



# Certified Organic Acreage and Sales in Washington State: 2008-2016

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[http://csanr.wsu.edu/pages/Organic\\_Statistics](http://csanr.wsu.edu/pages/Organic_Statistics) or <http://tfrec.cahnrs.wsu.edu/organicag/organic-statistics/>

## **Introduction and Approach**

WSU's Center for Sustaining Agriculture and Natural Resources (CSANR) has compiled state organic crop acreage statistics since 2004 to provide annual updates of current, detailed information for use in farm and business planning, decision making, and risk management. This publication contains a series of tables with numerical data on organic farm number and acreage (2008-2016) and sales (2009-2016) based on certifier data. Earlier data, beginning in 2005, and graphical presentations of these data are available at [http://csanr.wsu.edu/pages/Organic\\_Statistics](http://csanr.wsu.edu/pages/Organic_Statistics). The Washington State Department of Agriculture (WSDA) has historically been the primary certifier working in the state, certifying an estimated 90% or more of the state's annual organic acreage. Oregon Tilth Certified Organic (OTCO) and California Certified Organic Farmers (CCOF) have been the next two largest certifiers, typically covering 6–9% of the acreage. Data from additional certifiers such as Quality Assurance International (QAI), Stellar Certification Services, and International Certification Services (ICS), and OneCert have been included as available.

The goal of the annual CSANR organic statistics reports is to provide timely, detailed, and accurate data regarding certified organic farms in the state to growers, businesses, policymakers, and other interested parties. The USDA's Economic Research Service (ERS) and National Agricultural Statistics Service (NASS) have also collected state and national information on organic crops when funding has been available; however, publication has typically lagged several years behind the reported production year. The ERS data are based on certifier-reported values but have limited detail by individual crop. For example, apples are the only segregated temperate tree fruit crop (ERS 2013). NASS administered the 2008 Organic Production Survey (NASS 2010), the 2011 Certified Organic Production Survey (NASS 2013) the 2014 Organic Survey (NASS 2015), and the 2015 Organic Survey (NASS 2016). The 2008 and 2014 Organic Production Surveys included both certified and exempt producers; data reported in this publication are for certified producers only. The NASS 2011 survey included only certified producers, but participation was voluntary. Values in the survey results sometimes differ considerably from those reported in this publication, as not all growers participate in the surveys, and not all data are collected in the same manner. For example, the NASS surveys mostly report harvested acres, while this report contains all reported certified acres with no information about harvest status. The CSANR data complement these other sources and add value as they are provided in a more-timely manner each year (e.g., preliminary end-of-year data presented at fall and winter meetings so growers can use them in their production planning for the coming year) and at greater detail than the USDA sources. In addition, all data submitted from growers to USDA National Organic Program (NOP)-accredited certifiers are verified during farm inspections and audited for accuracy and completeness, whereas NASS data are not.

While the certifier data are expected to be the most accurate available, there are some inconsistencies. For example, certifier data collection methods vary and reporting forms have changed over time. Individual crops are not always entered into certifier databases in the same category each year, especially crops such as cover crops, forage, and seed crops.

## **Overview of Tables**

The certified acreage numbers present a reliable picture of certified organic crop production in the state. Transition acres (land currently managed as organic that has not met the NOP 3-year period of no prohibited materials) are reported here where producers and certifiers opted to provide it. However, growers are not required to register transition acreage (as of 2002), and the reported transition numbers may underestimate the actual total. Historically, a large proportion of the reported transition acres have been tree fruit acres and other perennial crops. While likely under-reported, these numbers were still useful in predicting growth that occurred in the industry during the last decade. County acreage values are considered estimates because site information from farms with sites in multiple counties has not always

been segregated for the specific county. The newer WSDA database (beginning in 2016) links each site to the county it is in, improving accuracy.

The 2008-2016 values include data from WSDA, OTCO, CCOF, ICS, QAI and Stellar; 2015 and 2016 values also include data from OneCert. QAI and Stellar data are incomplete. In 2016, 4 farms were certified by Stellar and 3 poultry operations were certified by QAI. Whereas these 7 were included in the farm count total, acreage values were available for just 2 of these operations.

Table 1 provides an overview of acreage of the major crop categories from 2008-2016. Forage, tree fruit, and vegetables have been the leading categories (% of total column). Total certified area in the state peaked in 2009 and gradually declined each year from 2010 to 2014, while total acreage (including double crop) increased in 2014, 2015, and 2016. Total area (certified site acreage) is distinguished from total acreage which includes double-cropped land, most common for peas and sweet corn in the Columbia Basin; total acreage may not include some parcels of undefined land such as very small areas of crops, non-cropped land, or, beginning in 2016, areas of “non-commercial” value (e.g. fallow, cover crops, natural areas). Hay fields harvested or grazed multiple times had area counted just once for acreage.

Table 2(a-f) provides details by individual crop, as reported to the certifier. Major varieties are segregated for apples, pears and grapes. Some producers report different classes of wheat (e.g., hard red, soft white) but typically do not report varieties. Diversified farms often report land as ‘Mixed Vegetables’ that cannot be segregated for individual vegetable crops.

Table 3 presents the number of farms (certified or transition only) and acres by county for 2016. The percent columns describe what portion of certified farm numbers and acres are within that county (given that sites are not always tied to actual county), and are ordered alphabetically first for counties east of the Cascades, and then for those west of the Cascades. This allows an examination of the organic sector in these two very different agroclimatic regions. Tables 4 and 5 simply track changes in certified farm number and acreage by county over time.

Table 6(a-b) presents farmgate sales as reported by WSDA and OTCO-certified producers; numbers typically do not include handler or processor income, but may include sales of some value-added products from the farm itself. An (nr) was inserted for counties where there were no reported values, or where necessary to protect confidentiality. There is temporal variability in the income period; growers can report on calendar, crop or fiscal year basis. Another source of variability is the crop or product marketing period. For example, an apple crop may be harvested in September and sold at various points over the next 10-12 months. Producers differ in the reporting period they choose to use, and thus value for a single apple crop could be split among two different reporting years. Comparable data to 2009-2017 were not available for 2008 and thus 2008 was not included.

Values in Table 6(a-b) underestimate total Washington organic farmgate sales for various reasons: data from other certifiers (e.g. CCOF, QAI) are not included; data are not collected from WSDA and OTCO-certified producers who do not recertify in the year following the sales period; and, some producer-processor operations do not segregate and report gross farmgate value, but instead report value-added totals not included in these tables. For example, a producer-processor winery may report the sales value of the wine, but not the value of the grapes. WSDA- and OTCO-certified producer farmgate data are not available for a few major producer-processor operations (e.g., eggs, broilers, wine grapes) and for dairies representing about 10% of organic milkers in the state. Much of the missing data is for products from western Washington; thus the aggregate sales values for producers west of the Cascades is likely to be underestimated.

The 2015 Organic Survey by NASS (2016) reported gross farmgate sales in Washington of \$626.4 million. This is higher than the \$592.1 million reported here. As in the past, part of the difference is due to lack of sales data from producer/processors described above. Mushroom production of at least \$18 million is not included. At the same time, participation in the NASS survey was 60% for Washington. Thus, since our data underestimate total sales due to the missing items above, and the NASS data underestimate total sales due to low survey participation, it is likely that the actual farmgate sales for 2015 exceeded \$630 million. The estimate for 2016 is \$652 million, representing continued growth from the previous year.

Dairy livestock numbers are found in Table 7. Organic dairies in the state expanded rapidly during the mid-2000s as demand for organic dairy products was rising. The number of certified dairies doubled from 23 in 2006, to 46 in 2008, then declined during the recession; organic dairy numbers appear to have recovered, with 45 certified in 2016. Despite regulatory changes and shortages of organic feed, organic cow numbers have also increased since 2010, and represented 3.3% of the state dairy herd in 2016.

The values reported here were compiled from data provided by multiple certifiers, based on farm certification records. This report covers acreage through calendar year 2016, and sales through the end of 2016, as reported by producers.

