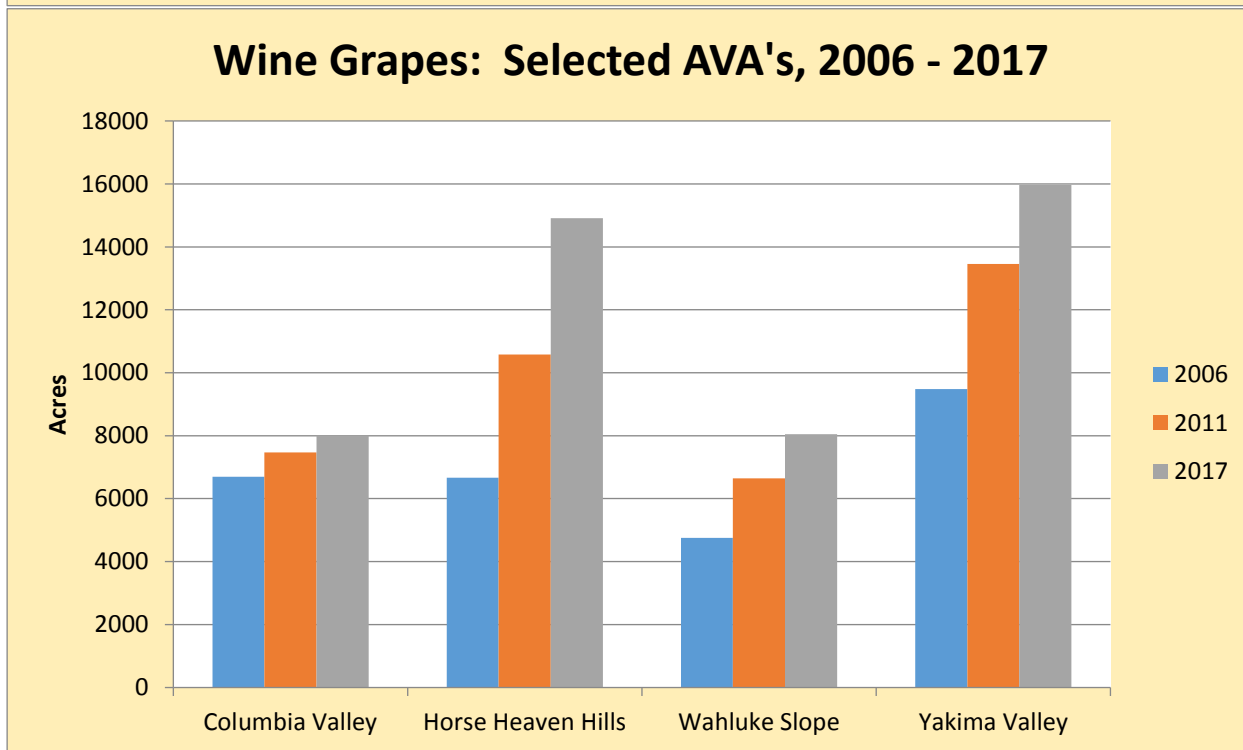
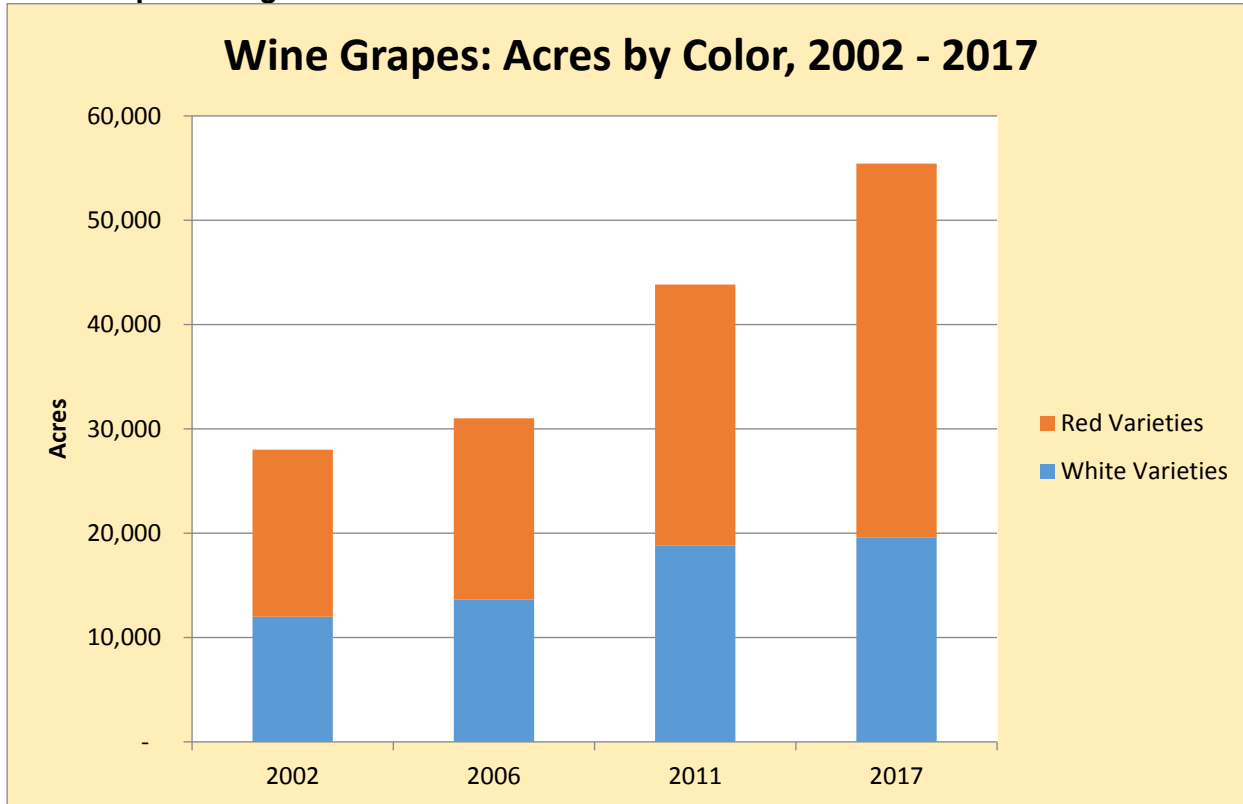
**Grapes: Organic Certified and Organic Transition Acres by Variety, Washington, January 1, 2017**

