

Washington Tree Fruit Acreage Report 2017

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Table of Contents

Overview

Fruit Area Map.....	5
Notes about the data.....	6-9
Tree fruit acres by variety, historical	10-12
Acres, Trees, Trees per Acre, by County	13
Acres, Trees, Trees per Acre, by Area.....	14

Apples

Acres and Trees by Area and Variety	15
Trees per Acre by Area and Variety	16
Acres and Trees by Age and Variety	16-17
Trees per Acre by Age and Variety	17
Acres, Trees, Trees/Ac by Age and Area.....	18
Bearing, Non-bearing Trees by Variety	19
Bearing, Non-bearing Trees by Age	19
Bearing, Non-bearing Trees by Area	19

Sweet Cherries

Acres and Trees by Area and Variety	20
Trees per Acre by Area and Variety	21
Acres and Trees by Age and Variety	21-22
Trees per Acre by Age and Variety	22
Acres, Trees, Trees/Ac by Age and Area.....	23
Bearing, Non-bearing Trees by Variety	24
Bearing, Non-bearing Trees by Age	24
Bearing, Non-bearing Trees by Area	24

All Pears

Acres and Trees by Area and Variety	25
Trees per Acre by Area and Variety	26
Acres and Trees by Age and Variety	26-27
Trees per Acre by Age and Variety	27
Acres, Trees, Trees/Ac by Age and Area.....	28-29
Bearing, Non-bearing Trees by Variety	30
Bearing, Non-bearing Trees by Age	30
Bearing, Non-bearing Trees by Area	31

Apricots

Acres, Trees, Trees/Acre, and Non-bearing Trees by Variety	32
Acres, Trees, Trees/Acre and Non-bearing Trees by Age	32

Nectarines

Acres, Trees, Trees/Acre, and Non-bearing Trees by Variety	33
Acres, Trees, Trees/Acre and Non-bearing Trees by Age	33

Peaches

Acres, Trees, Trees/Acre, and Non-bearing Trees by Variety 34
Acres, Trees, Trees/Acre and Non-bearing Trees by Age..... 34

Prunes and Plums

Acres, Trees, Trees/Acre, and Non-bearing Trees by Variety 35
Acres, Trees, Trees/Acre and Non-bearing Trees by Age..... 35

Tart Cherries

Acres, Trees, Trees/Acre, and Non-bearing Trees by Variety 35
Acres, Trees, Trees/Acre and Non-bearing Trees by Age..... 35

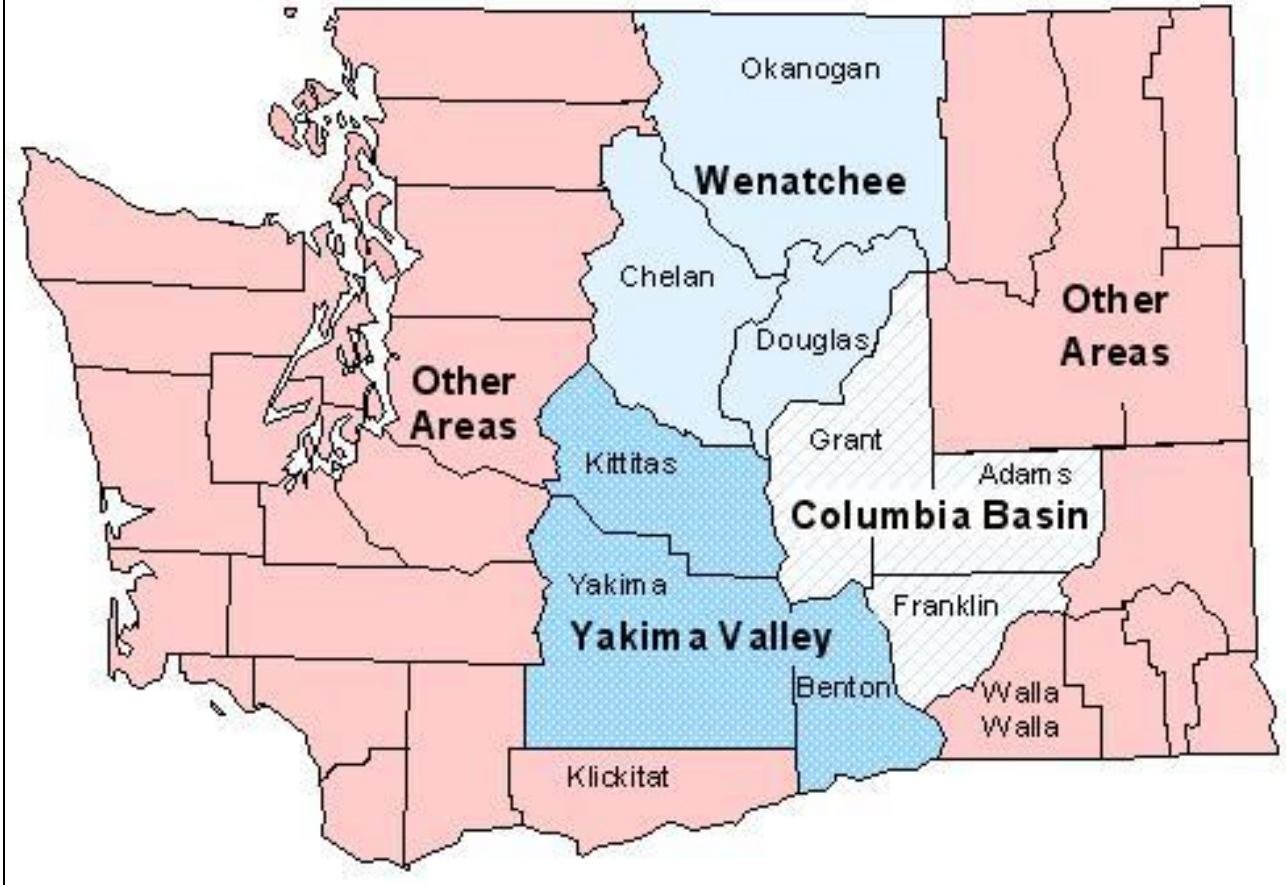
Organic and Transition

Tree Fruit Organic and Transition Acres by Area..... 36
Apples by Area and Variety 36
Sweet Cherries by Area and Variety 36
Pears by Variety 37
Nectarines, Peaches, and Apricots 37

Reference

Selected Charts and Graphs.....38-43
Data Collection Materials.....44-51

Fruit Reporting Areas of Washington State



Some Notes About These Data

It is a large and challenging task to compile information detailed in this publication. This project would not have been possible without the assistance and support of many people and organizations. We would like to thank all of the fruit organizations in the state that supported the survey work and helped to publicize the importance of the work. Thanks go to B.J. Thurlby, Washington State Fruit Commission, Jon Devaney, Washington State Tree Fruit Association, Vicky Scharlau, Washington Winegrowers, and Cayenne Chonette, Washington Wine Commission. Special thanks go to Perry Beale for his assistance and cooperation to use the Washington State Department of Agriculture's geographic information system (GIS) layer to facilitate portions of this project.

Most importantly we would like to thank the tree fruit and grape growers who took the time from their busy schedules to provide the data compiled in this publication. This project would not have been possible without their cooperation.

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

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

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

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

A small number of operations were able to provide only partial block level information. In these cases, the averages from the reported data were used to complete the block level data. For example, a partially responding ten acre block of Cameo apples planted between 1996 and 2000 would have been given the trees per acre average from responding blocks of the same characteristics to estimate the total number of trees for the block.

Block level data from responding orchards represented approximately 42 percent of the published totals. The amount varied somewhat by type of fruit. Several steps were employed to produce the most accurate adjustments between the reported and published totals. Acreage reported on prior NASS surveys (control data) was utilized to estimate acreage of several influential non-responding orchards by type of fruit.

The adjusted survey data totals were analyzed by county for reasonableness. In addition to the adjusted survey totals described above, data from the 2012 Census of Agriculture, the previous fruit tree acreage survey, and orchard data from WSDA's GIS layer were also considered in setting total fruit acreage "targets" by county and region. Targets were also established for individual fruit crops at the state level.

Once the targets were set, the adjustments were carried through to each individual responding block of data. The same adjustment process utilized in the Census of Agriculture, known as calibration, where the weights of responding blocks of fruit are adjusted within tolerance ranges of the targets was used. Before adjustment, responding fruit blocks had weights of one; after adjustment the block could receive a weight of greater than one, with a maximum weight of six. This means, for example, that a reported ten acre block of Bing cherries containing 1,500 trees might have received a weight of 2.0. After weighting, the block of fruit would have contributed 20 acres and 3,000 trees to the published totals.

For published items containing few responses and relatively small totals, the adjustments for coverage and nonresponse may cause some distortions. Also, if a dominant producer of a relatively rare variety did not respond, the published total may under-represent the true total.

The data in this publication are shown to the nearest acre and tree. Publishing to the nearest acre and tree facilitates publishing the cross-tabulations by area, variety, and year planted. Acres were reported to the tenth of an acre. Due to rounding, acreage by varieties may not sum to the totals. Although every effort has been made to provide high quality data, published items should be considered to approximate the true values. For some items, there were no reports for a breakout or insufficient reports to publish an item without disclosing individual grower data. In this publication, the same general procedure as the Census of Agriculture was employed to protect respondent's confidentiality. In some cases, additional items are required to be suppressed to prevent disclosure of an individual's data. For example, if Ambrosia apples in the Wenatchee area are not able to be published, at least one other area would need to be suppressed or one could infer the Wenatchee total by subtracting the published areas from the variety total. This process occasionally leads to items with a sizeable acreage or number of reports to be suppressed. This type of suppression is called a complementary suppression. Data suppressions and zero reported data are indicated with a "--" in the publication.

In the 2017 survey, bearing trees and non-bearing trees were collected for each block. This allowed orchardists to report some young non-bearing trees in mature blocks. This fact should be kept in mind when reviewing non-bearing trees by year planted. Recent interplantings in mature blocks are reflected in the data by the year planted of the majority of the block.

Respondents were asked to provide the year the trees were planted or topworked. During review of these data, some reports of plantings were reported as occurring prior to the commercial release of the varieties. Upon further review, these were typically situations where trees had been more recently topworked but the orchardist had reported the year the trees were originally planted. The data were corrected when this situation was identified. There are likely some additional blocks of fruit that were reported by year originally planted but have been more recently topworked.

The 2017 survey omitted questions on rootstock (dwarf, semi-dwarf, and standard) for apples, sweet cherries, and pears. Through input from the industry, it was determined that the rootstock questions in prior surveys were confusing and often unreliable.

As with the 2011 survey, respondents were asked to provide the number of certified organic acres as well as transition to organic acres for each block of fruit. These results are summarized by variety and growing region

Data included in “other varieties” include varieties with minimal acreage, unknown varieties, or varieties not published to avoid disclosure of individual operations. Almost certainly, some acres of the published varieties are included in this other category when the respondent did not designate the variety. The varieties of apples reported but not published include: Akane, Breeze, Cosmic Crisp, Crimson Gold, Ginger Gold, Golden Supreme, Gravenstein, Jonathan, Juici, Kiku, Macoun, Minneiska, Mutsu, Newtown, North Spy, Pinata, Pinova, Rome, Smitten, Sport, Sweetie, Winesap, and Winter Banana.

The varieties of sweet cherries reported but not published include: Black Tartatian, Index, Kiona, Regina, Royal Ann, Selah, Sonata, and Staccato.

The varieties of pears reported but not published include: Kalle, Red Clapp, Red Sensation, and Seckel.

The varieties of apricots reported but not published include: Goldstrike, Moorpark, Patterson, Puget Gold, and Tomcot.

The varieties of nectarines reported but not published include: Fantasia, Fire Sweet, Firebrite, HoneyKist, Spring Brite, Supreme Red, and Washington Pride.

The varieties of peaches reported but not published include: Angelus, Blazingstar, Donut, Glowingstar, June Pride, O’Henry, PF series, Roza, and Sierra Lady.

The varieties of prunes and plums reported but not published include: Duarte, Elephant Heart, Friar, President, Santa Rosa, Shiro, and Stanley.

A small acreage of Balaton tart cherries were reported in the survey and were collapsed into the Montmorency variety total.

Pluot acreage data was also collected in 2017. The total pluot acreage at the state level is estimated at 33 acres with 9,792 trees. Pluot data at region and variety levels were not published due to disclosure rules.

"Washington Fruit Survey 2017" Report as Compared to "Washington Fruit Survey 2011" Report and Earlier Publications

Published results for tree fruit from the surveys conducted with a reference date of January 1, 1986, 1993, 2001, 2006, 2011, and 2017 are shown in the following four tables. The results for January 1, 2001 and before were rounded to reflect that these data are estimates. The results for the January 1, 2017, 2011, and 2006 reference dates are published to the nearest acre and tree. Publishing to the nearest acre and tree facilitated publication of cross-tabulations by area, variety, and year planted. Although every effort has been made to provide high quality data, published items should be considered to approximate the true values. The 2017 and 2011 survey screened out respondents with fewer than five acres of tree fruit and total grape acreage less than one acre. In 2006, any orchard or vineyard with one acre or more were asked to complete the survey. Screening out of the smaller operations was an effort to focus time and resources on records that would have a more significant impact on the estimates. The methodology in 2017 was virtually the same as the 2011 survey, which used more advanced procedures and methodology than previous studies. The proportion of reported data as a percentage of the total fruit acres was lower than 2011. As with the 2011 survey, the 2017 survey respondents were asked to provide the number of certified organic acres as well as transition to organic acres for each block of fruit. These results are summarized by variety and growing region. As mentioned previously, data on rootstock was not collected, nor published, in 2017.

