

# Washington Vineyard Acreage Report 2011

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## 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 Dan Kelly at the Washington Growers Clearinghouse, Lindsay Buckner of Tree Top Inc., and Todd Fryhover of the Washington Apple Commission for their support, assistance and feedback. We would like to thank Vicky Scharlau and Susan Pheasant for feedback, assistance, and their efforts to promote this project. 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 the area survey portion 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 2011 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 sixth time a survey of this type has been conducted in Washington. Previous surveys were conducted in 1948-49, 1986, 1993, 2001, and 2006. Comparisons to previous data are shown in the publication. Data may not be comparable due to changes in survey methodology. 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.

In addition to the existing list of orchard operations, several lists of fruit producers were obtained and matched to the existing list to maximize the coverage of the list portion of the survey. Lists from commissions, associations, county assessors, marketing orders, and others were reviewed for this effort. The list portion of 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 5,200 operations. The modes of data collection included mail, telephone, personal interview, and online Electronic Data Reporting. Operations were given an opportunity to respond by mail beginning in December 2010. A copy of the questionnaire and respondent booklet are included in this report. The beginning date of data collection was December 1, 2010. The median date of data collection was February 15. Follow-up mailings were conducted and 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 23,000 individual blocks of fruit information from approximately 2,200 growers who reported one or more blocks of tree fruit or grapes were tabulated. Most of the nonrespondents were smaller-sized operations as less effort was made to follow-up with growers expected to report very small fruit acreages.

To evaluate the completeness of the list portion of the survey an area study was conducted. One hundred square miles, or sections, of land containing tree fruit or grapes were statistically sampled and screened for tree fruit or grape producers. Orchard or vineyards operators in the chosen sections were recorded and compared to the names in the list portion of the sample. Those area records not present on the list represent the incompleteness of the list portion of the survey. The list portion of the survey covered just over 95 percent of the total acreage. Much of the acreage missed by the list portion of the survey had recently changed ownership or management. Most of the operations not present on the list were very small operations.

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

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

Block level data from responding vineyards represented approximately 87 percent of the published totals for total grapes. The survey data totals were analyzed by American Viticultural Area (AVA) for reasonableness. Also, grape acreage totals from county assessor offices, data from the 2007 Census of Agriculture, the previous grape acreage survey, vineyard data from WSDA's GIS layer, and other industry data at the AVA level were considered in setting grape acreage "targets" at the state level and by AVA.

Once the targets were set, the adjustments were carried through to each individual responding block of data. The same adjustment process utilized in the Census of Agriculture, known as calibration, where the weights of responding blocks of fruit are adjusted within tolerance ranges of the targets was used. Before adjustment, responding wine grape blocks had weights of one; after adjustment the average wine grape weight was 1.05 with a maximum weight of 2.94. This means, for example, that a reported ten acre block of Chardonnay grapes containing 8250 vines might have received a weight of, say, 1.2. After weighting, the block of fruit would have contributed 12 acres and 9,900 vines to the published totals.

This report includes data for the two newest AVA's – Snipes Mountain AVA and Lake Chelan AVA. A few areas of the state are not included in an AVA. For example, wine grape growing areas near the Columbia Gorge AVA and in the Stevens county area. The total acreage outside an established AVA is relatively small and these areas were collapsed into the Columbia Valley AVA.

The Walla Walla and Columbia Gorge AVA's include parts of Oregon. The data in this report detail the Washington portions of these AVA's. For Oregon data see the companion publication on NASS's , Oregon Field Office website.

New for 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. In addition, respondents were asked to provide the total acres certified in a Food Safety GAP program. The reported acres totaled 67,376. No adjustments were made to this number for non-response, nor coverage. Data users should consider this number as an absolute minimum.