**Further detailed organic statistical information compiled by WSU-CSANR is posted online at [http://csanr.wsu.edu/pages/Organic\\_Statistics](http://csanr.wsu.edu/pages/Organic_Statistics) and at <http://tfrec.cahnrs.wsu.edu/organicag/organic-statistics/>**

## Tables

Table 1. Summary of certified organic acreage in Washington, 2008-2016.

| Category                       | Acres  |         |         |        |        |        |        |        |         |       | Change (ac) | % of Total |
|--------------------------------|--------|---------|---------|--------|--------|--------|--------|--------|---------|-------|-------------|------------|
|                                | 2008   | 2009    | 2010    | 2011   | 2012   | 2013   | 2014   | 2015   | 2016    | T2016 | C15-16      | C2016      |
| Forage                         | 30,031 | 32,659  | 27,753  | 26,823 | 28,949 | 29,642 | 27,779 | 29,661 | 32,615  | 937   | 2,954       | 28.6       |
| Tree Fruit                     | 16,983 | 21,862  | 20,662  | 19,592 | 18,855 | 19,139 | 19,228 | 19,685 | 21,771  | 783   | 2,086       | 19.1       |
| Vegetables                     | 19,836 | 15,668  | 13,263  | 15,191 | 15,585 | 16,326 | 19,945 | 21,474 | 24,639  | 4,991 | 3,165       | 21.6       |
| Grains, Dry Beans, Oilseeds    | 8,508  | 13,084  | 14,540  | 10,991 | 9,867  | 8,530  | 11,253 | 12,760 | 19,114  | 652   | 6,354       | 16.8       |
| Small Fruit & Nuts             | 3,205  | 3,392   | 3,707   | 4,276  | 4,176  | 4,214  | 4,245  | 4,165  | 4,762   | 461   | 597         | 4.2        |
| Herbs                          | 1,137  | 1,190   | 1,358   | 1,565  | 1,585  | 1,407  | 1,133  | 1,203  | 1,342   | --    | 139         | 1.2        |
| Other Crops                    | 787    | 811     | 986     | 982    | 1,437  | 2,009  | 1,192  | 2,333  | 569     | --    | -1,764      | 0.5        |
| Fallow                         | 9,819  | 15,303  | 15,769  | 7,697  | 6,751  | 4,111  | 3,072  | 3,509  | 66      | --    | -3,443      | 0.1        |
| Other Land                     | 985    | 1,226   | 1,027   | 732    | 534    | 511    | 1,007  | 845    | 782     | --    | -63         | 0.7        |
| Undefined Area                 | 4,848  | 3,141   | 2,868   | 2,259  | 1,522  | 922    | 674    | 143    | 8,291   | 677   | 8,148       | 7.3        |
| Total Acres (with double crop) | 96,139 | 108,336 | 101,933 | 90,108 | 89,261 | 86,811 | 89,528 | 95,778 | 113,951 | 8,501 | 10,025      | 100%       |
| Total Area                     | 92,555 | 104,962 | 100,553 | 89,186 | 88,072 | 84,868 | 84,848 | 91,088 | 107,003 | 8,153 | 15,915      | --         |
| Annual % Change                | 18     | 13      | -4      | -11    | -1     | -3.6   | -.02   | 7.4    | 17.5    | --    | --          | --         |
| No. of Producers               | 689-53 | 753-10  | 735-5   | 729-2  | 731-3  | 712-4  | 700-7  | 724-22 | 797     | 34    | --          | --         |

Combined certifier information; T=Transition to organic acres. Vegetable category includes melons. Certified acreage totals include 6,948 ac double crop; transition includes 347 double crop ac. Total 2016 certified site area is 107,003 ac including 8,291 ac undefined land (either not cropped or from multiple small cropped sites). The numbers of producers in red font are farms in transition to organic with no certified organic land. In 2016, WSDA database typically did not include fallow, cover crops, and some smaller crop acreages, resulting in the increased undefined land value.

Table 2a. Certified organic acres in Washington by specific crop, 2008-2016: Forage.

|                              | Acres         |               |               |               |               |               |               |               |               |            |
|------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|------------|
| Forage                       | 2008          | 2009          | 2010          | 2011          | 2012          | 2013          | 2014          | 2015          | 2016          | T2016      |
| Hay*                         | 16,454        | 18,532        | 17,022        | 18,459        | 19,235        | 19,288        | 18,436        | 18,838        | 22,379        | 937        |
| <i>Alfalfa</i>               | 4,527         | 4,628         | 2,888         | 2,626         | 2,504         | 2,046         | 2,095         | 3,175         | 3,688         | 623        |
| <i>Mixed (Alfalfa-Grass)</i> | 1,626         | 1,731         | 1,401         | 1,286         | 779           | 190           | 225           | 484           | 472           | --         |
| <i>Grass and Mixed Grass</i> | 5,133         | 4,316         | 5,127         | 5,358         | 4,739         | 4,890         | 7,549         | 8,810         | 15,684        | 314        |
| <i>Small Grain</i>           | 516           | 449           | 386           | 529           | 190           | 110           | 243           | 269           | 959           | --         |
| <i>Unspecified</i>           | 4,652         | 7,408         | 7,220         | 8,660         | 11,023        | 12,052        | 8,324         | 6,100         | 1,576         | --         |
| Corn Silage                  | 166           | 1,020         | 459           | 490           | 664           | 858           | 767           | 1,027         | 998           | --         |
| Pasture                      | 13,411        | 13,085        | 10,271        | 7,874         | 9,049         | 9,308         | 8,576         | 9,796         | 9,219         | --         |
| Forage, Unspecified          | --            | 22            | --            | --            | --            | 188           | --            | --            | 19            | --         |
| <b>Total Forage</b>          | <b>30,031</b> | <b>32,659</b> | <b>27,752</b> | <b>26,823</b> | <b>28,949</b> | <b>29,642</b> | <b>27,779</b> | <b>29,661</b> | <b>32,615</b> | <b>937</b> |

T=Transition to organic. Hay acreage includes ground with any cut hay (e.g., haylage, silage); acres were counted only once. Typically 30% or more of hay ground acres were reported as also used as pasture but acres were counted only once.

Table 2b. Certified organic acres in Washington by specific crop, 2008-2016: Grains, dry beans and oilseeds.

| Grains, Dry Beans & Oilseeds   | Acres        |               |               |              |              |              |              |               |               |            |
|--------------------------------|--------------|---------------|---------------|--------------|--------------|--------------|--------------|---------------|---------------|------------|
|                                | 2008         | 2009          | 2010          | 2011         | 2012         | 2013         | 2014         | 2015          | 2016          | T2016      |
| <b>Grains</b>                  |              |               |               |              |              |              |              |               |               |            |
| Wheat                          | 4,644        | 7,791         | 6,526         | 5,785        | 5,189        | 3,929        | 4,721        | 7,915         | 12,056        | 140        |
| <i>Wheat, Hard Red</i>         | 96           | 803           | 1,686         | 1,140        | 959          | 1,260        | 798          | 1,658         | 7,094         | 140        |
| <i>Wheat, Soft White</i>       | 440          | 561           | 447           | 100          | 63           | 273          | 654          | 566           | 247           | --         |
| <i>Other &amp; Unspecified</i> | 3,779        | 5,524         | 3,210         | 3,522        | 3,576        | 1,630        | 2,702        | 5,013         | 4,260         | --         |
| <i>Spelt</i>                   | 254          | 747           | 1,013         | 935          | 481          | 539          | 244          | 453           | 296           | --         |
| <i>Emmer</i>                   | 75           | 156           | 170           | 88           | 99           | 142          | 204          | 99            | 82            | --         |
| <i>Einkorn</i>                 | --           | --            | --            | --           | 11           | 85           | 119          | 126           | 77            | --         |
| Corn                           | 2,265        | 2,796         | 2,672         | 1,648        | 1,707        | 1,531        | 1,506        | 1,635         | 2,283         | --         |
| Triticale                      | 365          | 705           | 1,137         | 940          | 629          | 772          | 734          | 417           | 582           | --         |
| Rye                            | 28           | 131           | 206           | 35           | 4            | 4            | 9            | 55            | 1             | --         |
| Barley                         | 311          | 231           | 151           | 783          | 788          | 962          | 673          | 859           | 682           | 134        |
| Oat                            | 112          | 74            | 41            | 162          | 70           | 147          | 1,665        | 138           | 92            | --         |
| Buckwheat                      | 2            | --            | 21            | 3            | --           | --           | --           | 33            | 56            | --         |
| Teff                           | --           | --            | 50            | --           | --           | --           | --           | --            | --            | --         |
| Other & Unspecified            | 17           | 39            | 145           | 87           | 192          | 160          | 349          | 215           | 115           | 173        |
| <b>Total Grains</b>            | <b>7,744</b> | <b>11,767</b> | <b>10,949</b> | <b>9,443</b> | <b>8,579</b> | <b>7,505</b> | <b>9,657</b> | <b>11,257</b> | <b>15,867</b> | <b>447</b> |
| <b>Dry Beans/Pulse</b>         |              |               |               |              |              |              |              |               |               |            |
| Pea                            | 87           | 167           | 252           | 58           | 189          | 76           | 465          | 113           | --            | --         |
| Lentil                         | 75           | --            | --            | --           | --           | --           | --           | --            | 84            | --         |
| White kidney Bean              | --           | 19            | 15            | 24           | --           | --           | 4            | --            | --            | --         |
| Fava Bean                      | 1            | 1             | 1             | 1            | --           | --           | 6            | --            | 5             | --         |
| Pinto Bean                     | 20           | 170           | 505           | 130          | 588          | 542          | 901          | 588           | 422           | 205        |
| Black Bean                     | --           | --            | 865           | 13           | --           | 23           | 59           | 31            | 244           | --         |
| Other & Unspecified            | 481          | 933           | 1,823         | 1,320        | 510          | 276          | 99           | 537           | 2,492         | --         |
| <b>Total Dry Beans/Pulse</b>   | <b>664</b>   | <b>1,290</b>  | <b>3,461</b>  | <b>1,546</b> | <b>1,287</b> | <b>917</b>   | <b>1,534</b> | <b>1,269</b>  | <b>3,247</b>  | <b>205</b> |
| Unspecified Grains/Dry Beans   | --           | 19            | 34            | 1            | --           | --           | 11           | --            | --            | --         |
|                                |              |               |               |              |              |              |              |               |               |            |
| <b>Oilseeds</b>                |              |               |               |              |              |              |              |               |               |            |
| Canola                         | 87           | --            | --            | --           | --           | 105          | --           | --            | --            | --         |
| Flaxseed                       | 1            | --            | 90            | 1            | --           | --           | --           | --            | --            | --         |
| Camelina                       | 10           | 8             | 2             | --           | 1            | 3            | 51           | 99            | --            | --         |
| Sunflower                      | 2            | --            | --            | --           | --           | --           | --           | --            | --            | --         |
| Mustard                        | --           | --            | 4             | --           | --           | --           | --           | 125           | --            | --         |
| <b>Total Oilseeds</b>          | <b>100</b>   | <b>8</b>      | <b>96</b>     | <b>1</b>     | <b>1</b>     | <b>108</b>   | <b>51</b>    | <b>224</b>    | <b>--</b>     | <b>--</b>  |