| Variety                                  | Organic              |                       |
|--|----------------------|-----------------------|
|  | Certified<br>(acres) | Transition<br>(acres) |
| Wine Grapes                              |                      |                       |
| White Varieties                          |                      |                       |
| Chardonnay .....                         | 54                   | -                     |
| Other white varieties <sup>1</sup> ..... | 226                  | -                     |
| Total white varieties .....              | 280                  | 7                     |
| Red Varieties                            |                      |                       |
| Cabernet Franc .....                     | 6                    | -                     |
| Cabernet Sauvignon .....                 | 400                  | 13                    |
| Merlot .....                             | 37                   | -                     |
| Pinot Noir .....                         | 6                    | -                     |
| Syrah .....                              | 117                  | -                     |
| Other red varieties <sup>1</sup> .....   | 22                   | 7                     |
| Total red varieties .....                | 588                  | 36                    |
| All Wine Grapes .....                    | 868                  | 43                    |
| All Juice Grapes .....                   | 1,276                | -                     |

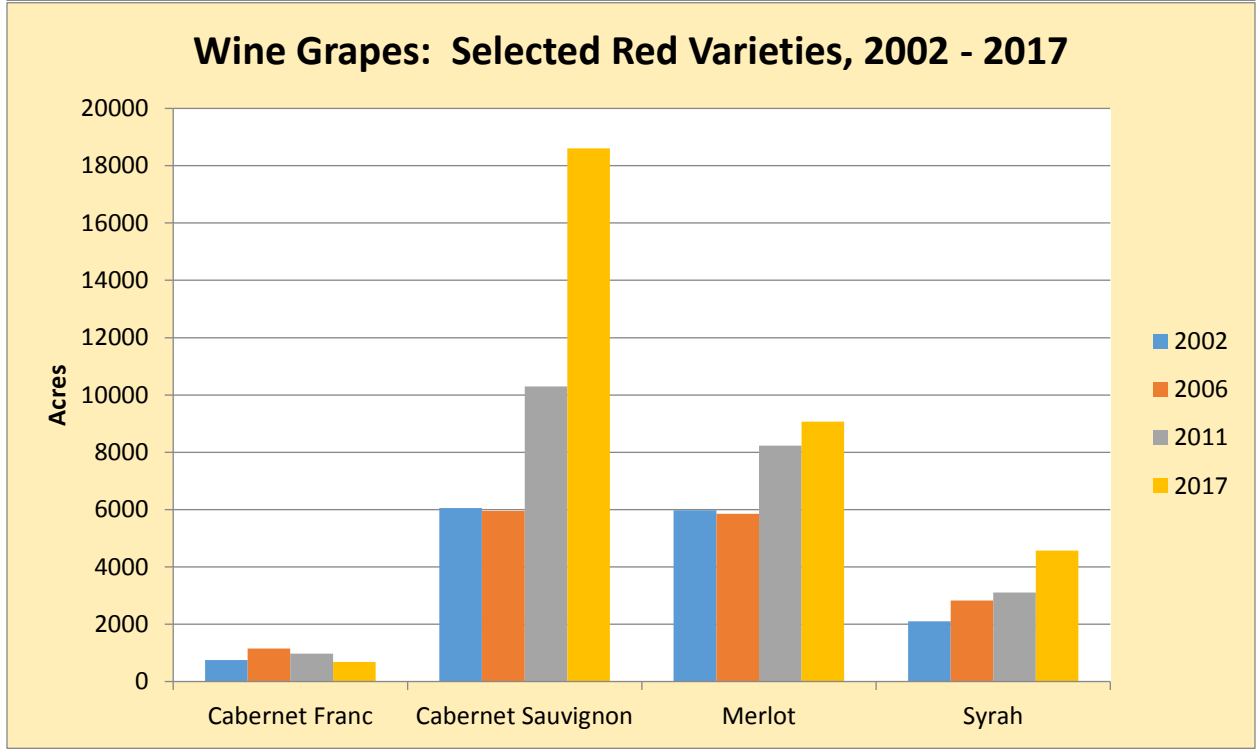
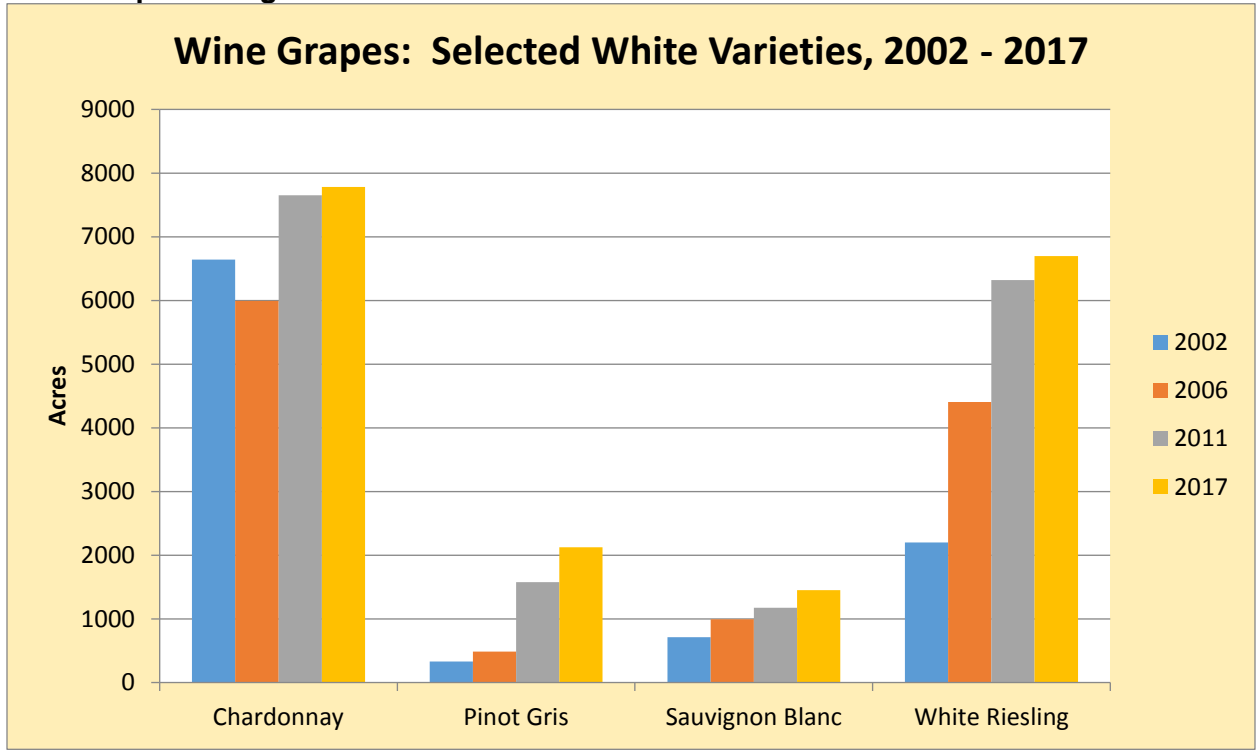
- Represents zero or data not published to avoid disclosure of individual operations.