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

Wine Grapes: Acreage, by Variety, Historic Comparisons, Washington, January 1, 1993-2011

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

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Wine Grapes: Acres by Variety and American Viticultural Area, Washington, 2011

Variety	American Viticultural Area					
	Columbia Gorge	Columbia Valley	Horse Heaven Hills	Lake Chelan	Puget Sound	Rattlesnake Hills
	(acres)	(acres)	(acres)	(acres)	(acres)	(acres)
<b>White varieties</b>						
Chardonnay .....	82	1,331	1,771	13	-	118
Chenin Blanc .....	-	-	-	-	-	8
Gewurtztraminer .....	73	96	-	28	-	-
Muscat Canelli .....	-	71	-	-	-	-
Pinot Gris .....	68	248	138	12	9	46
Rousanne .....	-	8	18	-	-	6
Sauvignon Blanc .....	-	171	492	3	-	-
Semillon .....	-	21	-	-	-	7
Viognier .....	-	62	88	15	-	27
White Riesling .....	22	1,140	875	43	4	451
Other white .....	-	9	2	-	46	13
<b>Total white varieties .....</b>	<b>251</b>	<b>3,158</b>	<b>3,606</b>	<b>121</b>	<b>70</b>	<b>706</b>
<b>Red varieties</b>						
Barbera .....	-	-	18	-	-	-
Cabernet Franc .....	-	174	264	4	-	65
Cabernet Sauvignon .....	-	1,749	3,320	7	-	292
Grenache .....	-	17	127	-	-	-
Lemberger .....	-	-	20	-	-	-
Malbec .....	3	59	104	3	-	13
Merlot .....	20	1,449	2,047	-	-	367
Mouvedre .....	-	18	50	-	-	3
Petit Verdot .....	-	25	86	-	-	19
Pinot Noir .....	42	35	-	42	83	-
Sangiovese .....	-	29	34	5	-	6
Syrah .....	-	638	756	36	-	76
Tempranillo .....	5	6	-	-	-	5
Zinfandel .....	-	-	16	-	-	14
Other red .....	35	62	123	-	19	18
<b>Total red varieties .....</b>	<b>143</b>	<b>4,311</b>	<b>6,978</b>	<b>125</b>	<b>109</b>	<b>892</b>
<b>All varieties .....</b>	<b>394</b>	<b>7,469</b>	<b>10,584</b>	<b>247</b>	<b>178</b>	<b>1,599</b>

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Wine Grapes: Acres by Variety and American Viticultural Area, Washington, 2011

Variety	American Viticultural Area					
	Red Mountain	Snipes Mountain	Wahluke Slope	Walla Walla Valley	Yakima Valley	Washington
	(acres)	(acres)	(acres)	(acres)	(acres)	(acres)
<b>White varieties</b>						
Chardonnay .....	-	148	984	27	3,157	7,654
Chenin Blanc .....	-	-	18	-	54	207
Gewurtztraminer .....	-	-	120	-	389	775
Muscat Canelli .....	-	-	-	-	73	177
Pinot Gris .....	-	-	-	-	855	1,576
Rousanne .....	-	-	-	-	22	65
Sauvignon Blanc .....	18	-	41	-	421	1,173
Semillon .....	20	-	-	19	99	222
Viognier .....	10	-	24	20	111	390
White Riesling .....	-	70	851	-	2,858	6,320
Other white .....	-	-	21	-	31	293
<b>Total white varieties .....</b>	<b>92</b>	<b>325</b>	<b>2,218</b>	<b>235</b>	<b>8,070</b>	<b>18,851</b>
<b>Red varieties</b>						
Barbera .....	-	-	18	-	5	70
Cabernet Franc .....	42	-	138	76	197	972
Cabernet Sauvignon .....	672	142	1,900	524	1,678	10,293
Grenache .....	8	-	41	-	62	261
Lemberger .....	-	-	-	-	26	73
Malbec .....	19	-	107	18	47	378
Merlot .....	184	111	1,540	201	2,298	8,235
Mouvedre .....	12	-	49	-	32	165
Petit Verdot .....	19	-	86	33	34	301
Pinot Noir .....	-	-	-	-	78	307
Sangiovese .....	12	-	36	12	50	185
Syrah .....	173	78	427	165	728	3,103
Tempranillo .....	-	-	17	13	35	94
Zinfandel .....	-	-	-	-	12	89
Other red .....	22	-	49	18	103	472
<b>Total red varieties .....</b>	<b>1,182</b>	<b>380</b>	<b>4,427</b>	<b>1,069</b>	<b>5,382</b>	<b>24,998</b>
<b>All varieties .....</b>	<b>1,273</b>	<b>704</b>	<b>6,645</b>	<b>1,304</b>	<b>13,452</b>	<b>43,849</b>

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Wine Grapes: Vines by Variety and American Viticultural Area, Washington, 2011