Tree Fruit: Acreage, by Variety, Washington, Historical Comparisons, January 1, 1986-2017

Fruit variety	Total acres					
	1986 (acres)	1993 (acres)	2001 (acres)	2006 (acres)	2011 (acres)	2017 (acres)
Apples						
Ambrosia.....	-	-	-	374	695	1,528
Autumn Glory.....	-	-	-	-	-	543
Braeburn.....	-	3,300	6,100	6,873	4,009	1,298
Cameo.....	-	-	-	4,308	2,431	509
Cripps Pink (Pink Lady).....	-	-	3,300	4,006	4,810	8,923
Early Fuji.....	-	-	-	-	1,432	592
Envy.....	-	-	-	-	-	343
Fuji/Red Fuji.....	-	11,100	24,400	22,153	27,683	28,718
Gala.....	230	5,900	25,500	27,807	32,780	41,036
Golden Delicious.....	22,665	23,300	22,700	19,012	14,852	7,760
Granny Smith.....	8,220	8,500	17,600	23,593	18,585	16,267
Honeycrisp.....	-	-	-	4,307	9,098	22,616
Jazz.....	-	-	-	806	1,317	872
Jonagold.....	185	-	2,400	2,218	1,450	360
Kanzi.....	-	-	-	-	-	1,742
Opal.....	-	-	-	-	-	1,520
Pacific Rose.....	-	-	-	277	335	472
Red Delicious.....	121,175	110,000	82,000	51,530	43,379	39,207
Other ¹	8,505	9,900	8,000	5,722	4,633	4,838
Total Apples.....	160,980	172,000	192,000	172,986	167,489	179,146
Sweet Cherries						
Attika.....	-	-	-	34	57	117
Benton.....	-	-	-	176	457	413
Bing.....	9,895	12,400	18,800	19,675	16,509	22,275
Chelan.....	-	-	1,000	2,009	2,516	4,193
Cowiche.....	-	-	-	-	-	107
Cristalina.....	-	-	-	50	163	85
Early Robin.....	-	-	-	44	199	398
Lambert.....	1,455	900	900	540	317	297
Lapins.....	-	-	1,900	1,531	2,022	1,266
Rainier.....	815	1,400	3,200	3,605	4,003	3,073
Santina.....	-	-	-	35	253	288
Skeena.....	-	-	-	1,492	2,576	2,468
Sweetheart.....	-	-	1,000	4,401	6,569	4,462
Tieton.....	-	-	-	553	577	705
Van.....	1,035	950	1,000	615	473	218
Other ¹	725	850	1,200	1,240	1,424	1,833
Total Sweet Cherries.....	13,925	16,500	29,000	36,000	38,115	42,198

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

¹ Other varieties include varieties with minimal acreage and unknown varieties.

Tree Fruit: Acreage, by Variety, Washington, Historical Comparisons, January 1, 1986-2017

Fruit variety	Total acres					
	1986 (acres)	1993 (acres)	2001 (acres)	2006 (acres)	2011 (acres)	2017 (acres)
All Pears						
Bartlett Pears						
Bartlett	11,910	11,300	12,300	11,314	9,113	7,663
Red Bartlett	1,100	850	300	386	445	135
Starkrimson	-	-	-	-	-	171
Other ¹	-	-	-	-	189	662
Total Bartlett Pears	13,010	12,150	12,600	11,700	9,747	8,631
Winter Pears						
Asian	-	-	-	257	124	102
Bosc	1,735	3,450	3,400	2,259	1,748	2,160
Bosc, Golden	-	-	-	265	259	555
Concorde	-	-	-	169	90	47
D'Anjou	10,260	11,200	10,700	9,506	9,121	8,436
D'Anjou, Red	-	-	-	756	531	856
Other ¹	745	800	1,300	288	388	180
Total Winter Pears	12,740	15,450	15,400	13,500	12,261	12,334
Total All Pears	25,750	27,600	28,000	25,200	22,008	20,965
Peaches						
Dimond Princess	-	-	-	62	131	111
Elberta	-	400	-	275	49	22
Elegant Lady	-	-	-	-	117	69
Flaming Fury	-	-	-	-	-	33
Golden Alberta	-	-	-	96	-	42
Hale	-	450	-	52	23	31
Red Globe	-	-	-	-	-	29
Red Haven	740	500	150	370	169	28
Rich Lady	-	-	-	165	260	151
Snow Giant	-	-	-	91	86	69
Starfire	-	-	-	-	-	52
Sweet Dream	-	-	-	99	132	75
Zee Lady	-	-	200	192	129	224
Other ¹	2,055	1,650	2,850	1,398	1,223	1,246
Total Peaches	2,795	3,000	3,200	2,800	2,319	2,179

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

¹ Other varieties include varieties with minimal acreage and unknown varieties.

Tree Fruit: Acreage, by Variety, Washington, Historical Comparisons, January 1, 1986-2017

Fruit variety	Total acres					
	1986 (acres)	1993 (acres)	2001 (acres)	2006 (acres)	2011 (acres)	2017 (acres)
Apricots						
Goldrich	-	-	-	79	48	34
Perfection.....	710	600	550	302	195	357
Rival.....	155	400	400	317	484	326
Other ¹	365	400	350	402	514	570
Total Apricots.....	1,230	1,400	1,300	1,100	1,241	1,288
Nectarines						
Honey Royal	-	-	-	88	153	61
Red Gold.....	665	800	250	164	131	68
Summer Blush	-	-	-	290	156	175
Other ¹	540	700	1,250	1,008	1,023	887
Total Nectarines.....	1,205	1,500	1,500	1,550	1,463	1,191
Prunes and Plums						
Early Italian	1,065	700	300	275	216	128
Empress.....	-	-	-	-	83	68
Late Italian	505	300	400	290	119	24
Other ¹	740	700	400	235	123	27
Total Prunes/Plums.....	2,310	1,700	1,100	800	541	247

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¹ Other varieties include varieties with minimal acreage and unknown varieties.

Tree Fruit: Acres, Trees, and Trees per Acre, by County, Washington, January 1, 2017

Fruit	Adams County			Benton County		
	Acres	Trees	Trees per acre	Acres	Trees	Trees per acre
Apples	3,935	2,721,458	692	16,481	13,430,681	815
Sweet cherries	142	38,805	273	3,967	893,790	225
Bartlett pears	-	-	-	63	17,420	276
Winter pears	-	-	-	14	1,687	120
Peaches	-	-	-	-	-	-
Tart cherries	-	-	-	-	-	-
Nectarines	-	-	-	-	-	-
Apricots	-	-	-	-	-	-
Prunes and plums	-	-	-	-	-	-
Fruit	Chelan County			Douglas County		
	Acres	Trees	Trees per acre	Acres	Trees	Trees per acre
Apples	6,621	3,005,014	454	9,206	5,566,457	605
Sweet cherries	6,023	1,419,196	236	3,767	1,023,406	272
Bartlett pears	2,300	497,163	216	890	209,239	235
Winter pears	5,131	953,673	186	935	162,647	174
Peaches	16	6,490	416	147	32,799	223
Tart cherries	-	-	-	-	-	-
Nectarines	4	1,482	423	46	6,523	141
Apricots	43	3,502	82	296	42,644	144
Prunes and Plums	-	-	-	-	-	-
Fruit	Franklin County			Grant County		
	Acres	Trees	Trees per acre	Acres	Trees	Trees per acre
Apples	11,113	8,171,731	735	49,862	42,629,143	855
Sweet cherries	4,836	1,002,870	207	4,609	1,167,964	253
Bartlett pears	-	-	-	214	43,030	201
Winter pears	-	-	-	142	34,438	242
Peaches	430	199,732	464	18	6,288	359
Tart cherries	-	-	-	-	-	-
Nectarines	258	112,068	434	-	-	-
Apricots	258	51,743	200	-	-	-
Prunes and plums	-	-	-	-	-	-
Fruit	Klickitat County			Okanogan County		
	Acres	Trees	Trees per acre	Acres	Trees	Trees per acre
Apples	792	450,601	569	18,194	9,014,331	495
Sweet cherries	2,446	627,804	257	2,427	687,700	283
Bartlett pears	-	-	-	1,729	476,235	275
Winter pears	-	-	-	4,661	934,072	200
Peaches	-	-	-	90	37,351	413
Tart cherries	-	-	-	-	-	-
Nectarines	-	-	-	-	-	-
Apricots	-	-	-	-	-	-
Prunes and plums	-	-	-	-	-	-
Fruit	Walla Walla County			Yakima County		
	Acres	Trees	Trees per acre	Acres	Trees	Trees per acre
Apples	9,646	6,936,662	719	51,690	33,248,619	643
Sweet cherries	758	168,199	222	13,170	4,356,272	331
Bartlett pears	-	-	-	3,252	883,850	272
Winter pears	-	-	-	1,256	346,890	276
Peaches	-	-	-	1,403	395,917	282
Tart cherries	-	-	-	-	-	-
	-	-	-	814	280,438	345
	-	-	-	650	267,434	411
	-	-	-	190	29,078	211

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

Tree Fruit: Acres, Trees, and Trees per Acre, by Growing Area, Washington, January 1, 2017

Fruit	Yakima Valley			Wenatchee		
	Acres	Trees	Trees per acre	Acres	Trees	Trees per acre
Apples.....	69,117	47,657,582	690	34,021	17,585,802	517
Sweet cherries	17,136	5,250,062	306	12,216	3,130,302	256
Bartlett pears	3,319	903,770	272	4,919	1,182,637	240
Winter pears	1,270	348,577	275	10,727	2,050,392	191
Peaches.....	1,412	397,794	282	253	76,640	303
Tart cherries.....	-	-	-	-	-	-
Nectarines	814	280,637	345	63	10,395	165
Apricots.....	657	268,176	408	340	46,314	136
Prunes and plums	190	42,988	226	5	1,984	367
	Columbia Basin			Other areas		
	Acres	Trees	Trees per acre	Acres	Trees	Trees per acre
Apples.....	64,910	53,522,332	825	11,098	7,702,545	694
Sweet cherries	9,587	2,209,639	230	3,258	809,026	248
Bartlett pears	359	72,278	201	34	8,523	-
Winter pears	209	48,261	231	128	28,863	225
Peaches.....	448	206,020	460	67	8,634	128
Tart cherries.....	2,431	452,603	186	3	331	110
Nectarines	307	136,242	444	7	2,192	313
Apricots.....	287	58,370	203	3	355	104
Prunes and plums	-	-	-	-	-	-
	Washington					
	Acres		Trees		Trees per acre	
Apples.....	179,146		126,468,261		706	
Sweet cherries	42,198		11,399,029		270	
Bartlett pears	8,631		2,167,208		251	
Winter pears	12,334		2,476,093		201	
Peaches.....	2,179		689,088		316	
Tart cherries.....	2,509		469,338		187	
Nectarines	1,191		429,466		361	
Apricots.....	1,288		373,215		290	
Prunes and plums	247		58,776		238	

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

Apples: Acres, by Area and Variety, Washington, January 1, 2017

Variety	Yakima Valley	Wenatchee	Columbia Basin	Other areas	Washington
	(acres)	(acres)	(acres)	(acres)	(acres)
Ambrosia	-	617	911	-	1,528
Autumn Glory	383	-	147	-	543
Braeburn.....	444	-	766	-	1,298
Cameo.....	166	209	87	48	509
Cripps Pink (Pink Lady)	3,532	2,564	2,542	285	8,923
Early Fuji	218	-	194	-	592
Envy	109	-	204	-	343
Fuji/Red Fuji	7,854	7,746	11,126	1,993	28,718
Gala.....	17,603	7,069	14,397	1,968	41,036
Golden Delicious	3,040	2,399	2,060	261	7,760
Granny Smith	8,533	2,159	4,230	1,346	16,267
Honeycrisp	9,511	4,039	7,932	1,134	22,616
Jazz.....	396	-	352	-	872
Jonagold.....	223	-	-	66	360
Kanzi	-	-	1,651	-	1,742
Opal.....	-	-	-	-	1,520
Pacific Rose	83	333	-	-	472
Red Delicious	15,828	4,522	16,740	2,117	39,207
Other ¹	1,111	1,826	1,507	394	4,838
Total	69,117	34,021	64,910	11,098	179,146

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

¹ Other varieties include varieties with minimal acreage and unknown varieties.

Apples: Trees, by Area and Variety, Washington, January 1, 2017

Variety	Yakima Valley	Wenatchee	Columbia Basin	Other areas	Washington
	(trees)	(trees)	(trees)	(trees)	(trees)
Ambrosia	-	917,554	1,308,936	-	2,226,974
Autumn Glory	342,551	-	149,223	-	493,274
Braeburn.....	273,677	-	477,551	-	798,347
Cameo.....	81,806	84,362	55,550	30,138	251,856
Cripps Pink (Pink Lady)	3,293,238	1,740,807	2,804,852	247,469	8,086,366
Early Fuji	186,967	-	272,465	-	578,031
Envy	139,888	-	288,936	-	430,776
Fuji/Red Fuji	6,395,794	3,540,200	10,720,135	1,650,345	22,306,474
Gala.....	13,424,929	3,167,824	13,454,356	1,498,272	31,545,381
Golden Delicious	1,114,734	838,406	2,551,345	85,843	4,590,328
Granny Smith	6,561,726	947,684	2,779,069	400,669	10,689,148
Honeycrisp	9,752,089	2,660,722	7,443,710	1,004,080	20,860,601
Jazz.....	302,579	-	466,195	-	974,359
Jonagold.....	156,568	-	-	35,919	209,538
Kanzi	-	-	2,396,020	-	2,486,826
Opal.....	-	-	-	-	1,645,097
Pacific Rose	51,072	385,247	-	-	493,745
Red Delicious	4,824,981	1,514,073	7,144,224	800,887	14,284,165
Other ¹	714,575	1,372,191	1,148,934	281,275	3,516,975
Total	47,657,582	17,585,802	53,522,332	7,702,545	126,468,261

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

¹ Other varieties include varieties with minimal acreage and unknown varieties.