<sup>1</sup> Other varieties include varieties with minimal acreage and unknown varieties.

**Wine Grape Acreage Charts**



**Wine Grape Acreage Charts**



Dear Washington State Wine Grape Grower,

The Washington State wine industry has grown quickly enough to warrant an inventory by crop, variety, age, and production. Detailed acreage information is critical to both grape and tree fruit growers for decision-making that will maximize production and labor efficiencies. The information is also valuable for agribusiness service-providers including lenders, nurseries, input suppliers, warehouses and processors as well for the management of labor supplies, transportation, etc. Maintaining a regular trend for collection of industry data is necessary for risk management, future planning and determination of economic impact.

On behalf of the Washington State Wine Commission and the Washington Association of Wine Grape Growers (WAWGG), we'd like your support and participation in an acreage survey that will be conducted by the USDA's National Agricultural Statistics Service (USDA NASS).

We are partnering with the Washington Tree Fruit Association to secure funding for this survey through the Specialty Crop Block Grant Program administered by the Washington State Department of Agriculture. Without the support of grants like these, specialty crop industries would not be able to engage in this type of work.

On behalf of our organizations, we fully support this acreage survey and ask for your participation as well.

Thank you for your support.

Sincerely,

Vicky Scharlau, Executive Director, WAWGG



Steve Warner, President, Washington State Wine





**GRAPE & TREE FRUIT ACREAGE INVENTORY BY VARIETY STUDY - January 1, 2017**



**Washington State  
Fruit Commission**



**United States  
Department of  
Agriculture**



**NATIONAL  
AGRICULTURAL  
STATISTICS  
SERVICE**

USDA/NASS - Washington  
Northwest Region  
PO Box 609  
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Please make corrections to name, address, and zip code, if necessary.