Variety	American Viticultural Area					
	Columbia Gorge	Columbia Valley	Horse Heaven Hills	Lake Chelan	Puget Sound	Rattlesnake Hills
	(vines)	(vines)	(vines)	(vines)	(vines)	(vines)
<b>White varieties</b>						
Chardonnay .....	53,414	1,191,207	1,596,600	14,855	-	106,209
Chenin Blanc .....	-	-	-	-	-	9,132
Gewurtztraminer .....	45,613	76,304	-	35,359	-	-
Muscat Canelli .....	-	45,545	-	-	-	-
Pinot Gris .....	41,425	244,615	134,886	14,674	13,739	43,726
Rousanne .....	-	11,208	15,355	-	-	5,057
Sauvignon Blanc .....	-	117,967	393,836	3,012	100	-
Semillon .....	-	18,016	-	-	-	7,830
Viognier .....	-	51,260	73,660	16,015	-	22,998
White Riesling .....	27,969	870,074	815,970	55,157	4,474	430,860
Other white .....	-	12,350	1,485	-	66,841	13,591
<b>Total white varieties .....</b>	<b>175,492</b>	<b>2,639,635</b>	<b>3,199,662</b>	<b>145,825</b>	<b>96,164</b>	<b>670,092</b>
<b>Red varieties</b>						
Barbera .....	-	-	16,062	-	-	-
Cabernet Franc .....	-	174,030	234,858	3,704	-	67,251
Cabernet Sauvignon .....	-	1,466,031	2,950,215	7,794	-	280,020
Grenache .....	-	14,402	130,998	-	-	-
Lemberger .....	-	-	16,189	-	-	-
Malbec .....	3,106	57,159	104,011	2,967	-	14,487
Merlot .....	14,252	1,423,713	1,725,973	-	-	386,793
Mouvedre .....	-	16,934	44,351	-	-	2,821
Petit Verdot .....	-	21,494	87,856	-	-	18,865
Pinot Noir .....	45,513	36,594	-	48,665	114,514	-
Sangiovese .....	-	25,936	38,878	5,509	-	5,629
Syrah .....	-	576,465	675,493	42,923	-	71,303
Tempranillo .....	5,101	4,568	-	-	-	4,845
Zinfandel .....	-	-	12,909	-	-	17,799
Other red .....	31,238	71,923	110,226	-	27,089	15,977
<b>Total red varieties .....</b>	<b>132,006</b>	<b>3,930,034</b>	<b>6,159,307</b>	<b>146,986</b>	<b>148,246</b>	<b>897,182</b>
<b>All varieties .....</b>	<b>307,498</b>	<b>6,569,669</b>	<b>9,358,969</b>	<b>292,811</b>	<b>244,410</b>	<b>1,567,274</b>

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Variety	American Viticultural Area					
	Red Mountain	Snipes Mountain	Wahluke Slope	Walla Walla Valley	Yakima Valley	Washington
	(vines)	(vines)	(vines)	(vines)	(vines)	(vines)
<b>White varieties</b>						
Chardonnay .....	-	65,988	966,909	23,812	2,596,547	6,635,887
Chenin Blanc .....	-	-	17,487	-	31,886	151,278
Gewurtztraminer .....	-	-	145,588	-	328,111	682,512
Muscat Canelli .....	-	-	-	-	66,523	141,587
Pinot Gris .....	-	-	-	-	757,987	1,408,057
Rousanne .....	-	-	-	-	20,613	61,028
Sauvignon Blanc .....	17,370	-	37,163	-	349,969	942,714
Semillon .....	17,810	-	-	20,709	67,372	175,206
Viognier .....	12,218	-	22,664	19,414	97,894	324,952
White Riesling .....	-	22,010	867,750	-	2,454,371	5,554,693
Other white .....	-	-	19,354	-	26,272	305,115
<b>Total white varieties .....</b>	<b>78,226</b>	<b>119,406</b>	<b>2,230,971</b>	<b>230,011</b>	<b>6,797,545</b>	<b>16,383,029</b>
<b>Red varieties</b>						
Barbera .....	-	-	16,246	-	3,453	65,840
Cabernet Franc .....	47,006	-	121,528	73,997	190,555	916,850
Cabernet Sauvignon .....	790,249	45,003	1,864,767	523,528	1,498,814	9,432,767
Grenache .....	9,023	-	40,333	-	57,878	259,207
Lemberger .....	-	-	-	-	18,787	61,576
Malbec .....	24,081	-	101,340	19,316	40,725	368,450
Merlot .....	192,270	35,433	1,457,597	203,372	1,985,260	7,447,910
Mouvedre .....	12,962	-	46,693	-	32,284	156,915
Petit Verdot .....	22,738	-	83,103	29,712	33,341	297,109
Pinot Noir .....	-	-	-	-	63,542	326,523
Sangiovese .....	17,970	-	47,950	10,972	41,129	193,973
Syrah .....	226,741	25,043	402,155	154,864	654,537	2,853,156
Tempranillo .....	-	-	15,201	15,209	33,896	93,313
Zinfandel .....	-	-	-	-	10,258	81,264
Other red .....	25,855	-	45,329	17,697	86,175	440,765
<b>Total red varieties .....</b>	<b>1,389,786</b>	<b>117,337</b>	<b>4,262,022</b>	<b>1,062,078</b>	<b>4,750,634</b>	<b>22,995,618</b>
<b>All varieties .....</b>	<b>1,468,012</b>	<b>236,743</b>	<b>6,492,993</b>	<b>1,292,089</b>	<b>11,548,179</b>	<b>39,378,647</b>