Apples: Trees per Acre, by Area and Variety, Washington, January 1, 2017

Variety	Yakima Valley	Wenatchee	Columbia Basin	Other areas	Washington
	(trees per acre)	(trees per acre)	(trees per acre)	(trees per acre)	(trees per acre)
Ambrosia	-	1,488	1,437	-	1,457
Autumn Glory.....	895	-	1,015	-	908
Braeburn.....	616	-	623	-	615
Cameo.....	493	404	638	634	494
Cripps Pink (Pink Lady).....	932	679	1,103	870	906
Early Fuji.....	857	-	1,404	-	976
Envy	1,279	-	1,419	-	1,256
Fuji/Red Fuji.....	814	457	964	828	777
Gala.....	763	448	935	761	769
Golden Delicious.....	367	349	1,238	330	592
Granny Smith.....	769	439	657	298	657
Honeycrisp.....	1,025	659	938	886	922
Jazz.....	765	-	1,323	-	1,117
Jonagold.....	703	-	-	548	582
Kanzi	-	-	1,451	-	1,427
Opal.....	-	-	-	-	1,082
Pacific Rose.....	618	1,157	-	-	1,047
Red Delicious.....	305	335	427	378	364
Other ¹	643	751	763	713	727
Total	690	517	825	694	706

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

¹ Other varieties include varieties with minimal acreage and unknown varieties.

Apples: Acres, by Age and Variety, Washington, January 1, 2017

Variety	Year planted							Total
	Prior to 1996	1996-2000	2001-2005	2006-2011	2012-2013	2014-2015	2016	
	(acres)	(acres)	(acres)	(acres)	(acres)	(acres)	(acres)	(acres)
Ambrosia	-	-	333	969	-	114	-	1,528
Autumn Glory.....	-	-	-	-	-	303	-	543
Braeburn.....	204	258	702	-	-	-	-	1,298
Cameo.....	174	88	110	-	-	-	-	509
Cripps Pink (Pink Lady).....	2,477	2,235	832	1,081	555	1,283	460	8,923
Early Fuji.....	-	-	179	313	-	-	-	592
Envy	-	-	-	-	64	-	-	343
Fuji/Red Fuji.....	8,294	2,165	3,181	9,793	2,476	1,920	889	28,718
Gala.....	9,973	8,915	5,768	9,366	3,150	2,829	1,038	41,036
Golden Delicious.....	3,521	972	1,276	1,283	-	-	-	7,760
Granny Smith.....	5,692	4,664	1,752	2,284	-	1,341	-	16,267
Honeycrisp.....	870	948	1,992	6,734	3,765	5,876	2,431	22,616
Jazz.....	-	-	340	479	-	-	-	872
Jonagold.....	157	117	19	65	-	-	-	360
Kanzi	-	-	-	-	963	81	-	1,742
Opal.....	-	-	-	493	-	-	-	1,520
Pacific Rose.....	-	-	187	284	-	-	-	472
Red Delicious.....	22,942	11,599	848	2,458	1,014	-	-	39,207
Other ¹	1,239	367	154	1,349	201	774	755	4,838
Total	55,658	32,395	18,341	37,180	14,110	15,286	6,177	179,146

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

¹ Other varieties include varieties with minimal acreage and unknown varieties.

Apples: Trees, by Age and Variety, Washington, January 1, 2017

Variety	Year planted							Total
	Prior to 1996	1996-2000	2001-2005	2006-2011	2012-2013	2014-2015	2016	
	(trees)	(trees)	(trees)	(trees)	(trees)	(trees)	(trees)	(trees)
Ambrosia	-	-	386,336	1,512,469	-	187,862	-	2,226,974
Autumn Glory	-	-	-	-	-	291,569	-	493,274
Braeburn.....	103,936	158,087	442,234	-	-	-	-	798,347
Cameo.....	93,759	43,271	70,958	-	-	-	-	251,856
Cripps Pink (Pink Lady)	1,813,593	1,358,331	752,183	970,521	726,863	1,796,130	668,745	8,086,366
Early Fuji	-	-	80,326	401,485	-	-	-	578,031
Envy	-	-	-	-	90,579	-	-	430,776
Fuji/Red Fuji	3,839,304	1,342,733	2,479,162	8,553,411	2,759,829	2,160,870	1,171,165	22,306,474
Gala.....	5,386,870	5,484,636	4,290,641	8,166,226	3,363,401	3,676,436	1,177,171	31,545,381
Golden Delicious	1,104,548	527,021	787,790	829,496	-	-	-	4,590,328
Granny Smith	2,162,018	3,372,133	1,184,220	1,855,080	-	1,321,408	-	10,689,148
Honeycrisp	445,803	598,081	1,328,980	6,681,419	3,643,763	5,845,612	2,316,943	20,860,601
Jazz.....	-	-	328,107	615,070	-	-	-	974,359
Jonagold.....	116,116	49,668	4,479	37,987	-	-	-	209,538
Kanzi	-	-	-	-	1,266,680	107,050	-	2,486,826
Opal.....	-	-	-	539,124	-	-	-	1,645,097
Pacific Rose	-	-	108,637	383,632	-	-	-	493,745
Red Delicious	7,240,391	4,447,475	401,541	1,415,067	608,513	-	-	14,284,165
Other ¹	391,427	177,407	96,759	880,945	154,024	920,661	895,752	3,516,975
Total	22,817,913	17,596,190	13,815,208	32,987,632	15,280,471	16,914,354	7,056,493	126,468,261

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

¹ Other varieties include varieties with minimal acreage and unknown varieties.

Apples: Trees per Acre, by Age and Variety, Washington, January 1, 2017

Variety	Year planted							Total
	Prior to 1996	1996-2000	2001-2005	2006-2011	2012-2013	2014-2015	2016	
	(trees per acre)	(trees per acre)	(trees per acre)	(trees per acre)	(trees per acre)	(trees per acre)	(trees per acre)	(trees per acre)
Ambrosia	-	-	1,161	1,561	-	1,642	-	1,457
Autumn Glory	-	-	-	-	-	962	-	908
Braeburn.....	509	612	630	-	-	-	-	615
Cameo.....	538	489	645	-	-	-	-	494
Cripps Pink (Pink Lady)	732	608	904	898	1,310	1,400	1,453	906
Early Fuji	-	-	449	1,283	-	-	-	976
Envy	-	-	-	-	1,415	-	-	1,256
Fuji/Red Fuji	463	620	779	873	1,115	1,126	1,317	777
Gala.....	540	615	744	872	1,068	1,300	1,135	769
Golden Delicious	314	542	314	646	-	-	-	592
Granny Smith	380	723	676	812	-	985	-	657
Honeycrisp	512	631	667	992	968	995	953	922
Jazz.....	-	-	964	1,285	-	-	-	1,117
Jonagold.....	741	426	238	583	-	-	-	582
Kanzi	-	-	-	-	1,316	1,318	-	1,427
Opal.....	-	-	-	1,094	-	-	-	1,082
Pacific Rose	-	-	582	1,352	-	-	-	1,047
Red Delicious	316	383	473	576	600	-	-	364
Other ¹	316	483	630	653	767	1,189	1,187	727
Total	410	543	753	887	1,083	1,107	1,142	706

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

¹ Other varieties include varieties with minimal acreage and unknown varieties.

Apples: Acres, Trees, and Trees per acre, by Age and Area, Washington, January 1, 2017

Year planted	Yakima Valley	Wenatchee	Columbia Basin	Other areas	Washington
	(acres)	(acres)	(acres)	(acres)	(acres)
Prior to 1996	22,243	14,759	15,043	3,613	55,658
1996-2000	13,511	5,593	11,830	1,461	32,395
2001-2005	5,446	3,515	8,319	1,061	18,341
2006-2011	14,391	5,492	15,278	2,020	37,180
2012-2013	5,273	1,703	5,759	1,375	14,110
2014-2015	6,104	1,966	6,064	1,152	15,286
2016	2,149	994	2,617	416	6,177
Total	69,117	34,021	64,910	11,098	179,146

Year planted	Yakima Valley	Wenatchee	Columbia Basin	Other areas	Washington
	(trees)	(trees)	(trees)	(trees)	(trees)
Prior to 1996	9,635,667	5,416,035	6,369,574	1,396,637	22,817,913
1996-2000	7,346,885	2,714,666	6,781,780	752,859	17,596,190
2001-2005	3,783,524	1,813,449	7,478,439	739,796	13,815,208
2006-2011	11,749,828	3,384,159	15,986,430	1,867,215	32,987,632
2012-2013	5,427,924	1,306,321	7,163,062	1,383,164	15,280,471
2014-2015	6,935,055	2,056,871	6,801,718	1,120,710	16,914,354
2016	2,778,699	894,301	2,941,329	442,164	7,056,493
Total	47,657,582	17,585,802	53,522,332	7,702,545	126,468,261

Year planted	Yakima Valley	Wenatchee	Columbia Basin	Other areas	Washington
	(trees per acre)	(trees per acre)	(trees per acre)	(trees per acre)	(trees per acre)
Prior to 1996	433	367	423	387	410
1996-2000	544	485	573	515	543
2001-2005	695	516	899	697	753
2006-2011	816	616	1,046	924	887
2012-2013	1,029	767	1,244	1,006	1,083
2014-2015	1,136	1,046	1,122	973	1,107
2016	1,293	900	1,124	1,062	1,142
Total	690	517	825	694	706

Apples: Bearing, Non-bearing, and Total Trees, by Variety, Washington, January 1, 2017

Variety	Bearing	Non-bearing	Total
	(trees)	(trees)	(trees)
Ambrosia	2,052,048	174,926	2,226,974
Autumn Glory	367,983	125,291	493,274
Braeburn.....	-	-	798,347
Cameo.....	-	-	251,856
Cripps Pink (Pink Lady)	5,447,014	2,639,352	8,086,366
Early Fuji	516,167	61,864	578,031
Fuji/Red Fuji	18,936,207	3,370,267	22,306,474
Envy	140,171	290,605	430,776
Gala.....	26,722,909	4,822,472	31,545,381
Golden Delicious	4,574,338	15,990	4,590,328
Granny Smith	8,841,271	1,847,877	10,689,148
Honeycrisp	13,791,742	7,068,859	20,860,601
Jazz.....	-	-	974,359
Jonagold.....	-	-	209,538
Kanzi	1,192,192	1,294,634	2,486,826
Opal.....	-	-	1,645,097
Pacific Rose	-	-	493,745
Red Delicious	13,854,689	429,476	14,284,165
Other ¹	1,859,359	1,657,616	3,516,975
Total	102,667,163	23,801,098	126,468,261

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

¹ Other varieties include varieties with minimal acreage and unknown varieties.

Apples: Bearing, Non-bearing, and Total Trees, by Age, Washington, January 1, 2017

Year planted	Bearing	Non-bearing	Total
	(trees)	(trees)	(trees)
Prior to 1996.....	21,410,599	1,407,314	22,817,913
1996-2000	17,383,010	213,180	17,596,190
2001-2005	13,691,693	123,515	13,815,208
2006-2011	32,659,241	328,391	32,987,632
2012-2013	12,405,253	2,875,218	15,280,471
2014-2015	5,117,367	11,796,987	16,914,354
2016	-	7,056,493	7,056,493
Total	102,667,163	23,801,098	126,468,261

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

Apples: Bearing, Non-bearing, and Total Trees, by Area, Washington, January 1, 2017

Area	Bearing	Non-bearing	Total
	(trees)	(trees)	(trees)
Yakima Valley.....	38,589,633	9,067,949	47,657,582
Wenatchee	13,934,241	3,651,561	17,585,802
Columbia Basin	43,311,082	10,211,250	53,522,332
Other areas	6,832,207	870,338	7,702,545
Washington	102,667,163	23,801,098	126,468,261

Sweet Cherries: Acres, by Area and Variety, Washington, January 1, 2017

Variety	Yakima Valley	Wenatchee	Columbia Basin	Other areas	Washington
	(acres)	(acres)	(acres)	(acres)	(acres)
Attika	-	-	-	-	117
Benton	138	161	-	-	413
Bing	12,083	4,220	4,544	1,429	22,275
Chelan	1,526	255	1,134	1,278	4,193
Cowiche	-	-	-	-	107
Cristalina.....	-	45	-	-	85
Early Robin	-	69	263	-	398
Lambert	-	-	-	-	297
Lapins	132	1,038	88	9	1,266
Rainier	776	1,541	649	107	3,073
Santina	160	71	-	-	288
Skeena	930	929	558	51	2,468
Sweetheart.....	-	2,696	1,157	-	4,462
Tieton.....	201	162	172	169	705
Van.....	65	65	71	17	218
Other ¹	412	836	543	42	1,833
Total	17,136	12,216	9,587	3,258	42,198

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

¹ Other varieties include varieties with minimal acreage and unknown varieties.

Sweet Cherries: Trees, by Area and Variety, Washington, January 1, 2017

Variety	Yakima Valley	Wenatchee	Columbia Basin	Other areas	Washington
	(trees)	(trees)	(trees)	(trees)	(trees)
Attika	-	-	-	-	37,247
Benton	36,744	53,466	-	-	135,158
Bing	3,822,956	699,236	791,783	308,282	5,622,257
Chelan	476,117	91,923	299,593	347,976	1,215,609
Cowiche	-	-	-	-	32,535
Cristalina.....	-	12,944	-	-	23,886
Early Robin	-	31,113	90,762	-	141,053
Lambert	-	-	-	-	55,317
Lapins	45,713	249,661	18,998	1,796	316,168
Rainier	175,283	415,656	158,237	37,663	786,839
Santina	64,570	26,970	-	-	115,815
Skeena	234,446	260,613	181,326	13,559	689,944
Sweetheart.....	-	826,644	263,008	-	1,271,331
Tieton.....	69,302	53,510	80,237	41,303	244,352
Van.....	10,909	9,363	19,226	3,968	43,466
Other ¹	100,148	358,132	199,737	10,035	668,052
Total	5,250,062	3,130,302	2,209,639	809,026	11,399,029

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

¹ Other varieties include varieties with minimal acreage and unknown varieties.