*Title 7, U.S. Code, Section 2276 prohibits public disclosure of personal information, including reported data. By law, every employee and agent has taken an oath and is subject to a jail term, a fine, or both if he or she willfully discloses ANY identifiable information about you or your operation. The information you provide will be summarized with other responses. Response is voluntary.*

1. Is the operation listed on the label known by any **OTHER NAME**?  
 NO - Skip to item 2       YES - Secondary Name(s) \_\_\_\_\_
2. Are you involved as **THE OPERATOR** of fruit acreage under another operation name?  
 NO - Skip to item 3       YES - enter information for other orchard(s) you operate below.  
 Operation Name: \_\_\_\_\_  
 County: \_\_\_\_\_      Total Acres of Fruit: \_\_\_\_\_
3. Is there any other operator that could report the same acreage for the operation on the label?  
 NO - Skip to item 4       YES - Who might also report this acreage? \_\_\_\_\_

*Note: Information recorded in this questionnaire should be for the operation as printed or corrected on the label. Information for additional operations listed in item 2 should be reported on separate questionnaires.*

| ACRES OPERATED – JANUARY 1, 2017  |     | Acres (Tenths) |
|---|-----|----------------|
| 4. Total Acres in Operation (include roads, waste areas, other crops, etc.) ..... | 201 | _____          |
| 5. Total Cropland.....  | 202 | _____          |
| 6. Total Fruit Acreage (including grapes) .....                                   | 203 | _____          |

**SUMMARY OF GRAPE & TREE FRUIT ACREAGE – JANUARY 1, 2017**

7. Record the acres of fruit (excluding roads, waste areas, abandoned orchards/vineyards) to the nearest tenth acre.

| TREE FRUIT      | TOTAL ACRES (Tenths) | TREE FRUIT    | TOTAL ACRES (Tenths) |
|-----------------|----------------------|---------------|----------------------|
| Apples          | 204 _____            | Nectarines    | 211 _____            |
| Pears, Bartlett | 205 _____            | Plums/Prunes  | 212 _____            |
| Pears, Winter   | 206 _____            | Pluots        | 216 _____            |
| Cherries, Sweet | 207 _____            | <b>GRAPES</b> |                      |
| Cherries, Tart  | 208 _____            | Grapes, Wine  | 213 _____            |
| Apricots        | 209 _____            | Grapes, Juice | 214 _____            |
| Peaches         | 210 _____            |               |                      |

8. If total tree fruit acreage on this operation is less than 5 acres and total grape acreage is less than 1 acre, skip to **Survey Results** on p. 4, otherwise, continue to page 2.

### INSTRUCTIONS FOR RECORDING DETAILED INFORMATION

Information should be recorded by **BLOCK NAME, COUNTY, FRUIT TYPE, VARIETY, YEAR PLANTED OR TOPWORKED, and AMERICAN VITICULTURAL AREA** (for Wine Grapes). The reference date is January 1, 2017.

(Column 1. Optional) Record block name, for our reference.

(Column 2) The county where the fruit is located should be recorded for each fruit. Use a separate line for each variety and year planted or topworked.

(Columns 4 and 6) Record the type and variety of the fruit.

(Columns 3, 5, 7, 8 and 9) **CODE** Values for these columns can be found in the Respondent Booklet.

(Column 8) For wine grapes only, record the most definitive American Viticultural Area code for each block.

(Column 9) Enter the year code of planting or year topworked for each line.

(Column 10) Record the acres of fruit (excluding roads, waste areas, abandoned orchards/vineyards) to the nearest tenth acre.

(Columns 11-12) Record the number of certified organic acres and transition to organic acres.

(Columns 13-14) Record the number of trees/vines for each line by bearing age and non-bearing age. The operator makes the determination in classifying trees/vines as bearing age. **Exclude non-harvested pollenizers in tree count.**

(Column 15-17) Provide this information only if the number of trees/vines in columns 13 and 14 are not reported. Record the percentage of acreage in the block that is of bearing age, and either the tree/vine density per acre or the block tree/vine spacing.

Include additional or clarifying information for unusual situations (irregular tree spacing patterns or interplant designs, multiple row plantings, etc.) in the comments section or on a separate enclosure.

### Grape and Tree Fruit Acreage for

| L<br>I<br>N<br>E | 1<br>Block<br>Name<br>(Optional) | 2<br>County<br>Name | 3<br>County<br>Code | 4<br>Fruit<br>Type | 5<br>Fruit<br>Code | 6<br>Variety Name | 7<br>Variety<br>Code | 8<br>American<br>Viticultural<br>Area Code<br>[For wine<br>grapes, enter<br>the most<br>definitive code<br>from table<br>above.] | 9<br>Year Planted/<br>Topworked<br>Code<br>[Enter code from<br>table above] |
|------------------|----------------------------------|---------------------|---------------------|--------------------|--------------------|-------------------|----------------------|--|---|
|                  |                                  |                     | CODE                |                    | CODE               |                   | CODE                 | CODE   | CODE  |
| 001              |                                  |                     | 301                 |                    | 302                |                   | 303                  | 309  | 305   |
| 002              |                                  |                     | 301                 |                    | 302                |                   | 303                  | 309  | 305   |
| 003              |                                  |                     | 301                 |                    | 302                |                   | 303                  | 309  | 305   |
| 004              |                                  |                     | 301                 |                    | 302                |                   | 303                  | 309  | 305   |
| 005              |                                  |                     | 301                 |                    | 302                |                   | 303                  | 309  | 305   |
| 006              |                                  |                     | 301                 |                    | 302                |                   | 303                  | 309  | 305   |
| 007              |                                  |                     | 301                 |                    | 302                |                   | 303                  | 309  | 305   |
| 008              |                                  |                     | 301                 |                    | 302                |                   | 303                  | 309  | 305   |
| 009              |                                  |                     | 301                 |                    | 302                |                   | 303                  | 309  | 305   |
| 010              |                                  |                     | 301                 |                    | 302                |                   | 303                  | 309  | 305   |