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Wine Grapes: Vines per Acre by Variety and American Viticultural Area, Washington, 2011

Variety	American Viticultural Area					
	Columbia Gorge	Columbia Valley	Horse Heaven Hills	Lake Chelan	Puget Sound	Rattlesnake Hills
	(vines per acre)	(vines per acre)	(vines per acre)	(vines per acre)	(vines per acre)	(vines per acre)
White varieties						
Chardonnay .....	654	895	901	1,161	-	899
Chenin Blanc .....	-	-	-	-	-	1,087
Gewurtztraminer .....	627	796	-	1,263	-	-
Muscat Canelli .....	-	643	-	-	-	-
Pinot Gris .....	614	986	977	1,213	1,598	959
Rousanne .....	-	1,384	853	-	-	803
Sauvignon Blanc .....	-	690	800	913	500	-
Semillon .....	-	866	-	-	-	1,119
Viognier .....	-	832	839	1,054	-	861
White Riesling .....	1,249	763	933	1,289	1,017	955
Other white .....	-	1,342	874	-	1,450	1,079
Total white varieties .....	700	836	887	1,203	1,382	949
Red varieties						
Barbera .....	-	-	883	-	-	-
Cabernet Franc .....	-	1,000	891	950	-	1,028
Cabernet Sauvignon .....	-	838	889	1,098	-	958
Grenache .....	-	868	1,036	-	-	-
Lemberger .....	-	-	794	-	-	-
Malbec .....	1,035	967	997	1,187	-	1,081
Merlot .....	709	983	843	-	-	1,053
Mouvedre .....	-	941	883	-	-	882
Petit Verdot .....	-	870	1,024	-	-	1,020
Pinot Noir .....	1,094	1,052	-	1,173	1,376	-
Sangiovese .....	-	888	1,140	1,080	-	880
Syrah .....	-	904	893	1,189	-	937
Tempranillo .....	1,020	801	-	-	-	1,031
Zinfandel .....	-	-	807	-	-	1,262
Other red .....	885	1,169	893	-	1,418	868
Total red varieties .....	921	912	883	1,172	1,366	1,005
All varieties .....	780	880	884	1,187	1,372	980

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Wine Grapes: Vines per Acre by Variety and American Viticultural Area, Washington, 2011