Table 2c. Certified organic acres in Washington by specific crop, 2008-2016: Vegetables.

| Vegetable               | Acres         |               |               |               |               |               |               |               |               |            |
|-------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|------------|
|                         | 2008          | 2009          | 2010          | 2011          | 2012          | 2013          | 2014          | 2015          | 2016          | T2016      |
| <b>Assorted</b>         |               |               |               |               |               |               |               |               |               |            |
| Asparagus               | 98            | 84            | 83            | 135           | 159           | 157           | 167           | 125           | 163           | 22         |
| Pea                     | 5,243         | 3,256         | 3,636         | 3,241         | 3,975         | 4,259         | 4,776         | 4,236         | 5,276         | --         |
| Pepper                  | 15            | 41            | 32            | 29            | 37            | 44            | 42            | 65            | 90            | --         |
| Salad Greens            | 35            | 96            | 83            | 86            | 83            | 109           | 148           | 116           | 193           | --         |
| <i>Lettuce</i>          | 29            | 42            | 37            | 35            | 42            | 45            | 54            | 46            | 42            | --         |
| <i>Spinach</i>          | 1             | 10            | 15            | 15            | 10            | 25            | 55            | 59            | 143           | --         |
| <i>Other, Mixed</i>     | 5             | 44            | 31            | 36            | 31            | 39            | 39            | 11            | 8             | --         |
| Sweet corn              | 7,689         | 5,528         | 4,462         | 6,091         | 5,178         | 4,768         | 7,330         | 7,869         | 9,301         | 582        |
| Tomato                  | 50            | 38            | 39            | 36            | 50            | 31            | 37            | 29            | 26            | --         |
| Eggplant                | 3             | 6             | 6             | 12            | 16            | 9             | 8             | 13            | 6             | --         |
| Rhubarb                 | 12            | 9             | 9             | 14            | 32            | 32            | 36            | 32            | 40            | 3          |
| Mixed Vegetable & Other | 1,186         | 1,084         | 1,104         | 1,251         | 1,851         | 1,546         | 1,096         | 948           | 935           | 176        |
| <b>Allium</b>           |               |               |               |               |               |               |               |               |               |            |
| Garlic                  | 35            | 35            | 17            | 50            | 34            | 48            | 39            | 43            | 54            | --         |
| Leek                    | 124           | 103           | 135           | 172           | 163           | 148           | 146           | 124           | 103           | --         |
| Onion                   | 1,051         | 653           | 408           | 499           | 480           | 664           | 783           | 941           | 1,274         | --         |
| Other & Unspecified     | 9             | 13            | 16            | 9             | 13            | 18            | 14            | 33            | 32            | --         |
| <b>Bean</b>             |               |               |               |               |               |               |               |               |               |            |
| Green, Snap             | 1,432         | 2,107         | 1,169         | 1,602         | 1,247         | 1,505         | 1,788         | 2,451         | 1,339         | --         |
| Black, Shell            | 30            | --            | --            | --            | --            | --            | --            | --            | --            | --         |
| Fava, Shell             | 2             | --            | 1             | 1             | 4             | --            | 9             | 5             | --            | --         |
| Lima, Shell             | 183           | 183           | 215           | 48            | 62            | 268           | 240           | 109           | --            | --         |
| Edamame, Shell          | --            | --            | --            | 5             | --            | --            | --            | --            | --            | --         |
| <b>Brassica</b>         |               |               |               |               |               |               |               |               |               |            |
| Broccoli                | 58            | 32            | 21            | 20            | 10            | 36            | 32            | 156           | 184           | --         |
| Brussels Sprout         | --            | --            | --            | --            | 4             | 3             | 1             | 32            | 19            | --         |
| Cabbage                 | 33            | 29            | 35            | 30            | 23            | 16            | 23            | 34            | 40            | --         |
| Cauliflower             | 6             | 8             | 8             | 4             | 7             | 8             | 5.5           | 4             | 4             | --         |
| Chard                   | --            | --            | --            | --            | 10            | 6             | 8             | 21            | 21            | --         |
| Kale                    | 3             | 15            | 14            | 12            | 11            | 14            | 20            | 49            | 48            | --         |
| Other & Unspecified     | 4             | 9             | 17            | 6             | 2             | 46            | 17            | 11            | 6             | --         |
| <b>Cucurbit</b>         |               |               |               |               |               |               |               |               |               |            |
| Cucumber                | 80            | 79            | 85            | 69            | 65            | 61            | 69            | 82            | 88            | --         |
| Watermelon              | 45            | 34            | 120           | 39            | 52            | 9             | 56            | 121           | 121           | --         |
| Melons, Mixed           | 32            | 53            | 35            | 36            | 37            | 41            | 40            | 51            | 46            | --         |
| Squash, Mixed           | 109           | 170           | 152           | 261           | 312           | 373           | 340           | 576           | 927           | --         |
| Pumpkin                 | 68            | 37            | 60            | 77            | 22            | 34            | 31            | 25            | 97            | --         |
| <b>Root and Tuber</b>   |               |               |               |               |               |               |               |               |               |            |
| Beet                    | 21            | 38            | 46            | 29            | 103           | 100           | 216           | 253           | 421           | --         |
| Carrot                  | 552           | 217           | 215           | 273           | 280           | 240           | 522           | 571           | 973           | --         |
| Parsnip                 | 3             | 2             | 3             | 1             | 4             | 9             | 7             | 7             | 9             | --         |
| Potato                  | 1,600         | 1,697         | 1,032         | 1,044         | 1,253         | 1,717         | 1,895         | 2,333         | 2,741         | --         |
| Seed Potato             | 24            | 4             | --            | 2             | 2             | 2             | --            | --            | --            | --         |
| Radish                  | --            | 4             | 4             | 4             | 2             | 3             | 1             | 4             | 4             | --         |
| Turnip                  | 1             | 4             | 2             | 3             | 1             | 1             | 2             | 2             | --            | --         |
| Other & Unspecified     | --            | --            | --            | --            | 1             | 1             | --            | 3             | 58            | --         |
| <b>Total Vegetables</b> | <b>19,836</b> | <b>15,668</b> | <b>12,095</b> | <b>15,191</b> | <b>15,585</b> | <b>16,326</b> | <b>19,945</b> | <b>21,474</b> | <b>24,639</b> | <b>783</b> |



Table 2d. Certified organic acres in Washington by specific crop, 2008-2016: Tree fruit.