If more than 10 blocks, continue

| Fruit Type Codes for Column 5 | American Viticultural Area Codes for Column 8 | Year Codes for Column 9 |
|-------------------------------|---|-------------------------|
| 420 Apples                    | 1 Columbia Gorge                              | 1 Prior to 1996         |
| 456 Pears, Bartlett           | 2 Columbia Valley                             | 2 1996-2000             |
| 457 Pear, Winter              | 3 Horse Heaven Hills                          | 3 2001-2005             |
| 430 Cherries, Sweet           | 4 Puget Sound                                 | 4 2006-2011             |
| 432 Cherries, Tart            | 5 Rattlesnake Hills                           | 5 2012                  |
| 421 Apricots                  | 6 Red Mountain                                | 6 2013                  |
| 450 Peaches                   | 7 Wahluke Slope                               | 7 2014                  |
| 439 Nectarines                | 8 Walla Walla Valley                          | 8 2015                  |
| 449 Plums/Prunes              | 9 Yakima Valley                               | 9 2016                  |
| 141 Pluots                    | 10 Snipes Mountain                            |                         |
| 444 Grapes, Juice             | 11 Lake Chelan                                |                         |
| 443 Grapes, Wine              | 12 Ancient Lakes                              |                         |
|                               | 13 Lewis-Clark Valley                         |                         |
|                               | 14 Naches Heights                             |                         |

### Operation on Label - January 1, 2017

| L<br>I<br>N<br>E | 10<br>Total<br>Acres<br>In<br>Block<br><br>(Tenths) | Organic                                  |   | Number of Trees/Vines                         |  | Complete Only if Numbers of Trees/Vines are not Reported in Cols. 13 and 14 |  |   |  |
|------------------|---|--|---|---|--|---|--|---|--|
|                  |   | 11<br>Certified<br>Acres<br><br>(Tenths) | 12<br>Transition<br>Acres<br><br>(Tenths) | 13<br>Number of<br>Bearing Age<br>Trees/Vines | 14<br>Number of<br>Non-Bearing<br>Age<br>Trees/Vines | 15<br>Percent of<br>Acres in<br>Block that<br>are of<br>Bearing<br>Age      | 16<br>Tree/Vine<br>Planting<br>Density in<br>Block<br>(Trees or<br>vines/Acre) | 17<br>Block Spacing   |  |
|                  |   |  |   |   |  |   |  | Distance Between<br>Trees/Vines in Row<br>And<br>Distance Between<br>Rows |  |
| 001              | 306   | 310                                      | 311                                       | 307   | 308  | 312   | 313  | ft. X ft.   |  |
| 002              | 306   | 310                                      | 311                                       | 307   | 308  | 312   | 313  | ft. X ft.   |  |
| 003              | 306   | 310                                      | 311                                       | 307   | 308  | 312   | 313  | ft. X ft.   |  |
| 004              | 306   | 310                                      | 311                                       | 307   | 308  | 312   | 313  | ft. X ft.   |  |
| 005              | 306   | 310                                      | 311                                       | 307   | 308  | 312   | 313  | ft. X ft.   |  |
| 006              | 306   | 310                                      | 311                                       | 307   | 308  | 312   | 313  | ft. X ft.   |  |
| 007              | 306   | 310                                      | 311                                       | 307   | 308  | 312   | 313  | ft. X ft.   |  |
| 008              | 306   | 310                                      | 311                                       | 307   | 308  | 312   | 313  | ft. X ft.   |  |
| 009              | 306   | 310                                      | 311                                       | 307   | 308  | 312   | 313  | ft. X ft.   |  |
| 010              | 306   | 310                                      | 311                                       | 307   | 308  | 312   | 313  | ft. X ft.   |  |

on enclosed supplement page(s).

Based on your current plan, please record your 1-year and 5-year plans to remove or plant acreage by fruit.  
(Record acres in tenths for each activity.)

| FRUIT           | Intentions to Topwork, Plant or Remove Acreage in 2017 |        |               |  | Intentions to Topwork, Plant or Remove Acreage in the Next 5 Years |        |               |
|-----------------|--|--------|---------------|--|--|--------|---------------|
|                 | TOPWORK or REPLANT                                     | REMOVE | NEW PLANTINGS |  | TOPWORK or REPLANT   | REMOVE | NEW PLANTINGS |
| Apples          | 222  | 223    | 263           |  | 235  | 244    | 253           |
| Pears, Bartlett | 280  | 224    | 264           |  | 236  | 245    | 254           |
| Pears, Winter   | 281  | 225    | 265           |  | 237  | 246    | 255           |
| Cherries, Sweet | 282  | 226    | 266           |  | 238  | 247    | 256           |
| Cherries, Tart  | 283  | 227    | 267           |  | 239  | 248    | 257           |
| Apricots        | 284  | 228    | 268           |  | 240  | 249    | 258           |
| Peaches         | 285  | 229    | 269           |  | 241  | 250    | 259           |
| Nectarines      | 286  | 230    | 270           |  | 242  | 251    | 260           |
| Plums/Prunes    | 287  | 231    | 271           |  | 243  | 252    | 261           |
| Pluots          | 275  | 276    | 277           |  | 278  | 279    | 262           |
| Grapes, Wine    | 420  | 232    | 272           |  | 422  | 217    | 220           |
| Grapes, Juice   | 421  | 233    | 273           |  | 423  | 218    | 221           |

| FRUIT         | Quantity of Grapes Not Harvested in 2016 Due to: |                     |                     |                         |                     |
|---------------|--|---------------------|---------------------|-------------------------|---------------------|
|               | Bird/Animal Loss (Tons)                          | Disease Loss (Tons) | Weather Loss (Tons) | Economic Reasons (Tons) | Quality Loss (Tons) |
| Grapes, Wine  | 291  | 294                 | 297                 | 288                     | 424                 |
| Grapes, Juice | 292  | 295                 | 298                 | 289                     | 425                 |

COMMENTS about unusual situations that would be helpful in understanding your operation would be appreciated.