Sweet Cherries: Trees per Acre, by Area and Variety, Washington, January 1, 2017

Variety	Yakima Valley	Wenatchee	Columbia Basin	Other areas	Washington
	(trees per acre)	(trees per acre)	(trees per acre)	(trees per acre)	(trees per acre)
Attika	-	-	-	-	319
Benton.....	266	332	-	-	327
Bing.....	316	166	174	216	252
Chelan.....	312	361	264	272	290
Cowiche	-	-	-	-	304
Cristalina.....	-	288	-	-	281
Early Robin.....	-	454	345	-	354
Lambert.....	-	-	-	-	186
Lapins.....	346	241	217	209	250
Rainier.....	226	270	244	351	256
Santina.....	403	378	-	-	402
Skeena.....	252	281	325	267	280
Sweetheart.....	-	307	227	-	285
Tieton.....	344	329	466	244	347
Van.....	167	144	272	232	199
Other ¹	243	429	368	238	364
Total	306	256	230	248	270

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

¹ Other varieties include varieties with minimal acreage and unknown varieties.

Sweet Cherries: Acres, by Age and Variety, Washington, January 1, 2017

Variety	Year planted							Total
	Prior to 1996	1996-2000	2001-2005	2006-2011	2012-2013	2014-2015	2016	
	(acres)	(acres)	(acres)	(acres)	(acres)	(acres)	(acres)	(acres)
Attika	-	-	-	-	-	-	-	117
Benton.....	-	-	125	144	88	-	-	413
Bing.....	10,018	4,020	7,036	894	203	73	31	22,275
Chelan.....	471	1,048	991	734	104	794	51	4,193
Cowiche	-	-	-	-	-	-	-	107
Cristalina.....	-	-	-	-	47	-	-	85
Early Robin.....	-	-	239	52	82	21	-	398
Lambert.....	289	-	-	-	-	-	-	297
Lapins.....	351	495	331	66	-	21	-	1,266
Rainier.....	1,005	672	753	495	68	60	19	3,073
Santina.....	-	21	30	36	152	-	39	288
Skeena.....	192	132	526	455	291	184	689	2,468
Sweetheart.....	609	385	2,316	1,062	-	63	-	4,462
Tieton.....	68	-	319	161	-	-	19	705
Van.....	102	37	-	69	-	-	-	218
Other ¹	419	63	215	383	238	297	218	1,833
Total	13,609	7,011	12,895	4,705	1,310	1,555	1,114	42,198

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

¹ Other varieties include varieties with minimal acreage and unknown varieties.

Sweet Cherries: Trees, by Age and Variety, Washington, January 1, 2017

Variety	Year planted							Total
	Prior to 1996	1996-2000	2001-2005	2006-2011	2012-2013	2014-2015	2016	
	(trees)	(trees)	(trees)	(trees)	(trees)	(trees)	(trees)	(trees)
Attika	-	-	-	-	-	-	-	37,247
Benton	-	-	28,575	53,760	28,534	-	-	135,158
Bing	1,632,882	847,197	2,841,151	217,073	56,079	13,565	14,310	5,622,257
Chelan	105,576	269,394	338,946	222,182	44,786	214,847	19,878	1,215,609
Cowiche	-	-	-	-	-	-	-	32,535
Cristalina	-	-	-	-	13,196	-	-	23,886
Early Robin	-	-	74,104	18,117	34,760	10,872	-	141,053
Lambert	52,073	-	-	-	-	-	-	55,317
Lapins	74,094	142,320	76,531	16,360	-	6,124	-	316,168
Rainier	174,051	178,339	236,772	151,768	17,313	24,111	4,485	786,839
Santina	-	5,479	13,860	8,263	61,892	-	22,752	115,815
Skeena	33,068	39,582	129,582	138,625	122,912	74,727	151,448	689,944
Sweetheart	159,473	114,765	652,213	319,545	-	16,768	-	1,271,331
Tieton	13,994	-	87,049	83,473	-	-	11,916	244,352
Van	15,466	7,345	-	18,726	-	-	-	43,466
Other ¹	107,130	38,121	71,329	125,633	100,605	109,273	115,961	668,052
Total	2,388,587	1,688,637	4,553,311	1,430,153	492,816	486,194	359,331	11,399,029

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

¹ Other varieties include varieties with minimal acreage and unknown varieties.

Sweet Cherries: Trees per Acre, by Age and Variety, Washington, January 1, 2017

Variety	Year planted							Total
	Prior to 1996	1996-2000	2001-2005	2006-2011	2012-2013	2014-2015	2016	
	(trees per acre)	(trees per acre)	(trees per acre)	(trees per acre)	(trees per acre)	(trees per acre)	(trees per acre)	(trees per acre)
Attika	-	-	-	-	-	-	-	319
Benton	-	-	229	374	325	-	-	327
Bing	163	211	404	243	277	185	456	252
Chelan	224	257	342	303	432	271	391	290
Cowiche	-	-	-	-	-	-	-	304
Cristalina	-	-	-	-	281	-	-	281
Early Robin	-	-	311	349	426	520	-	354
Lambert	180	-	-	-	-	-	-	186
Lapins	211	287	231	246	-	293	-	250
Rainier	173	265	314	306	253	399	239	256
Santina	-	266	459	233	406	-	579	402
Skeena	172	300	247	305	422	407	220	280
Sweetheart	262	298	282	301	-	267	-	285
Tieton	205	-	273	517	-	-	630	347
Van	151	200	-	273	-	-	-	199
Other ¹	256	604	332	328	423	368	531	364
Total	176	241	353	304	376	313	323	270

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

¹ Other varieties include varieties with minimal acreage and unknown varieties.

Sweet Cherries: Acres, Trees, and Trees per acre, by Age and Area, Washington, January 1, 2017

Year planted	Yakima Valley	Wenatchee	Columbia Basin	Other areas	Washington
	(acres)	(acres)	(acres)	(acres)	(acres)
Prior to 1996.....	4,663	4,827	3,679	440	13,609
1996-2000.....	1,693	1,741	2,318	1,258	7,011
2001-2005.....	8,027	3,036	1,228	603	12,895
2006-2011.....	1,444	1,617	-	-	4,705
2012-2013.....	386	459	422	43	1,310
2014-2015.....	212	352	147	844	1,555
2016.....	710	185	-	-	1,114
Total.....	17,136	12,216	9,587	3,258	42,198

Year planted	Yakima Valley	Wenatchee	Columbia Basin	Other areas	Washington
	(trees)	(trees)	(trees)	(trees)	(trees)
Prior to 1996.....	834,767	865,130	615,896	72,794	2,388,587
1996-2000.....	353,814	479,662	511,068	344,093	1,688,637
2001-2005.....	3,256,716	852,969	314,437	129,189	4,553,311
2006-2011.....	435,555	512,440	-	-	1,430,153
2012-2013.....	122,633	190,655	167,777	11,751	492,816
2014-2015.....	68,458	133,156	62,540	222,040	486,194
2016.....	178,119	96,290	-	-	359,331
Total.....	5,250,062	3,130,302	2,209,639	809,026	11,399,029

Year planted	Yakima Valley	Wenatchee	Columbia Basin	Other areas	Washington
	(trees per acre)	(trees per acre)	(trees per acre)	(trees per acre)	(trees per acre)
Prior to 1996.....	179	179	167	165	176
1996-2000.....	209	275	220	274	241
2001-2005.....	406	281	256	214	353
2006-2011.....	302	317	-	-	304
2012-2013.....	317	415	397	276	376
2014-2015.....	323	378	425	263	313
2016.....	251	522	-	-	323
Total.....	306	256	230	248	270

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

Sweet Cherries: Bearing, Non-bearing, and Total Trees, by Variety, Washington, January 1, 2017

Variety	Bearing	Non-bearing	Total
	(trees)	(trees)	(trees)
Attika	-	-	37,247
Benton	118,870	16,288	135,158
Bing	5,489,363	132,894	5,622,257
Chelan	955,431	260,178	1,215,609
Cowiche	-	-	32,535
Cristalina.....	-	-	23,886
Early Robin	-	-	141,053
Lambert	-	-	55,317
Lapins.....	313,380	2,788	316,168
Rainier.....	753,859	32,980	786,839
Santina	64,957	50,858	115,815
Skeena	506,227	183,717	689,944
Sweetheart.....	1,251,437	19,894	1,271,331
Tieton.....	230,351	14,001	244,352
Van	43,451	15	43,466
Other ¹	437,259	230,793	668,052
Total	10,432,703	966,326	11,399,029

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

¹ Other varieties include varieties with minimal acreage and unknown varieties.

Sweet Cherries: Bearing, Non-bearing, and Total Trees, by Age, Washington, January 1, 2017

Year planted	Bearing	Non-bearing	Total
	(trees)	(trees)	(trees)
Prior to 1996	2,284,770	103,817	2,388,587
1996-2000	1,686,966	1,671	1,688,637
2001-2005	4,537,231	16,080	4,553,311
2006-2011	1,408,545	21,608	1,430,153
2012-2013	397,428	95,388	492,816
2014-2015	117,763	368,431	486,194
2016	-	359,331	359,331
Total	10,432,703	966,326	11,399,029

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

Sweet Cherries: Bearing, Non-bearing, and Total Trees, by Area, Washington, January 1, 2017

Area	Bearing	Non-bearing	Total
	(trees)	(trees)	(trees)
Yakima Valley	4,970,602	279,460	5,250,062
Wenatchee.....	2,818,356	311,946	3,130,302
Columbia Basin.....	2,055,429	154,210	2,209,639
Other areas.....	588,316	220,710	809,026
Washington.....	10,432,703	966,326	11,399,029

Pears: Acres, by Area and Variety, Washington, January 1, 2017

Variety	Yakima Valley	Wenatchee	Columbia Basin	Other areas	Washington
	(acres)	(acres)	(acres)	(acres)	(acres)
Bartlett Pears					
Bartlett.....	3,209	4,074	348	33	7,663
Red Bartlett.....	-	84	-	-	135
Starkrimson.....	-	168	-	-	171
Other ¹	57	593	-	-	662
All Bartlett Pears.....	3,319	4,919	359	34	8,631
Winter Pears					
Asian.....	-	30	-	59	102
Bosc.....	332	1,740	-	-	2,160
Bosc, Golden.....	126	416	-	-	555
Concorde.....	-	45	-	-	47
D'Anjou.....	707	7,591	-	-	8,436
D'Anjou, Red.....	27	828	-	-	856
Other ¹	67	77	34	2	180
All Winter Pears.....	1,270	10,727	209	128	12,334
Total Pears.....	4,589	15,646	568	162	20,965

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

¹ Other varieties include varieties with minimal acreage and unknown varieties.

Pears: Trees, by Area and Variety, Washington, January 1, 2017

Variety	Yakima Valley	Wenatchee	Columbia Basin	Other areas	Washington
	(trees)	(trees)	(trees)	(trees)	(trees)
Bartlett Pears					
Bartlett.....	880,408	962,577	69,638	8,294	1,920,917
Red Bartlett.....	-	21,876	-	-	32,457
Starkrimson.....	-	56,506	-	-	57,025
Other ¹	12,263	141,678	-	-	156,809
All Bartlett Pears.....	903,770	1,182,637	72,278	8,523	2,167,208
Winter Pears					
Asian.....	-	4,923	-	13,538	24,241
Bosc.....	98,942	330,759	-	-	446,395
Bosc, Golden.....	27,222	114,471	-	-	143,853
Concorde.....	-	12,080	-	-	13,062
D'Anjou.....	188,255	1,386,230	-	-	1,606,468
D'Anjou, Red.....	7,396	171,959	-	-	179,853
Other ¹	22,914	29,970	9,012	325	62,221
All Winter Pears.....	348,577	2,050,392	48,261	28,863	2,476,093
Total Pears.....	1,252,347	3,233,029	120,539	37,386	4,643,301

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

¹ Other varieties include varieties with minimal acreage and unknown varieties.

Pears: Trees per Acre, by Area and Variety, Washington, January 1, 2017

Variety	Yakima Valley	Wenatchee	Columbia Basin	Other areas	Washington
	(trees per acre)	(trees per acre)	(trees per acre)	(trees per acre)	(trees per acre)
Bartlett Pears					
Bartlett	274	236	200	251	251
Red Bartlett.....	-	260	-	-	240
Starkrimson.....	-	336	-	-	333
Other ¹	215	239	-	-	237
All Bartlett Pears	272	240	201	-	251
Winter Pears					
Asian.....	-	164	-	230	239
Bosc.....	298	190	-	-	207
Bosc, Golden	216	275	-	-	259
Concorde	-	267	-	-	276
D'Anjou	266	183	-	-	190
D'Anjou, Red.....	279	208	-	-	210
Other ¹	341	390	267	181	347
All Winter Pears	275	191	231	225	201
Total Pears	273	207	212	231	221

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

¹ Other varieties include varieties with minimal acreage and unknown varieties.

Pears: Acres, by Age and Variety, Washington, January 1, 2017

Variety	Year planted							Total
	Prior to 1996	1996-2000	2001-2005	2006-2011	2012-2013	2014-2015	2016	
	(acres)	(acres)	(acres)	(acres)	(acres)	(acres)	(acres)	(acres)
Bartlett Pears								
Bartlett	4,529	1,206	592	870	211	-	-	7,663
Red Bartlett.....	45	-	-	-	-	-	-	135
Starkrimson.....	11	-	-	154	-	-	-	171
Other ¹	648	-	-	-	-	-	-	662
All Bartlett Pears	5,232	1,211	656	1,036	-	188	-	8,631
Winter Pears								
Asian.....	69	-	-	-	-	-	-	102
Bosc.....	1,279	445	174	182	-	-	-	2,160
Bosc, Golden	199	307	21	-	-	-	-	555
Concorde	-	-	-	-	-	-	-	47
D'Anjou	6,196	1,121	483	360	-	64	-	8,436
D'Anjou, Red.....	479	32	-	79	257	-	-	856
Other ¹	-	38	16	46	-	23	-	180
All Winter Pears	8,265	1,990	701	673	-	114	-	12,334
Total Pears	13,497	3,201	1,357	1,709	650	302	249	20,965

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

¹ Other varieties include varieties with minimal acreage and unknown varieties.