| Tree Fruit               | Acres         |               |               |               |               |               |               |               |               |              |
|--------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------|
|                          | 2008          | 2009          | 2010          | 2011          | 2012          | 2013          | 2014          | 2015          | 2016          | T2016        |
| <b>Apple</b>             |               |               |               |               |               |               |               |               |               |              |
| Gala                     | 2,710         | 3,458         | 3,201         | 3,332         | 3,207         | 3,264         | 3,333         | 3,437         | 4,159         | 959          |
| Fuji                     | 2,280         | 3,045         | 3,366         | 3,472         | 3,449         | 3,354         | 3,235         | 3,271         | 3,689         | 859          |
| Honeycrisp               | 756           | 879           | 1,099         | 1,087         | 1,158         | 1,587         | 1,727         | 1,804         | 2,034         | 1,030        |
| Red Delicious            | 1,459         | 1,630         | 1,461         | 1,380         | 1,337         | 1,375         | 1,344         | 1,303         | 1,383         | 264          |
| Granny Smith             | 1,268         | 1,700         | 1,470         | 1,364         | 1,274         | 1,258         | 1,223         | 1,263         | 1,394         | 369          |
| Golden Delicious         | 1,154         | 1,480         | 988           | 900           | 768           | 739           | 798           | 797           | 823           | 162          |
| Gold/Yellow type, other  | 71            | 77            | 70            | 88            | 128           | 157           | 146           | 151           | 156           | --           |
| Cripps Pink              | 1,047         | 1,081         | 1,016         | 952           | 828           | 841           | 897           | 888           | 989           | 195          |
| Braeburn                 | 956           | 1,083         | 884           | 551           | 479           | 443           | 315           | 268           | 269           | 12           |
| Cameo®                   | 436           | 436           | 458           | 552           | 399           | 319           | 322           | 292           | 298           | 1            |
| Other & Unspecified      | 799           | 866           | 777           | 618           | 630           | 693           | 712           | 805           | 997           | 393          |
| <b>Total Apple</b>       | <b>12,936</b> | <b>15,735</b> | <b>14,790</b> | <b>14,296</b> | <b>13,657</b> | <b>14,030</b> | <b>14,052</b> | <b>14,283</b> | <b>16,191</b> | <b>4,244</b> |
| <b>Pear</b>              |               |               |               |               |               |               |               |               |               |              |
| Bartlett                 | 591           | 656           | 692           | 629           | 627           | 631           | 596           | 643           | 715           | 172          |
| D'Anjou                  | 519           | 616           | 636           | 614           | 618           | 564           | 586           | 646           | 706           | 92           |
| Bosc                     | 223           | 276           | 301           | 282           | 322           | 310           | 315           | 350           | 380           | 51           |
| Red D'Anjou              | 67            | 83            | 95            | 94            | 93            | 79            | 100           | 125           | 139           | 31           |
| Red Bartlett             | 52            | 88            | 69            | 55            | 40            | 39            | 41            | 56            | 65            | 8            |
| Concorde                 | 60            | 43            | 31            | 31            | 34            | 34            | 38            | 44            | 49            | 14           |
| Asian                    | 43            | 44            | 43            | 33            | 34            | 29            | 18            | 28            | 27            | --           |
| Other & Unspecified      | 158           | 158           | 166           | 179           | 132           | 134           | 149           | 154           | 162           | 6            |
| <b>Total Pear</b>        | <b>1,713</b>  | <b>1,964</b>  | <b>2,033</b>  | <b>1,917</b>  | <b>1,900</b>  | <b>1,820</b>  | <b>1,843</b>  | <b>2,050</b>  | <b>2,243</b>  | <b>374</b>   |
| <b>Stone Fruit</b>       |               |               |               |               |               |               |               |               |               |              |
| Apricot                  | 107           | 265           | 299           | 296           | 266           | 285           | 299           | 260           | 251           | --           |
| Cherry                   | 1,738         | 2,437         | 2,147         | 1,827         | 1,792         | 1,850         | 1,939         | 2,056         | 2,078         | 373          |
| Nectarine                | 114           | 472           | 550           | 528           | 488           | 464           | 440           | 395           | 379           | --           |
| Peach                    | 199           | 644           | 701           | 619           | 618           | 594           | 580           | 553           | 553           | --           |
| Plum/Prune/Pluot         | 97            | 130           | 125           | 92            | 89            | 64            | 58            | 56            | 75            | --           |
| Other & Unspecified      | 79            | 151           | 13            | 17            | 45            | 22            | 17            | 32            | --            | --           |
| <b>Total Stone Fruit</b> | <b>2,334</b>  | <b>4,099</b>  | <b>3,835</b>  | <b>3,379</b>  | <b>3,298</b>  | <b>3,279</b>  | <b>3,333</b>  | <b>3,352</b>  | <b>3,336</b>  | <b>373</b>   |
| Mixed Tree Fruit         | --            | 64            | 4             | --            | --            | 10            | --            | --            | 1             | --           |

Table 2e. Certified organic acres in Washington by specific crop, 2008-2016: Small fruit and nuts.

| Small Fruit and Nuts            | Acres        |              |              |              |              |              |              |              |              |            |
|---------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|------------|
|                                 | 2008         | 2009         | 2010         | 2011         | 2012         | 2013         | 2014         | 2015         | 2016         | T2016      |
| <b>Berry</b>                    |              |              |              |              |              |              |              |              |              |            |
| Blackberry                      | 69           | 71           | 105          | 137          | 102          | 73           | 73           | 67           | 68           | 40         |
| Blueberry                       | 481          | 599          | 903          | 1,258        | 1,379        | 1,447        | 1,540        | 1,705        | 2,364        | 279        |
| Cranberry                       | --           | --           | --           | --           | --           | 10           | 10           | 10           | 20           | --         |
| Raspberry                       | 166          | 143          | 161          | 180          | 178          | 106          | 61           | 57           | 106          | --         |
| Strawberry                      | 21           | 38           | 35           | 44           | 87           | 69           | 96           | 97           | 109          | --         |
| Other & Unspecified             | 20           | 22           | 14           | 30           | 34           | 30           | 25           | 34           | 43           | 61         |
| <b>Total Berry</b>              | <b>757</b>   | <b>873</b>   | <b>1,218</b> | <b>1,649</b> | <b>1,780</b> | <b>1,735</b> | <b>1,805</b> | <b>1,970</b> | <b>2,710</b> | <b>380</b> |
| <b>Grape, Juice</b>             |              |              |              |              |              |              |              |              |              |            |
| Concord                         | --           | --           | --           | 1,467        | 1,467        | 1,468        | 1,379        | 1,223        | 1,121        | 45         |
| Niagara                         | --           | --           | --           | 49           | 53           | 53           | 53           | 68           | 68           | --         |
| <b>Total Juice Grape</b>        | <b>1,476</b> | <b>1,475</b> | <b>1,581</b> | <b>1,516</b> | <b>1,520</b> | <b>1,521</b> | <b>1,432</b> | <b>1,291</b> | <b>1,189</b> | <b>45</b>  |
| <b>Grape, Wine</b>              |              |              |              |              |              |              |              |              |              |            |
| Cabernet Sauvignon              | --           | --           | --           | 166          | 159          | 179          | 326          | 245          | 244          | 29         |
| Merlot                          | --           | --           | --           | 170          | 70           | 70           | 99           | 107          | 129          | --         |
| Syrah                           | --           | --           | --           | 65           | 55           | 107          | 122          | 112          | 131          | --         |
| Red, Other                      | --           | --           | --           | 51           | 52           | 46           | 37           | 36           | 37           | 4          |
| Riesling                        | --           | --           | --           | 358          | 229          | 257          | 134          | 209          | 124          | --         |
| Chardonnay                      | --           | --           | --           | 174          | 174          | 165          | 165          | 83           | 81           | --         |
| Gewurztraminer                  | --           | --           | --           | 18           | 18           | 18           | 18           | 16           | 16           | --         |
| White, Other                    | --           | --           | --           | 59           | 48           | 46           | 51           | 53           | 55           | 1          |
| Wine, Unspecified               | --           | --           | --           | 5            | 33           | 28           | 26           | 12           | 9            | --         |
| <b>Total Wine grape</b>         | <b>881</b>   | <b>969</b>   | <b>868</b>   | <b>1,066</b> | <b>838</b>   | <b>916</b>   | <b>978</b>   | <b>873</b>   | <b>826</b>   | <b>34</b>  |
| <b>Grape, Table &amp; Mixed</b> | <b>35</b>    | <b>18</b>    | <b>14</b>    | <b>13</b>    | <b>7</b>     | <b>10</b>    | <b>6</b>     | <b>9</b>     | <b>7</b>     | <b>2</b>   |
| <b>Total Grape</b>              | <b>2,392</b> | <b>2,462</b> | <b>2,463</b> | <b>2,599</b> | <b>2,365</b> | <b>2,447</b> | <b>2,416</b> | <b>2,173</b> | <b>2,022</b> | <b>81</b>  |
| <b>Other Fruit</b>              |              |              |              |              |              |              |              |              |              |            |
| Other                           | --           | --           | --           | --           | --           | --           | --           | --           | 9            | --         |
| Kiwi                            | 3            | 2            | 7            | 2            | 2            | 2            | 2            | 1            | 1            | --         |
| <b>Nut</b>                      |              |              |              |              |              |              |              |              |              |            |
| Almond                          | 6            | 5            | 5            | 9            | 12           | 12           | 4            | 4            | 4            | --         |
| Chestnut                        | 2            | 2            | 3            | 3            | 3            | 3            | 3            | 3            | 3            | --         |
| Filbert/Hazelnut                | 37           | 39           | 2            | 4            | 4            | 4            | 4            | 3            | 5            | --         |
| Walnut                          | 5            | 6            | 6            | 6            | 7            | 8            | 8            | 8            | 8            | --         |
| Other & Unspecified             | 3            | 3            | 3            | 4            | 3            | 3            | 3            | 3            | --           | --         |
| <b>Total Nut</b>                | <b>53</b>    | <b>55</b>    | <b>19</b>    | <b>26</b>    | <b>29</b>    | <b>30</b>    | <b>22</b>    | <b>21</b>    | <b>20</b>    | <b>--</b>  |