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**SURVEY RESULTS**

Thank you for completing the survey. Survey results will be available on the Internet at <http://www.nass.usda.gov/wa/>.

Would you rather receive a brief summary mailed to you at a later date?  Yes  No

If additional help is needed, please call (360)709-2400 or (800)435-5883.

Reported by \_\_\_\_\_ Date \_\_\_\_\_ Phone \_\_\_\_\_

| Office Use     |          |            |      |      |      |               |
|----------------|----------|------------|------|------|------|---------------|
| R. Unit        | Response | Respondent | Mode | Enum | Eval | Date          |
| 9921           | 9901     | 9902       | 9903 | 9996 | 9900 | 9910 MM DD YY |
|                |          |            |      |      |      | Date: _____   |
| S/E Name _____ |          |            |      |      |      |               |

# Respondent Booklet

## 2017 Grape and Tree Fruit Acreage Study

### COUNTY CODES - Column 3

1 Adams  
 3 Asotin  
 5 Benton  
 7 Chelan  
 9 Clallam  
 11 Clark  
 13 Columbia  
 15 Cowlitz  
 17 Douglas  
 19 Ferry  
 21 Franklin  
 23 Garfield  
 25 Grant  
 27 Grays Harbor  
 29 Island  
 31 Jefferson  
 33 King  
 35 Kitsap  
 37 Kittitas  
 39 Klickitat  
 41 Lewis  
 43 Lincoln  
 45 Mason  
 47 Okanogan  
 49 Pacific  
 51 Pend Oreille  
 53 Pierce  
 55 San Juan  
 57 Skagit  
 59 Skamania  
 61 Snohomish  
 63 Spokane  
 65 Stevens  
 67 Thurston  
 69 Wahkiakum  
 71 Walla Walla  
 73 Whatcom  
 75 Whitman  
 77 Yakima

### FRUIT TYPE CODES – Column 5

420 Apples  
 421 Apricots  
 430 Cherries, Sweet  
 432 Cherries, Tart  
 444 Grapes, Juice  
 443 Grapes, Wine  
 439 Nectarines  
 450 Peaches  
 456 Pears, Bartlett  
 457 Pears, Winter  
 449 Plums & Prunes  
 141 Pluots

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### VARIETY CODES - Column 7

#### APPLE VARIETIES

103 Akane  
 104 Ambrosia  
 106 Aurora  
 124 Autumn Glory  
 105 Braeburn  
 126 Breeze  
 107 Cameo  
 109 Chehalis  
 111 Cortland  
 128 Cosmic Crisp (WA38)  
 110 Crimson Gold  
 149 Cripps Pink (Pink Lady)  
 113 Criterion  
 114 Earligold  
 118 Early Fuji  
 116 Elstar (Valstar)  
 115 Empire  
 112 Envy  
 117 Fuji / Red Fuji  
 102 Gala  
 119 Ginger Gold  
 121 Golden Delicious -(Standard)  
 120 Golden Delicious -(Smoothie / Gibson)  
 122 Golden Supreme  
 123 Granny Smith  
 125 Gravenstein  
 127 Honeycrisp  
 129 Idared  
 130 Jazz  
 131 Jonagold  
 133 Jonathan (Ruby Jon)  
 138 JUICI  
 140 Junami

162 Kanzi  
 132 Kiku  
 136 Lady Alice  
 134 Liberty  
 135 Lodi  
 137 Macoun  
 139 McIntosh  
 141 Melrose  
 142 Minneiska (Sweetango)  
 143 Mutsu  
 145 Newton  
 147 Northern Spy  
 146 Opal  
 148 Orin  
 154 Pacific Rose  
 150 Pinata  
 151 Pinova  
 158 Prime Gold  
 152 Ramey York  
 101 Red Delicious  
 156 Rome (Red Rome)  
 153 Sansa  
 163 Smitten  
 144 Sonya (Nevson)  
 155 Spartan  
 160 Sport  
 164 Sunrise Magic  
 165 Sweetie  
 166 Swiss Gourmet (Ariet)  
 157 Winesap  
 159 Winter Banana  
 161 Zestar  
 198 Other  
 199 Not Reported

#### APRICOT VARIETIES

202 Blenheim  
 221 Casselbrite  
 220 Chinese  
 201 Goldbar  
 206 Goldcot  
 203 Goldrich  
 204 Goldstrike  
 222 Moorpark  
 207 Patterson  
 209 Perfection  
 210 Puget Gold  
 211 Riland  
 213 Rival  
 215 Sun-glo  
 217 Tilton  
 219 Tomcot  
 205 Wenatchee Moorpark  
 298 Other  
 299 Not Reported