Pears: Trees, by Age and Variety, Washington, January 1, 2017

Variety	Year planted							Total
	Prior to 1996	1996-2000	2001-2005	2006-2011	2012-2013	2014-2015	2016	
	(trees)	(trees)	(trees)	(trees)	(trees)	(trees)	(trees)	(trees)
Bartlett Pears								
Bartlett.....	1,004,023	304,349	147,659	298,626	46,961	-	-	1,920,917
Red Bartlett.....	8,289	-	-	-	-	-	-	32,457
Starkrimson.....	3,632	-	-	51,231	-	-	-	57,025
Other ¹	153,841	-	-	-	-	-	-	156,809
All Bartlett Pears.....	1,169,785	305,833	162,979	355,350	-	71,700	-	2,167,208
Winter Pears								
Asian.....	12,335	-	-	-	-	-	-	24,241
Bosc.....	213,958	123,892	35,587	56,825	-	-	-	446,395
Bosc, Golden.....	56,431	76,735	4,330	-	-	-	-	143,853
Concorde.....	-	-	-	-	-	-	-	13,062
D'Anjou.....	1,039,565	231,528	133,278	127,552	-	18,846	-	1,606,468
D'Anjou, Red.....	74,639	8,968	-	29,752	63,591	-	-	179,853
Other ¹	-	9,663	4,933	20,093	-	5,444	-	62,221
All Winter Pears.....	1,408,853	465,506	182,341	236,350	-	32,738	-	2,476,093
Total Pears.....	2,578,638	771,339	345,320	591,700	152,897	104,438	98,969	4,643,301

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

¹ Other varieties include varieties with minimal acreage and unknown varieties.

Pears: Trees per Acre, by Age and Variety, Washington, January 1, 2017

Variety	Year planted							Total
	Prior to 1996	1996-2000	2001-2005	2006-2011	2012-2013	2014-2015	2016	
	(trees per acre)	(trees per acre)	(trees per acre)	(trees per acre)	(trees per acre)	(trees per acre)	(trees per acre)	(trees per acre)
Bartlett Pears								
Bartlett.....	222	252	250	343	223	-	-	251
Red Bartlett.....	186	-	-	-	-	-	-	240
Starkrimson.....	339	-	-	333	-	-	-	333
Other ¹	237	-	-	-	-	-	-	237
All Bartlett Pears.....	224	253	249	343	-	382	-	251
Winter Pears								
Asian.....	180	-	-	-	-	-	-	239
Bosc.....	167	279	204	312	-	-	-	207
Bosc, Golden.....	284	250	205	-	-	-	-	259
Concorde.....	-	-	-	-	-	-	-	276
D'Anjou.....	168	207	276	354	-	294	-	190
D'Anjou, Red.....	156	278	-	376	248	-	-	210
Other ¹	-	252	316	440	-	241	-	347
All Winter Pears.....	170	234	260	351	-	287	-	201
Total Pears.....	191	241	255	346	235	346	397	221

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

¹ Other varieties include varieties with minimal acreage and unknown varieties.

Pears: Acres, by Age and Area, Washington, January 1, 2017

Year planted	Yakima Valley	Wenatchee	Columbia Basin	Other areas	Washington
	(acres)	(acres)	(acres)	(acres)	(acres)
Bartlett Pears					
Prior to 1996	1,726	3,227	-	-	5,232
1996-2000.....	899	308	-	-	1,211
2001-2005.....	217	439	-	-	656
2006-2011.....	339	697	-	-	1,036
2012-2013.....	-	125	-	-	-
2014-2015.....	38	-	-	-	188
2016.....	-	-	-	-	-
All Bartlett Pears	3,319	4,919	359	34	8,631
Winter Pears					
Prior to 1996	613	7,500	104	48	8,265
1996-2000.....	348	1,605	-	-	1,990
2001-2005.....	-	604	68	-	701
2006-2011.....	233	440	-	-	673
2012-2013.....	29	391	-	-	-
2014-2015.....	-	-	-	-	114
2016.....	-	-	-	-	-
All Winter Pears	1,270	10,727	209	128	12,334
Total Pears	4,589	15,646	568	162	20,965

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

Pears: Trees, by Age and Area, Washington, January 1, 2017

Year planted	Yakima Valley	Wenatchee	Columbia Basin	Other areas	Washington
	(trees)	(trees)	(trees)	(trees)	(trees)
Bartlett Pears					
Prior to 1996	461,279	648,348	-	-	1,169,785
1996-2000.....	232,262	73,133	-	-	305,833
2001-2005.....	50,878	112,033	-	-	162,979
2006-2011.....	92,724	262,625	-	-	355,350
2012-2013.....	-	33,650	-	-	-
2014-2015.....	11,681	-	-	-	71,700
2016.....	-	-	-	-	-
All Bartlett Pears	903,770	1,182,637	72,278	8,523	2,167,208
Winter Pears					
Prior to 1996	150,264	1,228,406	21,851	8,332	1,408,853
1996-2000.....	96,028	360,226	-	-	465,506
2001-2005.....	-	160,584	16,051	-	182,341
2006-2011.....	79,045	157,282	-	-	236,350
2012-2013.....	8,611	92,676	-	-	-
2014-2015.....	-	-	-	-	32,738
2016.....	-	-	-	-	-
All Winter Pears	348,577	2,050,392	48,261	28,863	2,476,093
Total Pears	1,252,347	3,233,029	120,539	37,386	4,643,301

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

Pears: Trees per Acre, by Age and Area, Washington, January 1, 2017

Year planted	Yakima Valley	Wenatchee	Columbia Basin	Other areas	Washington
	(trees per acre)	(trees per acre)	(trees per acre)	(trees per acre)	(trees per acre)
Bartlett Pears					
Prior to 1996	267	201	-	-	224
1996-2000	258	237	-	-	253
2000-2005	234	255	-	-	249
2006-2011	274	377	-	-	343
2012-2013	-	270	-	-	-
2014-2015	310	-	-	-	382
2016	-	-	-	-	-
All Bartlett Pears	272	240	201	254	251
Winter Pears					
Prior to 1996	245	164	211	175	170
1996-2000	276	224	-	-	234
2001-2005	-	266	237	-	260
2006-2011	339	358	-	-	351
2012-2013	299	237	-	-	-
2014-2015	-	-	-	-	287
2016	-	-	-	-	-
All Winter Pears	275	191	231	225	201
Total Pears	273	207	212	231	221

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

Pears: Bearing, Non-bearing, and Total Trees, by Variety, Washington, January 1, 2017

Variety	Bearing (trees)	Non-bearing (trees)	Total (trees)
Bartlett Pears			
Bartlett	1,790,818	130,099	1,920,917
Red Bartlett	-	-	32,457
Starkrimson	55,947	1,078	57,025
Other ¹	-	-	156,809
All Bartlett Pears	2,026,543	140,665	2,167,208
Winter Pears			
Asian	-	-	24,241
Bosc	430,513	15,882	446,395
Bosc, Golden	-	-	143,853
Concorde	-	-	13,062
D'Anjou	1,537,514	68,954	1,606,468
D'Anjou, Red	167,627	12,226	179,853
Other ¹	44,280	17,941	62,221
All Winter Pears	2,360,910	115,183	2,476,093
Total Pears	4,387,453	255,848	4,643,301

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

¹ Other varieties include varieties with minimal acreage and unknown varieties.

Pears: Bearing, Non-bearing, and Total Trees, by Age, Washington, January 1, 2017

Year planted	Bearing (trees)	Non-bearing (trees)	Total (trees)
Bartlett Pears			
Prior to 1996	1,156,852	12,933	1,169,785
1996-2000	303,060	2,773	305,833
2001-2005	155,257	7,722	162,979
2006-2011	349,418	5,932	355,350
2012-2013	-	-	-
2014-2015	13,538	58,162	71,700
2016	-	-	-
All Bartlett Pears	2,026,543	140,665	2,167,208
Winter Pears			
Prior to 1996	1,385,931	22,922	1,408,853
1996-2000	463,956	1,550	465,506
2001-2005	178,207	4,134	182,341
2006-2011	228,964	7,386	236,350
2012-2013	-	-	-
2014-2015	24,084	8,654	32,738
2016	-	-	-
All Winter Pears	2,360,910	115,183	2,476,093
Total Pears	4,387,453	255,848	4,643,301

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

Pears: Bearing, Non-bearing, and Total Trees, by Area, Washington, January 1, 2017

Area	Bearing (trees)	Non-bearing (trees)	Total (trees)
Bartlett Pears			
Yakima Valley	837,170	66,600	903,770
Wenatchee	1,109,502	73,135	1,182,637
Columbia Basin	-	-	72,278
Other areas.....	-	-	8,523
All Bartlett Pears.....	2,026,543	140,665	2,167,208
Winter Pears			
Yakima Valley	338,801	9,776	348,577
Wentachee	1,950,958	99,434	2,050,392
Columbia Basin	-	-	48,261
Other areas.....	-	-	28,863
All Winter Pears.....	2,360,910	115,183	2,476,093
Total Pears.....	4,387,453	255,848	4,643,301

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

Apricots: Acres, Trees, Trees per Acre, and Non-bearing Trees, by Variety, Washington, January 1, 2017

Variety	Acres	Trees	Trees per acre	Non-bearing trees
	(acres)	(trees)	(trees per acre)	(trees)
Goldrich	34	7,404	218	-
Perfection	357	53,741	150	-
Rival	326	54,981	169	-
Other ¹	570	257,089	451	10,833
Total	1,288	373,215	290	11,201

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

¹ Other varieties include varieties with minimal acreage and unknown varieties.

Apricots: Acres, Trees, Trees per Acre, and Non-bearing Trees, by Age, Washington, January 1, 2017

Year planted	Acres	Trees	Trees per acre	Non-bearing trees
	(acres)	(trees)	(trees per acre)	(trees)
Prior to 1996	491	78,046	159	-
1996-2000	126	21,478	171	-
2001-2005	346	49,347	143	-
2006-2011	-	-	-	-
2012-2013	26	7,128	271	2,894
2014-2015	28	8,535	301	4,924
2016	-	-	-	-
Total	1,288	373,215	290	11,201

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

Nectarines: Acres, Trees, Trees per Acre, and Non-bearing Trees, by Variety, Washington, January 1, 2017

Variety	Acres	Trees	Trees per acre	Non-bearing trees
	(acres)	(trees)	(trees per acre)	(trees)
Honey Royal.....	61	16,861	277	-
Red Gold.....	68	10,459	154	-
Summer Blush.....	175	80,346	458	-
Other ¹	887	321,800	363	44,660
Total.....	1,191	429,466	361	46,082

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

¹ Other varieties includes varieties with minimal acreage and unknown varieties.

Nectarines: Acres, Trees, Trees per Acre, and Non-bearing Trees, by Age, Washington, January 1, 2017

Year planted	Acres	Trees	Trees per acre	Non-bearing trees
	(acres)	(trees)	(trees per acre)	(trees)
Prior to 1996.....	8	940	122	-
1996-2000.....	269	105,711	394	-
2001-2005.....	301	83,822	278	-
2006-2011.....	513	171,343	334	-
2012-2013.....	10	1,821	192	-
2014-2015.....	89	64,328	723	44,581
2016.....	3	1,501	577	1,501
Total.....	1,191	429,466	361	46,082

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

Peaches: Acres, Trees, Trees per Acre, and Non-bearing Trees, by Variety, Washington, January 1, 2017

Variety	Acres	Trees	Trees per acre	Non-bearing trees
	(acres)	(trees)	(trees per acre)	(trees)
Diamond Princess.....	111	32,766	295	-
Elberta.....	22	4,065	189	-
Elegant Lady.....	69	20,135	292	5,900
Flaming Fury.....	33	8,295	251	-
Golden Alberta.....	42	7,271	173	-
Hale.....	31	5,391	177	-
Red Globe.....	29	5,309	182	-
Red Haven.....	28	6,107	220	1,888
Rich Lady.....	151	58,342	388	-
Snow Giant.....	69	32,524	469	-
Starfire.....	52	17,393	335	806
Sweet Dream.....	75	33,430	448	-
Zee Lady.....	224	56,661	254	924
Other ¹	1,246	401,399	322	32,310
Total.....	2,179	689,088	316	44,098

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

¹ Other varieties include varieties with minimal acreage and unknown varieties.

Peaches: Acres, Trees, Trees per Acre, and Non-bearing Trees, by Age, Washington, January 1, 2017

Year planted	Acres	Trees	Trees per acre	Non-bearing trees
	(acres)	(trees)	(trees per acre)	(trees)
Prior to 1996.....	258	33,086	128	670
1996-2000.....	956	323,381	338	2,887
2001-2005.....	457	140,125	306	-
2006-2011.....	308	118,770	386	-
2012-2013.....	74	23,515	318	10,111
2014-2015.....	50	20,290	403	400
2016.....	76	29,921	393	29,921
Total.....	2,179	689,088	316	44,098

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

Prunes and Plums: Acres, Trees, Trees per Acre, and Non-bearing Trees, by Variety, Washington, January 1, 2017

Variety	Acres	Trees	Trees per acre	Non-bearing trees
	(acres)	(trees)	(trees per acre)	(trees)
Early Italian.....	128	27,659	216	-
Empress.....	68	19,186	282	-
Late Italian.....	24	4,979	209	-
Other ¹	27	6,952	261	-
Total.....	247	58,776	238	-

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

¹ Other varieties include varieties with minimal acreage and unknown varieties.

Prunes and Plums: Acres, Trees, Trees per Acre, and Non-bearing Trees, by Age, Washington, January 1, 2017

Year planted	Acres	Trees	Trees per acre	Non-bearing trees
	(acres)	(trees)	(trees per acre)	(trees)
Prior to 1996.....	52	11,978	232	-
1996-2000.....	31	7,572	243	-
2001-2005.....	115	24,094	209	-
2006-2011.....	47	14,476	311	-
2012-2013.....	-	-	-	-
2014-2015.....	-	-	-	-
2016.....	-	-	-	-
Total.....	247	58,776	238	-

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

Tart Cherries: Acres, Trees, Trees per Acre, and Non-bearing Trees, by Variety, Washington, January 1, 2017

Variety	Acres	Trees	Trees per acre	Non-bearing trees
	(acres)	(trees)	(trees per acre)	(trees)
Montmorency (Tart Cherry) ¹	2,509	469,338	187	-
Total.....	2,509	469,338	187	-

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

¹ Includes a small amount of other varieties.