Table 2f. Certified organic acres in Washington by specific crop, 2008-2016: Herbs, other crops, and other land.

| Herbs, Other Crops & Other Land | Acres         |               |               |               |              |              |              |              |              |            |
|---------------------------------|---------------|---------------|---------------|---------------|--------------|--------------|--------------|--------------|--------------|------------|
|                                 | 2008          | 2009          | 2010          | 2011          | 2012         | 2013         | 2014         | 2015         | 2016         | T2016      |
| <b>Herbs</b>                    |               |               |               |               |              |              |              |              |              |            |
| Medicinal                       | 545           | 568           | 487           | 626           | 718          | 547          | 586          | 606          | 697          | --         |
| Culinary                        | 120           | 128           | 165           | 194           | 95           | 138          | 213          | 230          | 247          | --         |
| Mixed                           | 227           | 275           | 474           | 453           | 492          | 474          | 48           | 30           | 53           | --         |
| Mint                            | 199           | 182           | 193           | 258           | 240          | 214          | 250          | 299          | 306          | --         |
| Lavender                        | 46            | 37            | 39            | 34            | 40           | 34           | 36           | 38           | 39           | --         |
| <b>Total Herbs</b>              | <b>1,137</b>  | <b>1,190</b>  | <b>1,358</b>  | <b>1,565</b>  | <b>1,585</b> | <b>1,407</b> | <b>1,133</b> | <b>1,203</b> | <b>1,342</b> | <b>--</b>  |
| <b>Other Crops</b>              |               |               |               |               |              |              |              |              |              |            |
| Flowers, Cut or Edible          | 16            | 17            | 16            | 9             | 9            | 10           | 9            | 11           | 25           | --         |
| Cover Crop                      | 171           | 218           | 361           | 157           | 369          | 577          | 303          | 1,712        | 4            | --         |
| Hops                            | 54            | 65            | 66            | 58            | 156          | 203          | 190          | 210          | 214          | --         |
| Mushrooms*                      | 6             | 1             | <1            | <1            | <1           | 1            | 1            | 2            | 3            | --         |
| Seed Crops                      | 119           | 88            | 139           | 353           | 391          | 463          | 266          | 102          | 197          | --         |
| <i>Mixed/Other Vegetable</i>    | 30            | 46            | 20            | 5             | 23           | 23           | 25           | 27           | 14           | --         |
| <i>Beets</i>                    | 17            | 20            | 50            | 25            | 62           | 40           | 35           | 35           | 22           | --         |
| <i>Carrot</i>                   | 61            | --            | 60            | 158           | 138          | 120          | 64           | --           | 77           | --         |
| <i>Spinach</i>                  | 11            | 22            | 1             | --            | --           | 10           | 21           | --           | 1            | --         |
| <i>Onion</i>                    | --            | --            | --            | 3             | 1            | --           | 118          | --           | --           | --         |
| <i>Pumpkin</i>                  | --            | --            | --            | --            | --           | --           | --           | --           | 11           | --         |
| <i>Grass</i>                    | --            | --            | --            | 158           | 148          | 144          | --           | --           | 71           | --         |
| <i>Other Seed</i>               | --            | --            | 8             | 4             | 19           | 126          | 3            | 40           | 1            | --         |
| Greenhouse/Nursery              | 4             | 3             | 6             | 15.4          | 12           | 15           | 16           | 104          | 121          | --         |
| Mixed Horticulture              | 57            | 12            | 10            | 14            | 16           | 5            | 50           | 9            | 5            | --         |
| Wild craft                      | 360           | 362           | 375           | 375           | 403          | 360          | 282          | 90           | --           | --         |
| Other & Unspecified             | --            | 45            | 12            | --            | 80           | 375          | 75           | 93           | --           | --         |
| <b>Total Other Crops</b>        | <b>787</b>    | <b>811</b>    | <b>986</b>    | <b>982</b>    | <b>1,437</b> | <b>2,009</b> | <b>1,192</b> | <b>2,333</b> | <b>569</b>   | <b>--</b>  |
| <b>Other Land</b>               |               |               |               |               |              |              |              |              |              |            |
| Fallow/Summer Fallow            | 9,819         | 15,303        | 14,256        | 7,697         | 6,751        | 4,111        | 3,072        | 3,309        | 66           | --         |
| CRP, CREP land                  | --            | --            | 1,512         | --            | --           | --           | 200          | 200          | --           | --         |
| Timber/Woods                    | 925           | 931           | 864           | 524           | 478          | 510          | 737          | 768          | 780          | --         |
| Other & Unspecified             | 60            | 295           | 164           | 208           | 56           | 1            | 70           | 77           | 2            | --         |
| Undefined Acreage               | 4,848         | 3,141         | 2,868         | 2,259         | 1,522        | 922          | 674          | 143          | 8,292        | 677        |
| <b>Total Other Land</b>         | <b>15,652</b> | <b>19,670</b> | <b>19,664</b> | <b>10,688</b> | <b>8,807</b> | <b>5,544</b> | <b>4,753</b> | <b>4,497</b> | <b>9,139</b> | <b>677</b> |

\*Certified mushrooms are produced in WA but individual farm production areas can be small and not entered in database.

Table 3. Number of certified organic producer operations and area in Washington by county, 2016.

| County                  | No. of producers <sup>1</sup> |                |           | Area (acres) <sup>2</sup> |              | Co. Percent |             |
|-------------------------|-------------------------------|----------------|-----------|---------------------------|--------------|-------------|-------------|
|                         | C <sub>P</sub>                | C <sub>S</sub> | T Only    | C                         | T            | C Farms     | C Area      |
| Adams                   | 22                            | 5              | 1         | 4,933                     | 824          | 2.8         | 4.6         |
| Asotin                  | --                            | --             | --        | --                        | --           | --          | --          |
| Benton                  | 24                            | 1              | 2         | 6,819                     | 473          | 3.0         | 6.4         |
| Chelan                  | 45                            | 3              | 3         | 1,633                     | 372          | 5.6         | 1.5         |
| Columbia                | --                            | --             | --        | --                        | --           | --          | --          |
| Douglas                 | 31                            | --             | 4         | 2,492                     | 428          | 3.9         | 2.3         |
| Ferry                   | 1                             | --             | --        | 2                         | --           | 0.1         | 0.0         |
| Franklin                | 33                            | --             | 7         | 5,511                     | 1,845        | 4.1         | 5.2         |
| Garfield                | --                            | --             | --        | --                        | --           | --          | --          |
| Grant                   | 98                            | 6              | 7         | 31,255                    | 2,674        | 12.3        | 29.2        |
| Kittitas                | 3                             | 1              | --        | 1,098                     | --           | 0.4         | 1.0         |
| Klickitat               | 18                            | 1              | --        | 2,780                     | 24           | 2.3         | 2.6         |
| Lincoln                 | 3                             | 1              | --        | 1,360                     | 190          | 0.4         | 1.3         |
| Okanogan                | 70                            | --             | 6         | 4,431                     | 558          | 8.8         | 4.1         |
| Pend Oreille            | --                            | --             | --        | --                        | --           | --          | --          |
| Spokane                 | 9                             | --             | --        | 497                       | --           | 1.1         | 0.5         |
| Stevens                 | 25                            | --             | --        | 2,449                     | --           | 3.1         | 2.3         |
| Walla Walla             | 13                            | 1              | --        | 2,388                     | --           | 1.6         | 2.2         |
| Whitman                 | 4                             | --             | --        | 413                       | --           | 0.5         | 0.4         |
| Yakima                  | 90                            | 2              | 3         | 5,460                     | 344          | 11.3        | 5.1         |
| <b>East of Cascades</b> | <b>489</b>                    | <b>(21)</b>    | <b>33</b> | <b>73,521</b>             | <b>7,732</b> | <b>61.4</b> | <b>68.7</b> |
| Clallam                 | 13                            | --             | --        | 1,423                     | --           | 1.6         | 1.3         |
| Clark                   | 13                            | --             | --        | 381                       | --           | 1.6         | 0.4         |
| Cowlitz                 | --                            | --             | --        | --                        | --           | --          | --          |
| Grays Harbor            | 5                             | 2              | --        | 1,298                     | --           | 0.6         | 1.2         |
| Island                  | 11                            | --             | --        | 380                       | --           | 1.4         | 0.4         |
| Jefferson               | 14                            | 1              | --        | 1,385                     | --           | 1.8         | 1.3         |
| King                    | 34                            | 2              | --        | 3,567                     | 21           | 4.3         | 3.3         |
| Kitsap                  | 8                             | --             | --        | 113                       | --           | 1.0         | 0.1         |
| Lewis                   | 33                            | 2              | --        | 6,336                     | 309          | 4.1         | 5.9         |
| Mason                   | 2                             | --             | --        | 39                        | --           | 0.3         | 0.0         |
| Pacific                 | 4                             | 1              | --        | 351                       | --           | 0.5         | 0.3         |
| Pierce                  | 18                            | 1              | --        | 1,492                     | 5            | 2.3         | 1.4         |
| San Juan                | 8                             | --             | --        | 323                       | 9            | 1.0         | 0.3         |
| Skagit                  | 55                            | 2              | 1         | 7,844                     | 68           | 6.9         | 7.3         |
| Skamania                | 3                             | --             | --        | 103                       | --           | 0.4         | 0.1         |
| Snohomish               | 23                            | 1              | --        | 2,255                     | --           | 2.9         | 2.1         |
| Thurston                | 26                            | 1              | --        | 2,840                     | --           | 3.3         | 2.7         |
| Wahkiakum               | 2                             | --             | --        | 674                       | --           | 0.3         | 0.6         |
| Whatcom                 | 36                            | --             | --        | 2,678                     | 9            | 4.5         | 2.5         |
| <b>West of Cascades</b> | <b>308</b>                    | <b>(13)</b>    | <b>1</b>  | <b>33,482</b>             | <b>421</b>   | <b>38.6</b> | <b>31.3</b> |
| <b>State Total</b>      | <b>797</b>                    | <b>(34)</b>    | <b>34</b> | <b>107,003</b>            | <b>8,153</b> | <b>100</b>  | <b>100</b>  |