**CHERRY (All) VARIETIES**

|     |                           |
|-----|---------------------------|
| 301 | Attika (Kordia)           |
| 302 | Balaton (Tart Cherry)     |
| 304 | Benton                    |
| 303 | Bing (excl Sunset Bing)   |
| 305 | Black Republican          |
| 310 | Black Tartatian           |
| 306 | Brooks                    |
| 308 | Casmer                    |
| 307 | Chelan                    |
| 309 | Chinook                   |
| 340 | Cowiche                   |
| 312 | Cristalina                |
| 332 | D'oex                     |
| 314 | Early Robin               |
| 316 | Emperor Francis           |
| 318 | Gold                      |
| 328 | Index                     |
| 341 | Kiona                     |
| 311 | Lambert                   |
| 313 | Lapins                    |
| 320 | Montmorency (Tart Cherry) |
| 315 | Rainier                   |
| 317 | Regina                    |
| 319 | Royal Ann                 |
| 322 | Sam                       |
| 324 | Sandra Rose               |
| 326 | Santina                   |
| 330 | Schneider                 |
| 333 | Selah (Liberty Bell)      |
| 321 | Skeena                    |
| 323 | Sonata                    |
| 339 | Staccato                  |
| 342 | Stardust                  |
| 325 | Stella                    |
| 334 | Sumleta                   |
| 335 | Sumnue                    |
| 338 | Sunset Bing               |
| 327 | Sweetheart                |
| 329 | Tieton                    |
| 336 | Ulster                    |
| 331 | Van                       |
| 337 | Zing                      |
| 398 | Other                     |
| 399 | Not Reported              |

**GRAPES, JUICE VARIETIES**

|     |              |
|-----|--------------|
| 901 | Concord      |
| 902 | Niagara      |
| 908 | Other        |
| 909 | Not Reported |

**GRAPES, WINE VARIETIES**

|     |                                |
|-----|--------------------------------|
| 920 | Aligote                        |
| 921 | Aurore                         |
| 922 | Barbera                        |
| 923 | Cabernet Franc                 |
| 924 | Cabernet Sauvignon             |
| 925 | Campbell Early (Island Belle)  |
| 926 | Carmenere                      |
| 927 | Cascade                        |
| 928 | Chardonnay                     |
| 929 | Chasselas                      |
| 930 | Chenin Blanc                   |
| 931 | Cinsaut                        |
| 932 | Cournoise                      |
| 933 | Dolcetto                       |
| 934 | Gamay Beaujolais               |
| 935 | Gamay Noir                     |
| 936 | Gewurztraminer                 |
| 937 | Golden Muscat                  |
| 938 | Grenache                       |
| 939 | Joffre                         |
| 940 | Lemberger                      |
| 941 | Leon Millot                    |
| 942 | Madeline Angevine              |
| 943 | Madeline Sylvaner              |
| 944 | Malbec                         |
| 945 | Marechal Foch                  |
| 946 | Merlot                         |
| 947 | Mouvedre                       |
| 948 | Mueller-Thurgau                |
| 949 | Muscat Canelli                 |
| 950 | Muscat of Alexandria           |
| 951 | Muscat Ottonel                 |
| 952 | Nebbiolo                       |
| 953 | New York Muscat                |
| 954 | Okanogan Riesling              |
| 955 | Orange Muscat                  |
| 976 | Petit Sirah                    |
| 956 | Petit Verdot                   |
| 957 | Pinot Blanc                    |
| 958 | Pinot Gris                     |
| 977 | Pinot Meunier (Black Riesling) |
| 959 | Pinot Noir                     |
| 960 | Riesling                       |
| 961 | Rousanne                       |
| 962 | Royalty                        |
| 963 | Sangiovese                     |
| 964 | Sauvignon blanc                |
| 965 | Semillon                       |
| 966 | Siegenerbe                     |
| 967 | Souzao                         |
| 968 | Syrah                          |
| 969 | Tempranillo                    |
| 970 | Tinta Madeira                  |
| 971 | Tinto Cao                      |
| 972 | Touriga                        |
| 973 | Viognier                       |
| 974 | White Zinfandel                |
| 975 | Zinfandel                      |
| 998 | Other                          |
| 999 | Not Reported                   |

**NECTARINE VARIETIES**

|     |                  |
|-----|------------------|
| 406 | Arctic Glo       |
| 402 | Arctic Pride     |
| 401 | Arctic Queen     |
| 408 | Arctic Rose      |
| 427 | August Red       |
| 428 | Autumn Red       |
| 403 | Bright Pearl     |
| 429 | Byrd             |
| 404 | Crystal Rose     |
| 416 | Early Red        |
| 430 | Fairlane         |
| 405 | Fantasia         |
| 418 | Fire Sweet       |
| 407 | Firebite         |
| 431 | Fireburst        |
| 432 | First Red        |
| 433 | Flame            |
| 409 | Flavortop        |
| 442 | Grand Pearl      |
| 444 | HoneyKist        |
| 440 | Honey Royal      |
| 410 | Independence     |
| 434 | Laurie Red       |
| 411 | Red Gold         |
| 413 | Scarlet Sun      |
| 435 | September Red    |
| 436 | Sparkling Red    |
| 412 | Spring Brite     |
| 414 | Spring Diamond   |
| 437 | Summer Beaut     |
| 417 | Summer Blush     |
| 415 | Summer Bright    |
| 419 | Summer Fire      |
| 438 | Summer Grand     |
| 439 | Sunfree          |
| 423 | Sun Glo          |
| 421 | Supreme Red      |
| 424 | Sweet Scarlet    |
| 441 | Washington Pride |
| 425 | Western Pride    |
| 443 | Western Sweet    |
| 426 | Zee Gold         |
| 498 | Other            |
| 499 | Not Reported     |