Tart Cherries: Acres, Trees, Trees per Acre, and Non-bearing Trees, by Age, Washington, January 1, 2017

Year planted	Acres	Trees	Trees per acre	Non-bearing trees
	(acres)	(trees)	(trees per acre)	(trees)
Prior to 1996.....	1,051	198,712	189	-
1996-2000.....	-	-	-	-
2001-2005.....	-	-	-	-
2006-2011.....	1,146	201,218	176	-
2012-2013.....	-	-	-	-
2014-2015.....	-	-	-	-
2016.....	-	-	-	-
Total.....	2,509	469,338	187	-

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

Tree Fruit: Organic and Transition Acres, by Area, Washington, January 1, 2017

Fruit	Certified					Transition
	Yakima Valley	Wenatchee	Columbia Basin	Other areas	Washington	Washington
	(acres)	(acres)	(acres)	(acres)	(acres)	(acres)
Apples.....	2,747	2,361	7,439	3,253	15,801	4,200
Sweet Cherries	369	464	674	533	2,040	332
Bartlett Pears	269	344	69	3	685	85
Winter Pears.....	92	1,434	35	6	1,567	103
Peaches.....	124	8	426	6	563	-
Apricots.....	-	31	-	-	251	24
Nectarines	92	-	303	-	401	-
Prunes and Plums.....	-	-	-	-	44	-

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

Apples: Organic and Transition Acres, by Area and Variety, Washington, January 1, 2017

Variety	Yakima Valley		Wenatchee		Columbia Basin		Other areas		Washington	
	Certified	Transition	Certified	Transition	Certified	Transition	Certified	Transition	Certified	Transition
	(acres)	(acres)	(acres)	(acres)	(acres)	(acres)	(acres)	(acres)	(acres)	(acres)
Braeburn.....	-	-	7	-	11	-	-	-	138	-
Cameo.....	-	-	61	-	-	-	-	-	184	-
Cripps Pink (Pink Lady).....	-	168	212	-	826	234	-	-	1,414	421
Fuji/Red Fuji.....	125	195	-	-	2,242	519	-	-	2,873	723
Gala.....	979	251	672	-	1,270	650	342	-	3,264	1,082
Golden Delicious.....	-	148	202	-	886	65	-	-	1,264	249
Granny Smith.....	734	183	-	-	453	293	-	-	1,486	496
Honeycrisp.....	135	-	589	212	501	527	378	-	1,604	872
Jonagold.....	-	-	50	-	-	-	-	-	80	-
Kanzi.....	-	-	-	-	754	-	-	-	806	-
Opal.....	-	-	-	-	-	-	-	-	1,303	-
Red Delicious.....	399	72	-	-	272	101	-	-	1,004	186
Other ¹	59	-	171	52	40	64	110	-	380	146
Total	2,747	-	2,361	-	7,439	-	3,253	-	15,801	4,200

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

¹ Other varieties include varieties with minimal acreage and unknown varieties.

Sweet Cherries: Organic and Transition Acres, by Area and Variety, Washington, January 1, 2017

Variety	Yakima Valley		Wenatchee		Columbia Basin		Other areas		Washington	
	Certified	Transition	Certified	Transition	Certified	Transition	Certified	Transition	Certified	Transition
	(acres)	(acres)	(acres)	(acres)	(acres)	(acres)	(acres)	(acres)	(acres)	(acres)
Bing ¹	89	-	246	-	326	-	278	-	939	40
Chelan.....	153	-	-	-	-	-	114	-	370	158
Lapins.....	-	-	34	27	-	-	-	-	143	39
Rainier.....	63	-	45	16	22	-	51	-	181	20
Skeena.....	-	-	-	-	-	-	-	-	74	-
Sweetheart.....	-	-	-	-	-	-	-	-	36	57
Tieton.....	-	-	-	-	-	-	-	-	33	-
Van.....	-	-	-	-	-	-	-	-	82	-
Other ²	-	-	-	-	-	-	-	-	183	12
Total	369	63	464	89	674	38	533	-	2,040	332

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

¹ Excludes Sunset Bing variety.

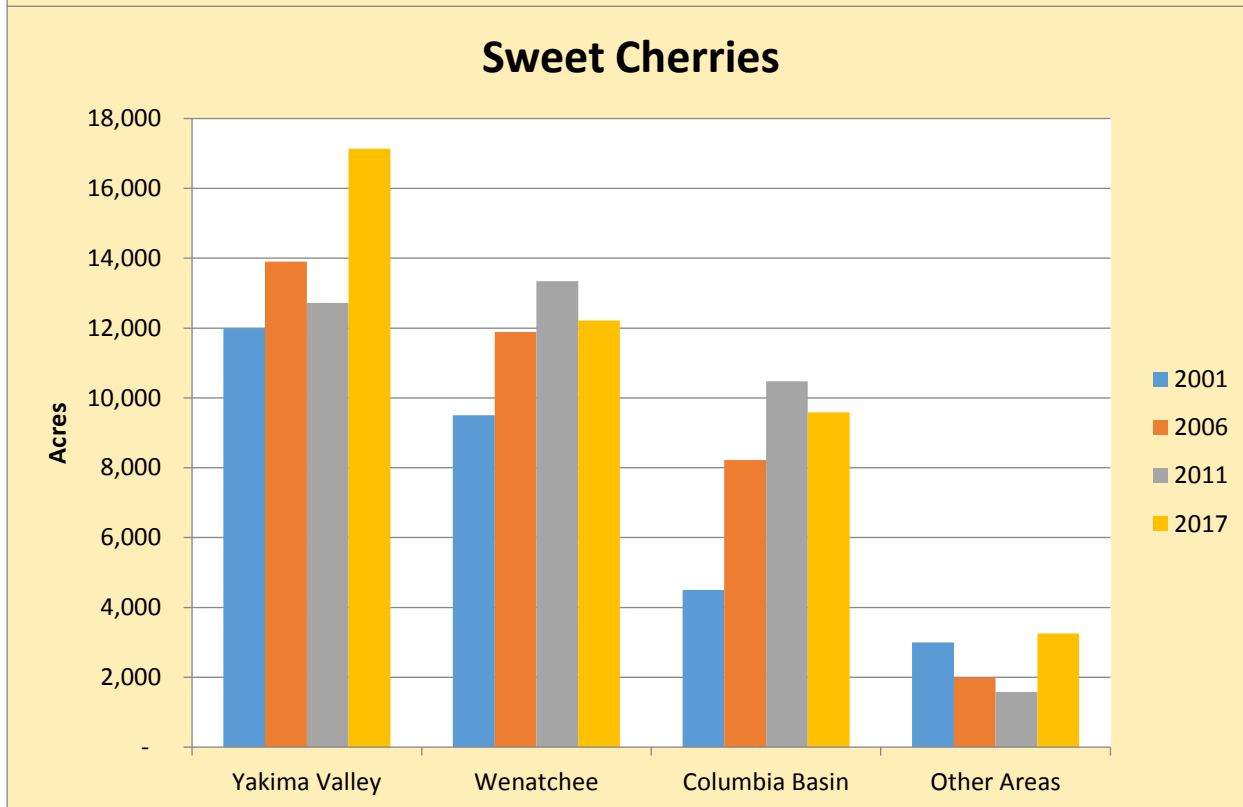
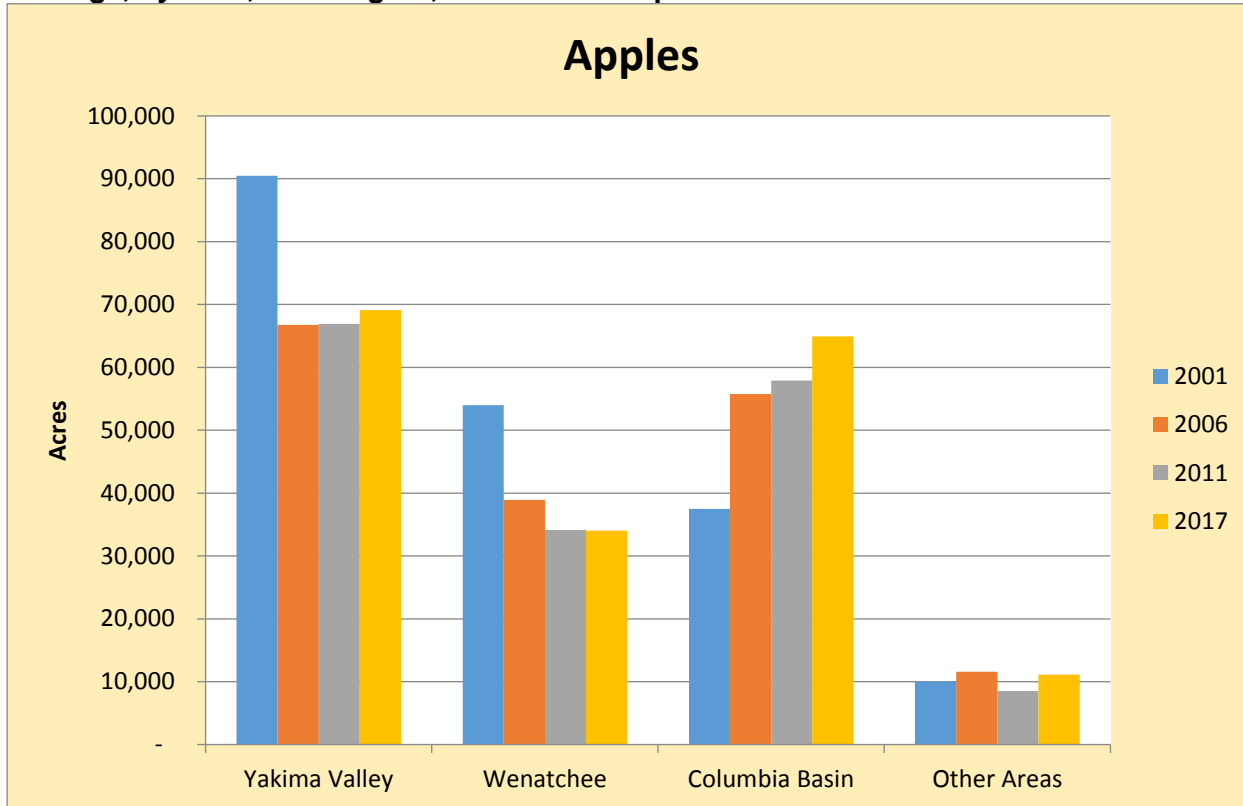
² Other varieties include varieties with minimal acreage and unknown varieties.