<sup>1</sup>C = Certified organic and T= Transition to organic. Values were based on total site area and did not included double crop acres. C farms had certified organic acres but could also include transition land. T only farms had land in transition to organic but no certified organic acres. "C<sub>P</sub>" indicates a producer's primary county. "C<sub>S</sub>" indicates the number of producers that have certified land in a given second or multiple counties but are already counted in another county as their primary location (C<sub>P</sub>).

<sup>2</sup>Acres based on site area (did not include double crop acres).

Table 4. Number of certified organic producer operations in Washington by county: 2008-2016.

| County                  | Number of Certified Producers |            |            |            |            |            |            |            |                         |
|-------------------------|-------------------------------|------------|------------|------------|------------|------------|------------|------------|-------------------------|
|                         | 2008                          | 2009       | 2010       | 2011       | 2012       | 2013       | 2014       | 2015       | P/(S) 2016 <sup>1</sup> |
| Adams                   | 7                             | 10         | 10         | 9          | 9          | 12         | 10         | 10         | 22 (5)                  |
| Asotin                  | 1                             | 1          | 1          | 1          | 1          | 1          | --         | --         | -- --                   |
| Benton                  | 27                            | 28         | 30         | 27         | 26         | 25         | 27         | 26         | 24 (1)                  |
| Chelan                  | 49                            | 51         | 50         | 51         | 44         | 40         | 42         | 44         | 45 (3)                  |
| Columbia                | --                            | --         | --         | --         | --         | --         | --         | --         | -- --                   |
| Douglas                 | 27                            | 29         | 28         | 28         | 28         | 28         | 29         | 29         | 31 --                   |
| Ferry                   | --                            | --         | --         | 1          | 1          | 2          | 1          | 1          | 1 --                    |
| Franklin                | 22                            | 31         | 32         | 31         | 31         | 29         | 29         | 31         | 33 --                   |
| Garfield                | 1                             | 1          | --         | --         | --         | --         | --         | --         | -- --                   |
| Grant                   | 64                            | 88         | 91         | 87         | 87         | 83         | 85         | 90         | 98 (6)                  |
| Kittitas                | 4                             | 4          | 3          | 5          | 6          | 4          | 3          | 3          | 3 (1)                   |
| Klickitat               | 13                            | 17         | 18         | 19         | 21         | 17         | 17         | 17         | 18 (1)                  |
| Lincoln                 | 4                             | 6          | 5          | 4          | 4          | 3          | 3          | 3          | 3 (1)                   |
| Okanogan                | 60                            | 61         | 58         | 57         | 61         | 67         | 63         | 66         | 70 --                   |
| Pend Oreille            | --                            | --         | --         | --         | --         | --         | --         | --         | -- --                   |
| Spokane                 | 4                             | 5          | 5          | 10         | 12         | 10         | 8          | 10         | 9 --                    |
| Stevens                 | 23                            | 23         | 21         | 21         | 21         | 22         | 22         | 24         | 25 --                   |
| Walla Walla             | 13                            | 9          | 9          | 12         | 13         | 13         | 13         | 12         | 13 (1)                  |
| Whitman                 | 7                             | 8          | 7          | 6          | 5          | 4          | 3          | 3          | 4 --                    |
| Yakima                  | 108                           | 109        | 103        | 94         | 94         | 91         | 92         | 88         | 90 (2)                  |
| <b>East of Cascades</b> | <b>434</b>                    | <b>481</b> | <b>471</b> | <b>463</b> | <b>464</b> | <b>451</b> | <b>447</b> | <b>457</b> | <b>489 (21)</b>         |
| Clallam                 | 11                            | 11         | 11         | 12         | 13         | 13         | 12         | 12         | 13 --                   |
| Clark                   | 14                            | 15         | 15         | 14         | 15         | 15         | 15         | 14         | 13 --                   |
| Cowlitz                 | 1                             | 2          | 2          | 2          | 2          | 1          | 1          | --         | -- --                   |
| Grays Harbor            | 6                             | 6          | 6          | 7          | 7          | 6          | 5          | 5          | 5 (2)                   |
| Island                  | 7                             | 7          | 9          | 11         | 9          | 8          | 9          | 9          | 11 --                   |
| Jefferson               | 11                            | 12         | 13         | 13         | 11         | 10         | 10         | 13         | 14 (1)                  |
| King                    | 24                            | 26         | 24         | 22         | 26         | 23         | 22         | 24         | 34 (2)                  |
| Kitsap                  | 6                             | 7          | 7          | 7          | 7          | 7          | 7          | 6          | 8 --                    |
| Lewis                   | 26                            | 25         | 25         | 25         | 26         | 26         | 25         | 30         | 33 (2)                  |
| Mason                   | 1                             | 2          | 2          | 3          | 3          | 3          | 2          | 2          | 2 --                    |
| Pacific                 | 4                             | 4          | 1          | 1          | 1          | 1          | 1          | 1          | 4 (1)                   |
| Pierce                  | 8                             | 9          | 10         | 11         | 13         | 15         | 16         | 15         | 18 (1)                  |
| San Juan                | 10                            | 11         | 11         | 10         | 11         | 8          | 6          | 8          | 8 --                    |
| Skagit                  | 41                            | 43         | 44         | 44         | 43         | 43         | 40         | 45         | 55 (2)                  |
| Skamania                | 2                             | 5          | 2          | 2          | 2          | 3          | 2          | 2          | 3 --                    |
| Snohomish               | 19                            | 21         | 21         | 21         | 17         | 20         | 23         | 18         | 23 (1)                  |
| Thurston                | 25                            | 23         | 24         | 25         | 25         | 23         | 22         | 27         | 26 (1)                  |
| Wahkiakum               | 3                             | 3          | 3          | 2          | 3          | 3          | 3          | 2          | 2 --                    |
| Whatcom                 | 36                            | 40         | 34         | 34         | 33         | 33         | 32         | 34         | 36 --                   |
| <b>West of Cascades</b> | <b>255</b>                    | <b>272</b> | <b>264</b> | <b>266</b> | <b>267</b> | <b>261</b> | <b>253</b> | <b>267</b> | <b>308 (13)</b>         |
| <b>State Total</b>      | <b>689</b>                    | <b>753</b> | <b>735</b> | <b>729</b> | <b>731</b> | <b>712</b> | <b>700</b> | <b>724</b> | <b>797 (34)</b>         |

Combined certifier data. <sup>1</sup>“P” indicates a certified producer’s primary county. “S” indicates the number of producers that have additional certified land in a given second or multiple counties and are already counted in their primary county (P).