Variety	American Viticultural Area					
	Red Mountain	Snipes Mountain	Wahluke Slope	Walla Walla Valley	Yakima Valley	Washington
	(vines per acre)	(vines per acre)	(vines per acre)	(vines per acre)	(vines per acre)	(vines per acre)
<b>White varieties</b>						
Chardonnay .....	-	446	983	892	823	867
Chenin Blanc .....	-	-	972	-	587	732
Gewurtztraminer .....	-	-	1,218	-	843	881
Muscat Canelli .....	-	-	-	-	906	799
Pinot Gris .....	-	-	-	-	887	894
Rousanne .....	-	-	-	-	937	935
Sauvignon Blanc .....	949	-	900	-	831	803
Semillon .....	913	-	-	1,084	682	790
Vignier .....	1,273	-	960	996	882	833
White Riesling .....	-	314	1,020	-	859	879
Other white .....	-	-	926	-	856	1,043
<b>Total white varieties .....</b>	<b>851</b>	<b>368</b>	<b>1,006</b>	<b>979</b>	<b>842</b>	<b>869</b>
<b>Red varieties</b>						
Barbera .....	-	-	913	-	767	938
Cabernet Franc .....	1,117	-	881	979	966	943
Cabernet Sauvignon .....	1,176	318	981	999	893	916
Grenache .....	1,203	-	993	-	940	992
Lemberger .....	-	-	-	-	737	848
Malbec .....	1,274	-	949	1,073	874	975
Merlot .....	1,046	318	947	1,010	864	904
Mouvedre .....	1,098	-	951	-	1,012	952
Petit Verdot .....	1,216	-	965	909	981	989
Pinot Noir .....	-	-	-	-	818	1,063
Sangiovese .....	1,473	-	1,328	914	831	1,051
Syrah .....	1,312	322	941	941	899	920
Tempranillo .....	-	-	905	1,170	982	990
Zinfandel .....	-	-	-	-	877	909
Other red .....	1,197	-	927	1,006	835	934
<b>Total red varieties .....</b>	<b>1,176</b>	<b>309</b>	<b>963</b>	<b>994</b>	<b>883</b>	<b>920</b>
<b>All varieties .....</b>	<b>1,153</b>	<b>336</b>	<b>977</b>	<b>991</b>	<b>858</b>	<b>898</b>

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Wine Grapes: Acres by Age, by Variety, Washington, 2011

Variety	Year planted							Total
	Prior to 1991	1991-1995	1996-2000	2001-2005	2006-2007	2008-2009	2010	
	(acres)	(acres)	(acres)	(acres)	(acres)	(acres)	(acres)	(acres)
<b>White varieties</b>								
Chardonnay .....	1,779	877	3,199	222	588	572	417	7,654
Chenin Blanc .....	198	-	-	-	-	-	-	207
Gewurtztraminer .....	204	-	292	161	83	17	-	775
Muscat Canelli .....	51	-	-	110	-	-	-	177
Pinot Gris .....	26	24	359	297	675	195	-	1,576
Rousanne .....	-	-	16	16	7	24	-	65
Sauvignon Blanc .....	525	-	182	232	121	79	-	1,173
Semillon .....	144	-	37	-	11	15	-	222
Viognier .....	-	10	133	159	44	43	-	390
White Riesling .....	1,633	123	494	2,031	1,438	521	82	6,320
Other white .....	15	69	134	49	11	13	-	293
<b>Total white varieties .....</b>	<b>4,578</b>	<b>1,145</b>	<b>4,850</b>	<b>3,286</b>	<b>2,983</b>	<b>1,490</b>	<b>519</b>	<b>18,851</b>
<b>Red varieties</b>								
Barbera .....	-	-	17	36	12	-	-	70
Cabernet Franc .....	81	103	448	214	92	22	14	972
Cabernet Sauvignon .....	1,710	625	3,866	1,178	1,400	1,094	420	10,293
Grenache .....	-	-	11	44	99	56	-	261
Lemberger .....	20	-	38	-	-	-	-	73
Malbec .....	3	21	70	110	84	54	36	378
Merlot .....	1,547	1,654	2,369	811	966	770	119	8,235
Mouvedre .....	-	-	-	69	57	34	-	165
Petit Verdot .....	-	8	11	151	101	28	-	301
Pinot Noir .....	91	-	70	81	34	16	-	307
Sangiovese .....	-	14	66	65	24	15	-	185
Syrah .....	132	97	1,566	975	255	68	10	3,103
Tempranillo .....	-	10	-	-	27	22	-	94
Zinfandel .....	-	-	23	41	16	-	-	89
Other red .....	38	7	34	170	149	69	7	472
<b>Total red varieties .....</b>	<b>3,684</b>	<b>2,555</b>	<b>8,605</b>	<b>3,974</b>	<b>3,313</b>	<b>2,254</b>	<b>613</b>	<b>24,998</b>
<b>All varieties .....</b>	<b>8,263</b>	<b>3,699</b>	<b>13,455</b>	<b>7,260</b>	<b>6,297</b>	<b>3,744</b>	<b>1,133</b>	<b>43,849</b>