Other Fruit: Organic Acres, by Variety, Washington, January 1, 2017

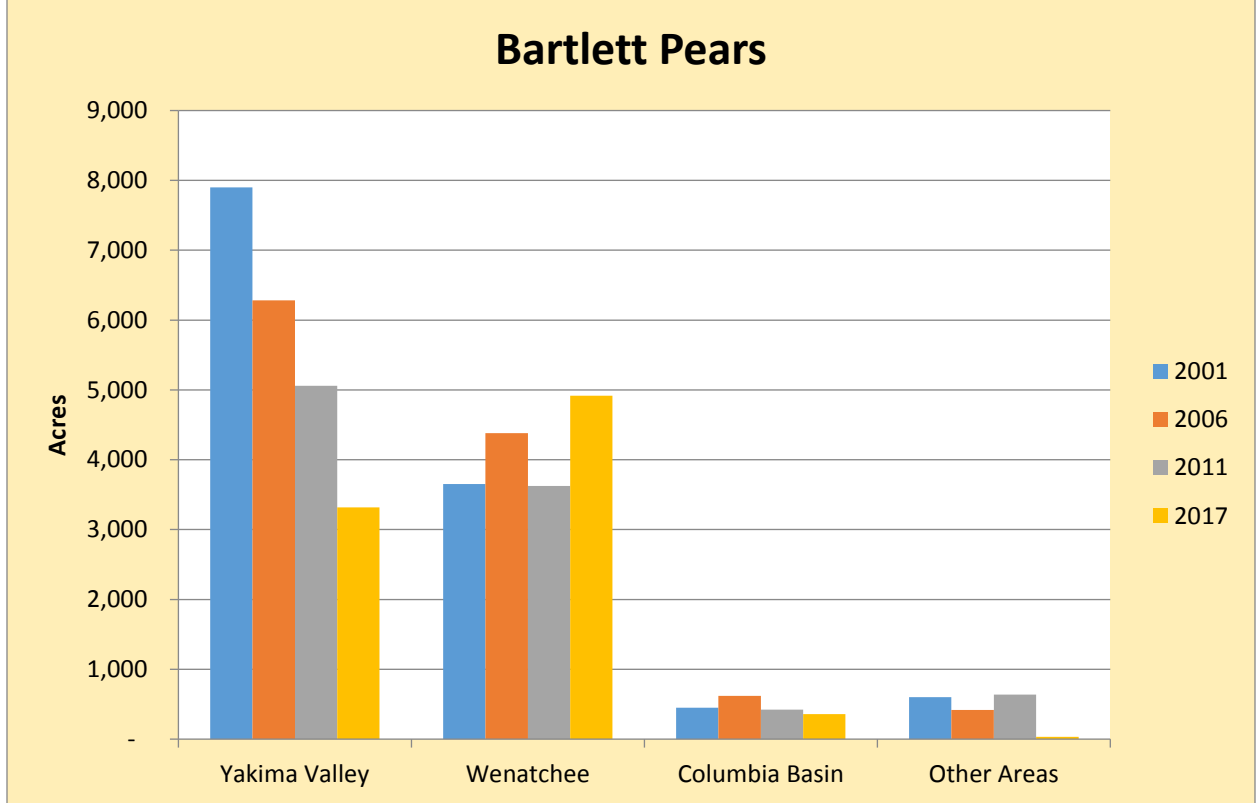
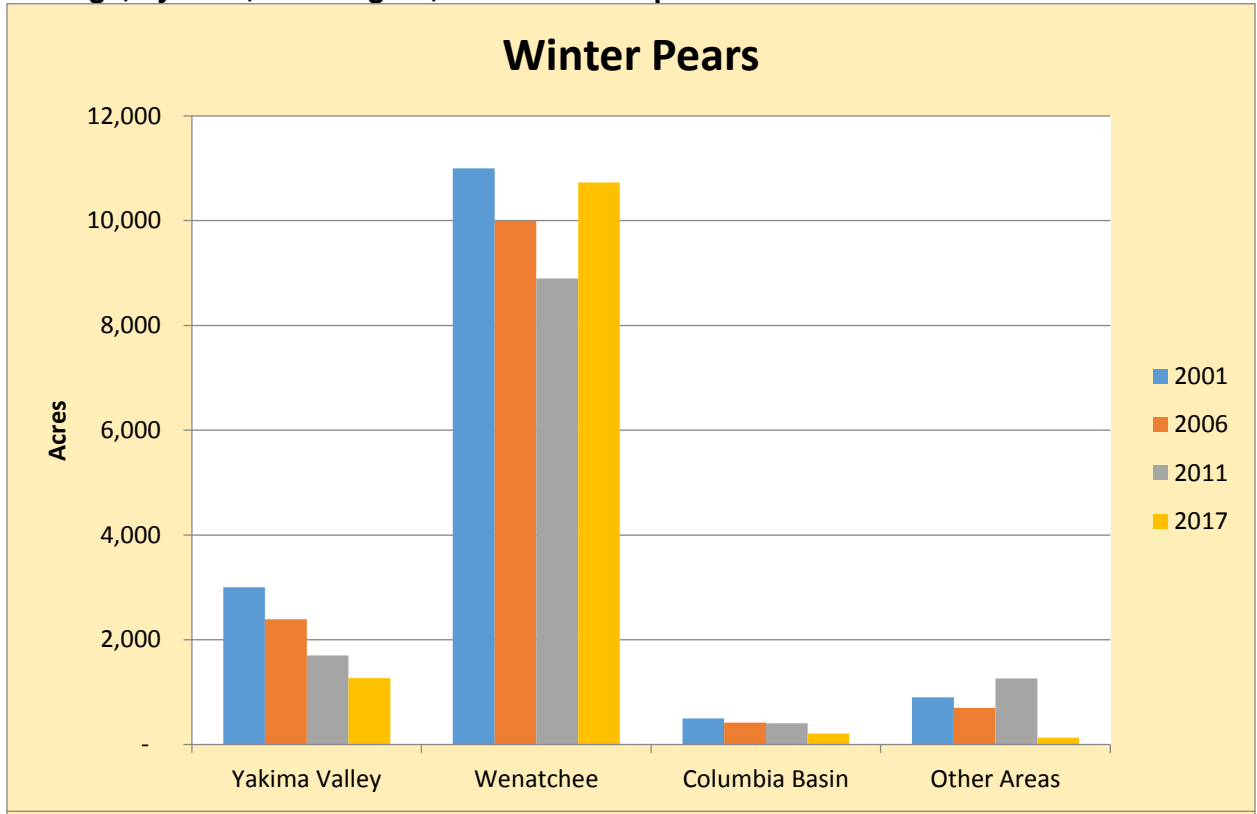
Fruit/Variety	Certified (acres)
Bartlett Pears	
Bartlett.....	662
Other ¹	23
All Bartlett Pears.....	685
Winter Pears	
Asian	27
Bosc.....	198
Bosc, Golden.....	52
D'Anjou.....	1,240
D'Anjou, Red	10
Other ¹	41
All Winter Pears.....	1,567
All Nectarines	401
All Peaches	563
All Apricots	251

¹ Other varieties include varieties with minimal acreage and unknown varieties.

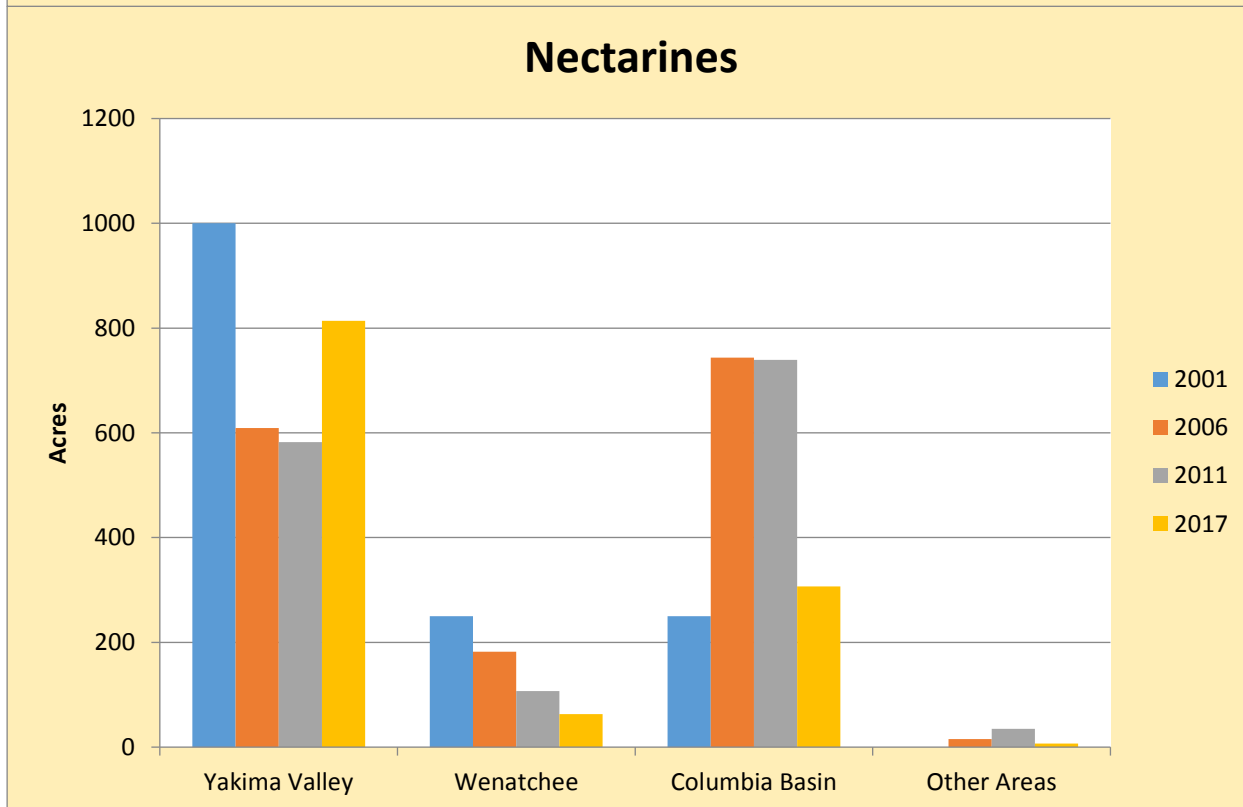
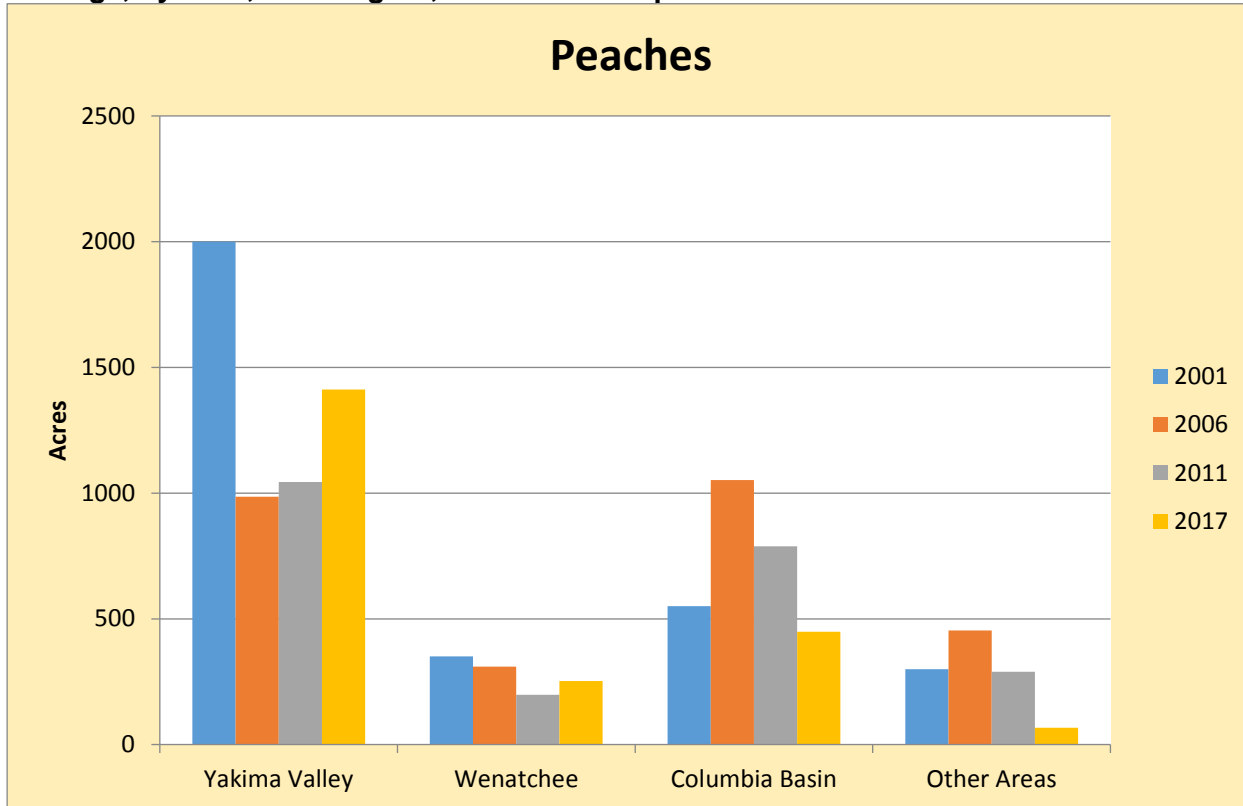
Acreage, by Fruit, Washington, Historical Comparisons



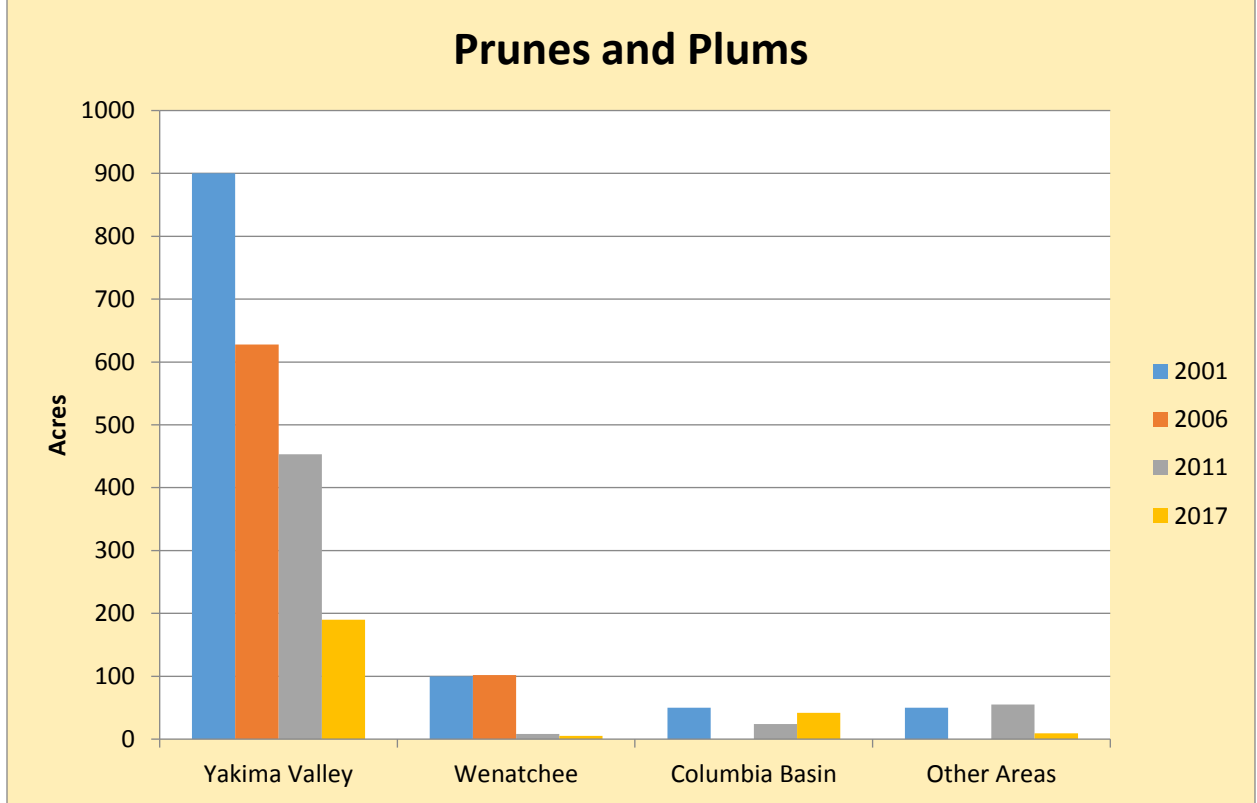
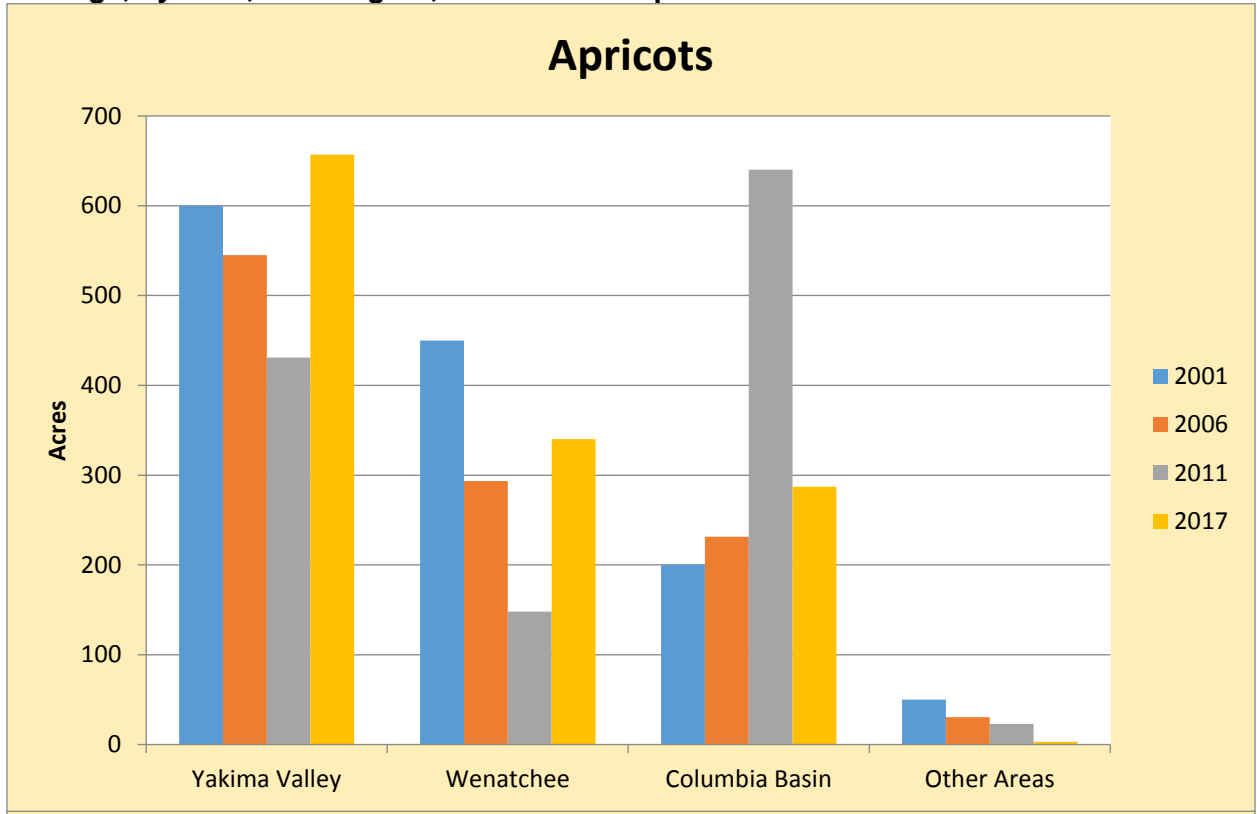
Acreage, by Fruit, Washington, Historical Comparisons