**PEACH VARIETIES**

570 Allstar  
 501 Angelus  
 571 Arctic Gem  
 510 August Lady  
 572 Avalon  
 573 Baby Gold 5  
 574 Blazingstar  
 502 Blushing Star  
 532 Brendasun  
 575 Canadian Harmony  
 576 Coral Star  
 504 Cresthaven  
 530 Crimson Lady  
 508 David Sun  
 503 Delta  
 505 Diamond Princess  
 506 Donut  
 507 Elberta  
 509 Elegant Lady  
 580 Encoore  
 511 Fancy Lady  
 513 Flamecrest  
 514 Flaming Fury  
 515 Flavorcrest  
 552 Frost  
 581 Glohaven  
 517 Glory  
 582 Glowingstar  
 516 Gold Medal  
 518 Golden Alberta  
 583 Golden Jubilee  
 584 Goldmine (Arkansas 9)  
 519 Hale  
 521 John Henry  
 534 June Lady  
 520 July Sun  
 523 June Pride  
 524 Jupiter  
 525 Lady Nancy  
 585 Loring  
 586 M A Blake  
 587 Madison  
 588 Newhaven  
 527 NJ252  
 529 O'Henry  
 531 PF series (PF Lucky 13)  
 589 Red Freemont  
 535 Red Haven  
 591 Red Lady  
 536 Red Top  
 582 Red Globe  
 593 Redskin  
 594 Redstar  
 537 Regal  
 539 Regina  
 541 Rich Lady  
 542 Rio oso Gem  
 543 Risingstar  
 545 Roza  
 547 Ryan Sun  
 548 Saturn  
 538 Scarlet Lady  
 568 Sierra Lady  
 549 Sierra Gem  
 550 Snow Fire  
 551 Snow Giant

553 Snow King  
 555 Snowbrite  
 512 Starfire  
 557 Sugar Lady  
 559 Summer Lady  
 581 Summer Prince  
 583 Summer Sweet  
 584 Suncrest  
 554 Sweet Dream  
 526 Tiffany Rose  
 556 Valley Sweet  
 528 Veteran  
 540 White Hale  
 585 White Lady  
 587 Zee Lady  
 588 Other  
 599 Not Reported

**PEAR SUMMER/FALL VARIETIES**

601 Bartlett  
 602 Red Bartlett  
 603 Red Sensation  
 604 Starkrimson  
 606 Tosca  
 698 Other  
 699 Not Reported

**PEAR (WINTER) VARIETIES**

701 Asian  
 703 Bosc  
 720 Bosc, Golden  
 704 Cascade  
 705 Comice  
 707 Concorde  
 709 D'Anjou  
 711 D'Anjou, Red  
 721 Forelle  
 712 Kalle  
 713 Packham  
 715 Red Clapp  
 717 Seckel  
 719 Taylors Gold  
 798 Other  
 799 Not Reported

**PLUM & PRUNE VARIETIES**

801 Autumn Sweet  
 803 Black Amber  
 802 Bluefre  
 804 Castleton  
 812 Catalina  
 808 Damson  
 805 Duarte  
 807 Early Italian  
 808 Elephant Heart  
 811 Empress  
 813 Friar  
 809 Late Italian (Standard)  
 814 NY 6  
 816 NY 9  
 815 President  
 819 Santa Rosa  
 821 Shiro

822 Simka  
 823 Stanley  
 810 Yellow Egg  
 824 Yellow Lady  
 848 Other  
 849 Not Reported

**PLUOT VARIETIES**

860 Crimson Sweet  
 861 Dapple Dandy  
 862 Early Dapple  
 863 Emerald Drop  
 864 Flavor Delight  
 865 Flavor Fall  
 866 Flavor Finale  
 867 Flavor Grenade  
 868 Flavor Heart  
 869 Flavor Jewel  
 870 Flavor King  
 871 Flavor Prince  
 872 Flavor Queen  
 873 Flavor Rich  
 874 Flavor Royal  
 875 Flavor Supreme  
 876 Flavorich  
 877 Flavorosa  
 878 Geo Pride  
 879 Raspberry Jewel  
 880 Red Ray  
 881 Splash  
 882 Sweet Treat  
 883 Tropical Plumana  
 888 Other  
 889 Not Reported

**AMERICAN VITICULTURAL AREA CODES - Column 8**

1 Columbia Gorge  
 2 Columbia Valley  
 3 Horse Heaven Hills  
 4 Puget Sound  
 5 Rattlesnake Hills  
 6 Red Mountain  
 7 Wahluke Slope  
 8 Walla Walla Valley  
 9 Yakima Valley  
 10 Snipes Mountain  
 11 Lake Chelan  
 12 Ancient Lakes  
 13 Lewis-Clark Valley  
 14 Naches Heights

**YEAR CODES - Column 9**

1 Prior to 1996  
 2 1996-2000  
 3 2001-2005  
 4 2006-2011  
 5 2012  
 6 2013  
 7 2014  
 8 2015  
 9 2016