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Wine Grapes: Vines by Age, by Variety, Washington, 2011

Variety	Year planted							Total
	Prior to 1991	1991-1995	1996-2000	2001-2005	2006-2007	2008-2009	2010	
	(vines)	(vines)	(vines)	(vines)	(vines)	(vines)	(vines)	(vines)
<b>White varieties</b>								
Chardonnay .....	1,285,856	699,976	2,881,998	171,712	576,850	570,263	449,232	6,635,887
Chenin Blanc .....	141,037	-	-	-	-	-	-	151,278
Gewurtztraminer .....	154,880	-	253,712	135,811	105,367	19,031	-	682,512
Muscat Canelli .....	32,043	-	-	90,575	-	-	-	141,587
Pinot Gris .....	19,526	18,363	265,465	287,737	629,582	187,202	-	1,408,057
Roussanne .....	-	-	12,578	18,602	6,292	21,723	-	61,028
Sauvignon Blanc .....	371,895	-	179,135	188,673	97,427	77,346	-	942,714
Semillon .....	97,730	-	34,907	-	9,617	18,367	-	175,206
Vignier .....	-	6,594	114,397	117,849	40,571	44,330	-	324,952
White Riesling .....	1,193,351	89,357	435,968	1,921,752	1,373,267	459,558	81,440	5,554,693
Other white .....	19,233	70,541	142,046	50,198	10,561	12,161	-	305,115
<b>Total white varieties.....</b>	<b>3,317,973</b>	<b>918,782</b>	<b>4,325,046</b>	<b>2,991,501</b>	<b>2,856,644</b>	<b>1,423,723</b>	<b>549,360</b>	<b>16,383,029</b>
<b>Red varieties</b>								
Barbera.....	-	-	13,917	34,412	12,366	-	-	65,840
Cabernet Franc .....	53,036	97,713	431,456	194,601	96,649	24,905	18,490	916,850
Cabernet Sauvignon.....	1,228,998	555,926	3,492,841	1,188,812	1,408,699	1,155,738	401,753	9,432,767
Grenache.....	-	-	9,434	37,144	108,301	57,801	-	259,207
Lemberger .....	14,639	-	32,017	-	-	-	-	61,576
Malbec.....	2,469	16,448	68,411	96,330	92,692	57,797	34,303	368,450
Merlot .....	1,260,997	1,409,121	2,160,824	741,727	983,921	764,547	126,773	7,447,910
Mouvedre .....	-	-	-	62,367	55,787	34,752	-	156,915
Petit Verdot.....	-	5,282	9,956	142,495	104,611	31,375	-	297,109
Pinot Noir.....	72,252	-	72,825	121,697	34,131	15,661	-	326,523
Sangiovese.....	-	11,033	63,727	72,470	27,674	17,869	-	193,973
Syrah .....	112,504	70,720	1,330,555	921,705	332,331	73,667	11,674	2,853,156
Tempranillo.....	-	9,291	-	-	24,388	22,299	-	93,313
Zinfandel.....	-	-	21,195	31,503	16,003	-	-	81,264
Other red .....	29,964	4,348	28,473	150,882	146,800	74,562	5,736	440,765
<b>Total red varieties.....</b>	<b>2,834,944</b>	<b>2,193,578</b>	<b>7,752,199</b>	<b>3,826,885</b>	<b>3,444,353</b>	<b>2,338,356</b>	<b>605,303</b>	<b>22,995,618</b>
<b>All varieties .....</b>	<b>6,152,917</b>	<b>3,112,360</b>	<b>12,077,245</b>	<b>6,818,386</b>	<b>6,300,997</b>	<b>3,762,079</b>	<b>1,154,663</b>	<b>39,378,647</b>

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Wine Grapes: Vines per Acre by Age, by Variety, Washington, 2011