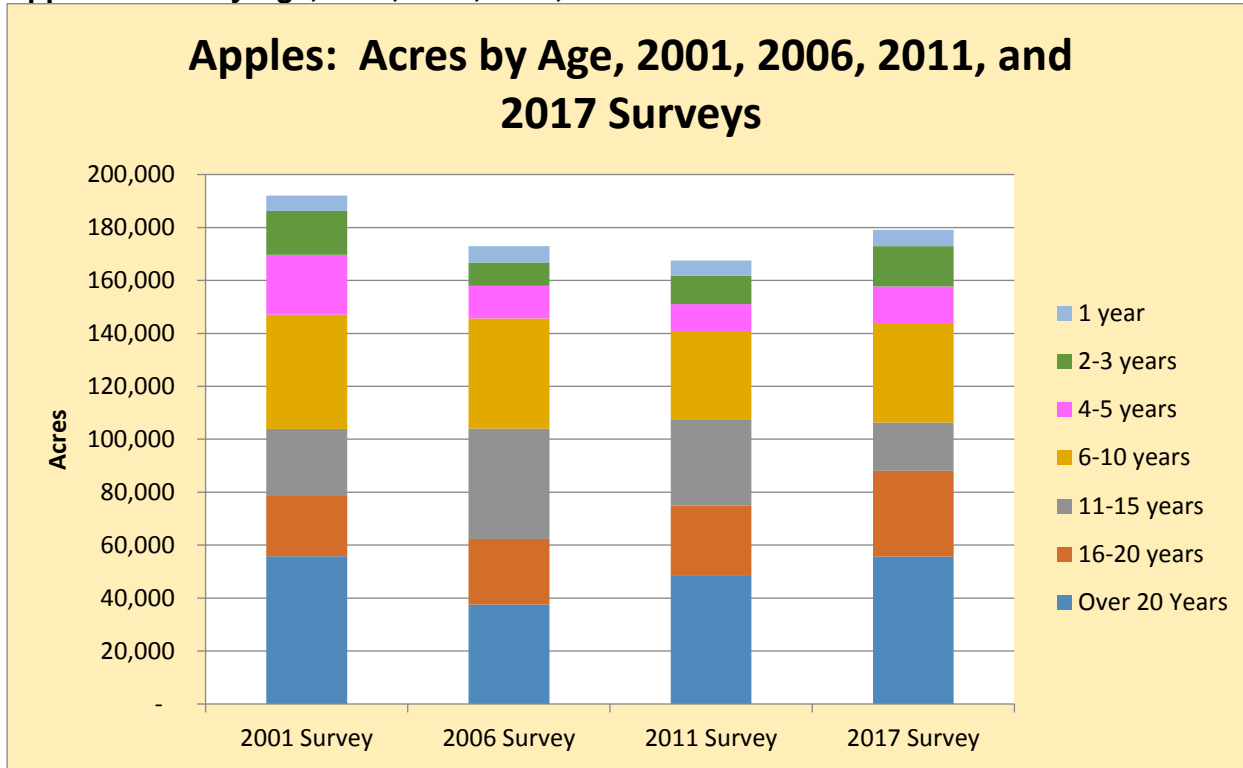
Acreage, by Fruit, Washington, Historical Comparisons



Acreage, by Fruit, Washington, Historical Comparisons

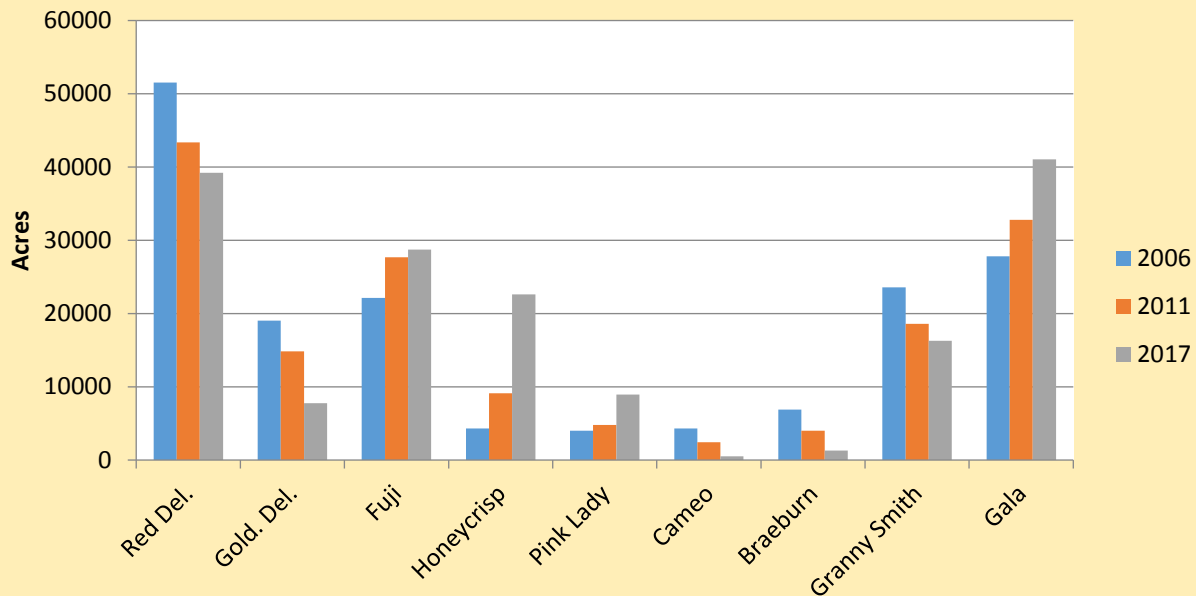


Apples: Acres by Age, 2001, 2006, 2011, and 2017

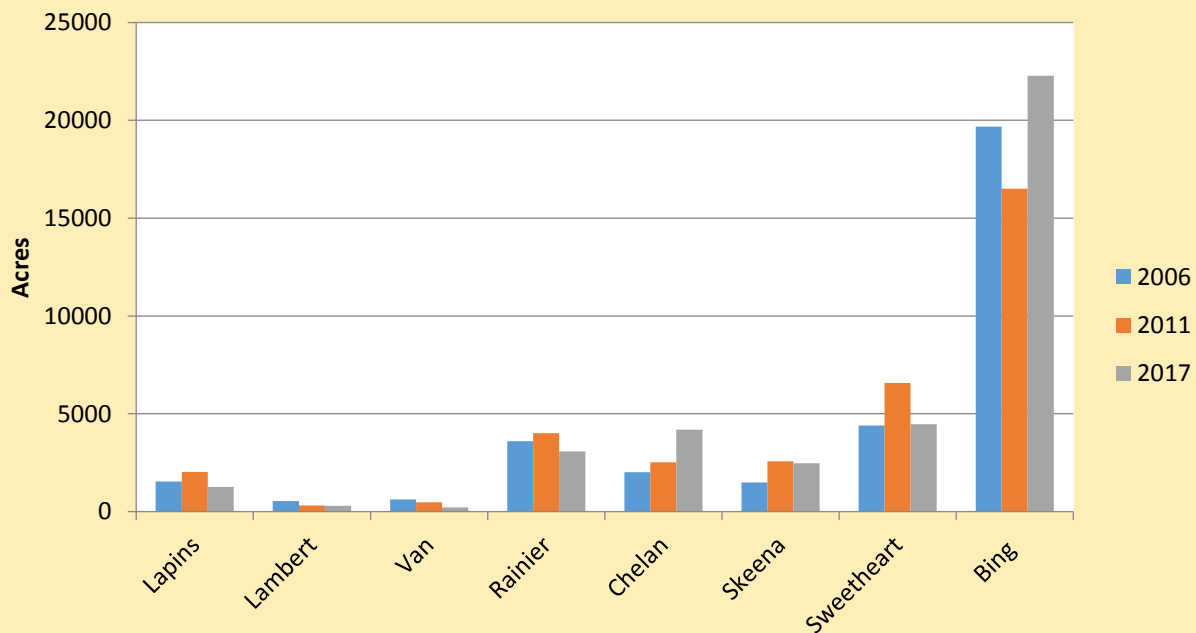


Apple and Sweet Cherry Acres by Selected Varieties, 2006, 2011, and 2017

Apples: Acres by Selected Variety, 2006, 2011, and 2017



Sweet Cherries: Acres by Selected Variety, 2006, 2011, and 2017



Dear Washington Tree Fruit Grower:

We are writing to urge you to participate in an important survey of tree fruit acreage in the state of Washington being conducted by the USDA's National Agricultural Statistics Service (USDA NASS).

A similar survey was conducted in 2011, which provided valuable data on planting trends, orchard density, and crop size potential. Your industry organizations use this data for strategic planning purposes, including the identification of target export markets for promotion programs. Moreover, many growers find this data valuable in making orchard planting and replacement decisions. But we are a growing and fast-changing industry, and an updated picture of orchard acreage is now needed.

Our organizations secured funding to help cover the cost of this survey from the Specialty Crop Block Grant Program administered by the Washington State Department of Agriculture. We also provided matching funds and staff time to help review the survey questions to ensure that the data has maximum value to the industry. But the most important partner in ensuring the success of this project is you. Please take the time out of your busy schedules to respond to the NASS survey with the most accurate data possible.

The results of the survey will be made available to all members of the industry through our organizations and at industry meetings. Moreover, by contracting with USDA NASS to conduct the survey, you can be sure that your data will be kept confidential and presented only in aggregate summary form.

We thank you for your assistance in making this survey—and our industry—a success!

Sincerely,



Washington State
Tree Fruit Association



Washington State
Fruit Commission



Washington Apple Commission



Pear Bureau Northwest

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



**Washington State
Fruit Commission**



**United States
Department of
Agriculture**



**NATIONAL
AGRICULTURAL
STATISTICS
SERVICE**

USDA/NASS - Washington
Northwest Region
PO Box 609
Olympia, WA 98507-0609
Phone: 1-800-435-8883
Fax: 1-855-270-2721
E-mail: NASSRFONWR@nass.usda.gov

Please make corrections to name, address, and zip code, if necessary.

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

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

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

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

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

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

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

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

INSTRUCTIONS FOR RECORDING DETAILED INFORMATION

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

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

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

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

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

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

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

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

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

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

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

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

Grape and Tree Fruit Acreage for

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

If more than 10 blocks, continue

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

Operation on Label - January 1, 2017

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

on enclosed supplement page(s).

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

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

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

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

SURVEY RESULTS

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

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

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

Reported by _____ Date _____ Phone _____

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

Respondent Booklet

2017 Grape and Tree Fruit Acreage Study

COUNTY CODES - Column 3

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

FRUIT TYPE CODES - Column 5

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

VARIETY CODES - Column 7

APPLE VARIETIES

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

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

APRICOT VARIETIES

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

CHERRY (All) VARIETIES

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

GRAPES, JUICE VARIETIES

901 Concord
 902 Niagara
 908 Other
 909 Not Reported

GRAPES, WINE VARIETIES

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

NECTARINE VARIETIES

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

PEACH VARIETIES

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

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

PEAR SUMMER/FALL VARIETIES

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

PEAR (WINTER) VARIETIES

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

PLUM & PRUNE VARIETIES

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

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

PLUOT VARIETIES

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

AMERICAN VITICULTURAL AREA CODES - Column 8

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

YEAR CODES - Column 9

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