Table 5. Certified organic area in Washington by county: 2008-2016.

| County                  | Area (acres)  |                |                |               |               |               |               |               |                |               |
|-------------------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|
|                         | 2008          | 2009           | 2010           | 2011          | 2012          | 2013          | 2014          | 2015          | 2016           | ±15-16        |
| Adams                   | 3,145         | 4,217          | 5,914          | 2,506         | 2,483         | 3,258         | 2,688         | 2,745         | 4,933          | 2,188         |
| Asotin                  | 800           | 800            | 800            | 800           | 800           | 800           | --            | --            | --             | --            |
| Benton                  | 13,121        | 13,033         | 9,202          | 8,699         | 7,805         | 5,975         | 6,385         | 6,868         | 6,819          | -49           |
| Chelan                  | 1,992         | 2,504          | 2,012          | 2,207         | 1,763         | 1,639         | 1,687         | 1,715         | 1,633          | -82           |
| Columbia                | --            | --             | --             | --            | --            | --            | --            | --            | --             | --            |
| Douglas                 | 5,002         | 5,688          | 4,202          | 2,200         | 2,368         | 2,289         | 2,238         | 2,056         | 2,492          | 436           |
| Ferry                   | --            | --             | --             | 4             | 4             | 5             | 2             | 2             | 2              | 0             |
| Franklin                | 3,030         | 3,749          | 3,573          | 3,320         | 3,247         | 3,045         | 3,240         | 3,593         | 5,511          | 1,918         |
| Garfield                | 328           | 328            | --             | --            | --            | --            | --            | --            | --             | --            |
| Grant                   | 18,519        | 20,859         | 23,796         | 23,360        | 21,996        | 19,509        | 21,677        | 24,767        | 31,255         | 6,488         |
| Kittitas                | 124           | 124            | 133            | 219           | 199           | 1,012         | 1,013         | 975           | 1,098          | 123           |
| Klickitat               | 2,390         | 3,032          | 3,359          | 4,071         | 3,419         | 3,052         | 2,524         | 2,799         | 2,780          | -19           |
| Lincoln                 | 1,079         | 7,876          | 7,748          | 1,961         | 2,433         | 1,588         | 1,652         | 1,387         | 1,360          | -27           |
| Okanogan                | 4,396         | 4,000          | 4,055          | 3,926         | 3,710         | 3,827         | 3,823         | 4,103         | 4,431          | 328           |
| Pend Oreille            | --            | --             | --             | --            | --            | --            | --            | --            | --             | --            |
| Spokane                 | 95            | 95             | 87             | 85            | 975           | 932           | 921           | 1,204         | 497            | -707          |
| Stevens                 | 2,252         | 2,225          | 2,176          | 2,117         | 2,103         | 2,559         | 2,569         | 2,416         | 2,449          | 33            |
| Walla Walla             | 1,295         | 1,649          | 1,793          | 2,328         | 2,240         | 2,278         | 2,243         | 2,120         | 2,388          | 268           |
| Whitman                 | 153           | 165            | 75             | 64            | 64            | 59            | 46            | 116           | 413            | 297           |
| Yakima                  | 8,277         | 8,012          | 6,263          | 5,419         | 5,663         | 5,093         | 4,922         | 5,134         | 5,460          | 326           |
| <b>East of Cascades</b> | <b>65,999</b> | <b>78,356</b>  | <b>75,188</b>  | <b>63,286</b> | <b>61,272</b> | <b>56,920</b> | <b>57,630</b> | <b>62,000</b> | <b>73,521</b>  | <b>11,521</b> |
| Clallam                 | 420           | 420            | 458            | 455           | 448           | 448           | 779           | 748           | 1,423          | 675           |
| Clark                   | 503           | 455            | 651            | 771           | 498           | 560           | 441           | 384           | 381            | -3            |
| Cowlitz                 | 20            | 20             | 20             | 20            | 20            | 1             | 30            | --            | --             | --            |
| Grays Harbor            | 1,300         | 1,263          | 1,417          | 1,316         | 1,465         | 1,390         | 673           | 677           | 1,298          | 621           |
| Island                  | 279           | 275            | 288            | 291           | 294           | 258           | 284           | 342           | 380            | 38            |
| Jefferson               | 939           | 961            | 824            | 810           | 756           | 819           | 876           | 841           | 1,385          | 544           |
| King                    | 3,040         | 3,117          | 2,940          | 2,959         | 3,321         | 3,306         | 3,062         | 3,456         | 3,567          | 111           |
| Kitsap                  | 109           | 113            | 111            | 111           | 127           | 127           | 118           | 112           | 113            | 1             |
| Lewis                   | 4,777         | 4,357          | 4,585          | 4,271         | 4,233         | 4,362         | 4,213         | 5,405         | 6,336          | 931           |
| Mason                   | 17            | 21             | 21             | 22            | 44            | 44            | 40            | 39            | 39             | --            |
| Pacific                 | 500           | 500            | 10             | 10            | 10            | 10            | 10            | 10            | 351            | 341           |
| Pierce                  | 885           | 899            | 1,111          | 1,148         | 1,539         | 1,738         | 1,726         | 1,379         | 1,492          | 113           |
| San Juan                | 253           | 421            | 396            | 371           | 304           | 192           | 142           | 178           | 323            | 145           |
| Skagit                  | 4,825         | 5,820          | 5,579          | 5,627         | 6,015         | 6,107         | 6,135         | 6,737         | 7,844          | 1,107         |
| Skamania                | 59            | 121            | 79             | 80            | 68            | 98            | 94            | 100           | 103            | 3             |
| Snohomish               | 2,122         | 1,417          | 755            | 1,235         | 1,102         | 1,156         | 1,243         | 1,164         | 2,255          | 1,091         |
| Thurston                | 2,818         | 2,367          | 2,451          | 2,694         | 2,553         | 2,658         | 1,990         | 2,287         | 2,840          | 553           |
| Wahkiakum               | 651           | 738            | 737            | 671           | 745           | 745           | 768           | 674           | 674            | --            |
| Whatcom                 | 3,042         | 3,321          | 2,932          | 3,038         | 3,258         | 3,929         | 4,594         | 4,555         | 2,678          | -1,877        |
| <b>West of Cascades</b> | <b>26,556</b> | <b>26,606</b>  | <b>25,365</b>  | <b>25,900</b> | <b>26,800</b> | <b>27,948</b> | <b>27,218</b> | <b>29,088</b> | <b>33,482</b>  | <b>4,394</b>  |
| <b>State Total</b>      | <b>92,555</b> | <b>104,962</b> | <b>100,553</b> | <b>89,186</b> | <b>88,072</b> | <b>84,868</b> | <b>84,848</b> | <b>91,088</b> | <b>107,003</b> | <b>15,915</b> |

Combined certifier data. Values were based on total site area and do not include identified double crop acres.

Table 6a. Estimated gross farmgate sales of certified organic crop and animal products: Eastern Washington (WSDA and OTCO).

| Eastern Washington Farmgate Value (\$) |                    |                    |                    |                    |                    |                    |                    |                    |            |           |
|--|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|------------|-----------|
| County                                 | 2009               | 2010               | 2011               | 2012               | 2013               | 2014               | 2015               | 2016               | % Sales    | %± 15-16  |
| Adams                                  | 4,712,747          | 4,450,809          | 6,075,215          | 13,039,630         | 13,313,041         | 12,237,781         | 32,515,731         | 50,926,323         | 7.8        | 57        |
| Asotin                                 | (nr)               | (nr)               | (nr)               | (nr)               | (nr)               | (nr)               | (nr)               | (nr)               | --         | --        |
| Benton                                 | 21,900,016         | 22,011,629         | 25,818,613         | 36,513,778         | 44,566,971         | 51,934,544         | 54,169,833         | 65,915,532         | 10.1       | 22        |
| Chelan, Douglas                        | 23,932,300         | 24,111,199         | 27,518,678         | 31,818,755         | 41,293,785         | 43,239,154         | 61,745,595         | 49,046,353         | 7.5        | -21       |
| Columbia                               | (nr)               | (nr)               | (nr)               | (nr)               | (nr)               | (nr)               | (nr)               | (nr)               | --         | --        |
| Franklin                               | 10,812,398         | 13,188,205         | 18,033,263         | 23,394,676         | 24,047,190         | 34,933,381         | 39,615,754         | 45,822,451         | 7          | 16        |
| Garfield                               | (nr)               | (nr)               | (nr)               | (nr)               | (nr)               | (nr)               | (nr)               | (nr)               | --         | --        |
| Grant                                  | 52,924,663         | 64,005,943         | 87,771,761         | 106,772,592        | 144,063,298        | 180,029,662        | 166,638,444        | 194,464,866        | 29.8       | 17        |
| Kittitas                               | 41,584             | 169,558            | 83,265             | 95,997             | 172,101            | 171,147            | 40,000             | 95,828             | 0.01       | 140       |
| Klickitat                              | 5,792,017          | 6,645,054          | 8,411,142          | 6,475,147          | 5,876,317          | 9,038,215          | 9,724,736          | 11,469,159         | 1.7        | 18        |
| Lincoln                                | 297,440            | 367,120            | 446,298            | 175,300            | 253,142            | 365,647            | 926,934            | (nr)               | --         | --        |
| Okanogan                               | 12,078,319         | 10,664,717         | 14,209,137         | 17,897,348         | 23,323,109         | 25,940,190         | 50,130,456         | 50,435,371         | 7.7        | 1         |
| Pend Oreille                           | (nr)               | (nr)               | (nr)               | (nr)               | (nr)               | (nr)               | (nr)               | (nr)               | --         | --        |
| Spokane                                | 72,306             | 126,430            | 157,213            | 176,592            | 162,360            | 262,662            | 178,107            | 268,009            | 0.04       | 50        |
| Stevens                                | 390,822            | 468,898            | 503,562            | 644,607            | 726,703            | 1,064,080          | 1,043,014          | 1,098,371          | 0.2        | 5         |
| Walla Walla                            | 10,483,575         | 20,011,407         | 22,049,205         | 27,734,332         | 35,317,450         | 33,439,506         | 46,465,975         | 53,761,052         | 8.2        | 16        |
| Whitman                                | 70,512             | 100,056            | 111,032            | 99,039             | 108,186            | 95,980             | 192,197            | 98,974             | 0.02       | -49       |
| Yakima                                 | 21,119,600         | 19,051,245         | 23,433,582         | 31,226,646         | 40,936,693         | 41,310,523         | 55,906,334         | 51,774,244         | 7.9        | -7        |
| East of Cascades                       | 164,634,092        | 185,408,918        | 234,625,546        | 296,070,971        | 374,178,890        | 434,081,017        | 519,300,933        | 575,290,731        | 88         | 11        |
| West of Cascades                       | 46,070,879         | 52,305,399         | 49,827,602         | 59,469,172         | 61,327,505         | 62,385,889         | 72,818,671         | 77,044,573         | 12         | 6         |
| <b>State Total</b>                     | <b>210,704,971</b> | <b>237,714,317</b> | <b>284,453,148</b> | <b>355,540,144</b> | <b>435,506,395</b> | <b>496,466,906</b> | <b>592,119,604</b> | <b>652,335,304</b> | <b>100</b> | <b>10</b> |

Percentage of sales is based on most recent year. An (nr) is used to indicate that either: no sales were reported in that county; or no value was reported in table to protect confidentiality. Values may not include income from producers who may report all sales as processors.

Table 6b. Estimated gross farmgate sales of certified organic crop and animal products: Western Washington (WSDA and OTCO).

| County           | Western Washington Farmgate Value (\$) |             |             |             |             |             |             |             |         |           |
|------------------|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---------|-----------|
|                  | 2009                                   | 2010        | 2011        | 2012        | 2013        | 2014        | 2015        | 2016        | % Sales | % ± 15-16 |
| Clallam          | 1,233,943                              | 1,299,608   | 1,560,370   | 1,314,326   | 1,337,777   | 1,414,615   | 1,403,730   | 1,629,633   | 0.2     | 16        |
| Clark            | 1,632,818                              | 1,541,910   | 1,831,544   | 1,504,563   | 1,231,430   | 1,001,903   | 1,410,217   | 1,326,056   | 0.2     | -6        |
| Cowlitz          | (nr)                                   | (nr)        | (nr)        | (nr)        | (nr)        | (nr)        | (nr)        | (nr)        | --      | --        |
| Grays Harbor     | 1,806,137                              | 1,402,045   | 1,327,370   | 1,404,447   | 967,374     | 948,191     | 1,604,076   | 1,912,584   | --      | --        |
| Island           | 112,993                                | 247,466     | 189,899     | 236,847     | 167,446     | 295,906     | 283,042     | 392,970     | 0.1     | 39        |
| Jefferson        | 1,125,011                              | 1,163,653   | 1,370,432   | 1,530,297   | 1,714,805   | 1,943,652   | 3,780,520   | 2,315,161   | 0.3     | -39       |
| King             | 5,412,335                              | 7,631,333   | 8,871,133   | 6,970,329   | 6,392,332   | 5,349,739   | 6,273,249   | 9,363,848   | 1.4     | 49        |
| Kitsap           | 262,028                                | 332,138     | 362,990     | 365,997     | 503,220     | 643,018     | 725,065     | 810,057     | 0.1     | 12        |
| Lewis            | 5,613,327                              | 5,787,645   | 6,082,515   | 6,781,391   | 7,259,315   | 8,899,534   | 9,813,156   | 10,851,286  | 1.7     | 11        |
| Mason            | (nr)                                   | 332,324     | 3,930,876   | 5,143,980   | (nr)        | (nr)        | (nr)        | (nr)        | --      | --        |
| Pacific          | (nr)                                   | (nr)        | (nr)        | (nr)        | (nr)        | (nr)        | (nr)        | (nr)        | --      | --        |
| Pierce           | 1,912,661                              | 1,502,865   | 1,983,393   | 2,307,708   | 2,303,301   | 2,426,558   | 2,404,978   | 2,915,454   | 0.5     | 21        |
| San Juan         | 111,021                                | 90,628      | 141,693     | 64,084      | 68,177      | 73,491      | 46,296      | 86,954      | .01     | 88        |
| Skagit           | 12,011,836                             | 13,177,534  | 11,520,913  | 14,238,853  | 16,080,706  | 16,749,949  | 20,929,398  | 22,616,081  | 3.4     | 8         |
| Skamania         | (nr)                                   | (nr)        | (nr)        | (nr)        | (nr)        | (nr)        | (nr)        | (nr)        | --      | --        |
| Snohomish        | 2,227,662                              | 2,051,332   | 2,274,943   | 3,102,352   | 3,114,504   | 3,239,818   | 3,021,221   | 5,871,890   | 0.9     | 94        |
| Thurston         | 6,353,482                              | 6,281,221   | 2,334,335   | 7,288,107   | 3,341,268   | 9,314,688   | 9,319,670   | 9,735,826   | 1.5     | 4         |
| Wahkiakum        | 694,973                                | (nr)        | 760,876     | (825,972)   | (875,553)   | (904,200)   | (nr)        | (nr)        | --      | --        |
| Whatcom          | 5,288,494                              | 5,218,145   | 5,047,268   | 6,048,047   | 7,516,742   | 8,593,461   | 10,644,037  | 5,466,540   | 0.8     | -49       |
|                  |  |             |             |             |             |             |             |             |         |           |
|                  | 2009                                   | 2010        | 2011        | 2012        | 2013        | 2014        | 2015        | 2016        | %       | %± 15-16  |
| East of Cascades | 164,634,092                            | 185,408,918 | 234,625,546 | 296,070,971 | 374,178,890 | 434,081,017 | 519,300,933 | 575,290,731 | 88      | 11        |
| West of Cascades | 46,070,879                             | 52,305,399  | 49,827,602  | 59,469,172  | 61,327,505  | 62,385,889  | 72,818,671  | 77,044,573  | 12      | 6         |
| State Total      | 210,704,971                            | 237,714,317 | 284,453,148 | 355,540,144 | 435,506,395 | 496,466,906 | 592,119,604 | 652,335,304 | 100     | 10        |

Percentage of sales is based on most recent year. An (nr) is used to indicate that either: no sales were reported in that county; or no value was reported in table to protect confidentiality. Values may not include income from producers who may report all sales as processors.



Table 7. Certified organic dairy producer and livestock numbers, 2006-2016.

|  | Number certified |        |        |        |        |        |        |        |
|--|------------------|--------|--------|--------|--------|--------|--------|--------|
|  | 2006             | 2008   | 2010   | 2012   | 2013   | 2014   | 2015   | 2016   |
| Organic dairies  | 23               | 46     | 34     | 34     | 36     | 38     | 39     | 45     |
| Milkers and dry cows   | 2,970            | 9,022  | 5,898  | 6,311  | 7,095  | 7,505  | 8,290  | 9,012  |
| Calves and replacement heifers   | 2,180            | 7,022  | 4,154  | 4,922  | 4,302  | 5,514  | 5,308  | 6,033  |
| Total  | 5,150            | 16,044 | 10,052 | 11,233 | 11,397 | 13,091 | 13,598 | 15,045 |
| In addition to 45 cow dairies, 1 goat dairy was certified organic in 2016. |                  |        |        |        |        |        |        |        |

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### References

- USDA-ERS. 2013. *Organic Production Data Sets*. Updated September 27 2013.  
<http://www.ers.usda.gov/data-products/organic-production.aspx#.UVsiL1eU8IQ>
- USDA-NASS. 2016. *2015 Certified Organic Survey*.  
<http://usda.mannlib.cornell.edu/usda/current/OrganicProduction/OrganicProduction-09-15-2016.pdf>
- USDA-NASS. 2015. *2014 Organic Production Survey*.  
[http://www.agcensus.usda.gov/Publications/2012/Online\\_Resources/Organics/](http://www.agcensus.usda.gov/Publications/2012/Online_Resources/Organics/)
- USDA-NASS. 2013. *2011 Certified Organic Production Survey*.  
<http://usda01.library.cornell.edu/usda/current/OrganicProduction/OrganicProduction-10-04-2012.pdf>
- USDA-NASS. 2010. *2008 Organic Production Survey*. Updated July 2010.  
[http://www.agcensus.usda.gov/Publications/2007/Online\\_Highlights/Organics/index.php](http://www.agcensus.usda.gov/Publications/2007/Online_Highlights/Organics/index.php)