Variety	Year planted							Total
	Prior to 1991	1991-1995	1996-2000	2001-2005	2006-2007	2008-2009	2010	
	(vines per acre)	(vines per acre)	(vines per acre)	(vines per acre)	(vines per acre)	(vines per acre)	(vines per acre)	(vines per acre)
<b>White varieties</b>								
Chardonnay .....	723	798	901	773	982	996	1,078	867
Chenin Blanc .....	713	-	-	-	-	-	-	732
Gewurtztraminer .....	759	-	870	842	1,266	1,094	-	881
Muscat Canelli .....	626	-	-	825	-	-	-	799
Pinot Gris .....	766	759	740	969	933	958	-	894
Roussanne .....	-	-	801	1,155	899	905	-	935
Sauvignon Blanc .....	708	-	984	814	805	984	-	803
Semillon .....	677	-	941	-	859	1,258	-	790
Viognier .....	-	666	863	740	933	1,026	-	833
White Riesling .....	731	726	883	946	955	882	996	879
Other white .....	1,249	1,016	1,057	1,024	935	943	-	1,043
<b>Total white varieties .....</b>	<b>725</b>	<b>803</b>	<b>892</b>	<b>910</b>	<b>958</b>	<b>956</b>	<b>1,058</b>	<b>869</b>
<b>Red varieties</b>								
Barbera .....	-	-	843	953	1,075	-	-	938
Cabernet Franc .....	657	953	962	911	1,053	1,153	1,350	943
Cabernet Sauvignon .....	719	890	903	1,009	1,006	1,056	957	916
Grenache .....	-	-	858	837	1,100	1,041	-	992
Lemberger .....	743	-	836	-	-	-	-	848
Malbec .....	796	802	975	878	1,098	1,076	948	975
Merlot .....	815	852	912	915	1,018	993	1,066	904
Mouvedre .....	-	-	-	908	984	1,025	-	952
Petit Verdot .....	-	704	948	943	1,039	1,141	-	989
Pinot Noir .....	791	-	1,045	1,508	1,007	1,010	-	1,063
Sangiovese .....	-	805	960	1,124	1,163	1,176	-	1,051
Syrah .....	851	731	850	946	1,305	1,080	1,167	920
Tempranillo .....	-	920	-	-	900	1,028	-	990
Zinfandel .....	-	-	910	766	1,032	-	-	909
Other red .....	799	649	847	890	987	1,082	856	934
<b>Total red varieties .....</b>	<b>769</b>	<b>859</b>	<b>901</b>	<b>963</b>	<b>1,040</b>	<b>1,038</b>	<b>987</b>	<b>920</b>
<b>All varieties .....</b>	<b>745</b>	<b>841</b>	<b>898</b>	<b>939</b>	<b>1,001</b>	<b>1,005</b>	<b>1,020</b>	<b>898</b>

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Wine Grapes: Acres by Age and American Viticultural Area, Washington, 2011

American Viticultural Area (AVA)	Year planted							Total
	Prior to 1991	1991-1995	1996-2000	2001-2005	2006-2007	2008-2009	2010	
	(acres)	(acres)	(acres)	(acres)	(acres)	(acres)	(acres)	(acres)
Columbia Gorge .....	45	30	52	233	20	-	-	394
Columbia Valley .....	1,816	661	2,587	855	776	668	106	7,469
Horse Heaven Hills.....	1,795	727	2,929	1,435	2,208	1,025	465	10,584
Lake Chelan .....	-	-	30	161	47	9	-	247
Puget Sound.....	26	6	65	51	17	13	1	178
Rattlesnake Hills.....	514	224	256	344	67	191	2	1,599
Red Mountain .....	191	-	276	204	231	262	-	1,273
Snipes Mountain.....	431	-	218	-	-	-	-	704
Wahluke Slope .....	736	293	2,157	1,308	1,126	831	195	6,645
Walla Walla Valley.....	44	111	690	235	106	-	-	1,304
Yakima Valley.....	2,664	1,556	4,193	2,389	1,702	706	243	13,452
Washington .....	8,263	3,699	13,455	7,260	6,297	3,744	1,133	43,849

Wine Grapes: Vines by Age and American Viticultural Area, Washington, 2011

American Viticultural Area (AVA)	Year planted							Total
	Prior to 1991	1991-1995	1996-2000	2001-2005	2006-2007	2008-2009	2010	
	(vines)	(vines)	(vines)	(vines)	(vines)	(vines)	(vines)	(vines)
Columbia Gorge .....	41,596	24,538	30,916	174,903	22,327	-	-	307,498
Columbia Valley .....	1,285,731	630,492	2,274,533	788,629	826,283	664,377	99,624	6,569,669
Horse Heaven Hills.....	1,308,489	579,209	2,601,389	1,205,466	2,209,640	1,005,590	449,186	9,358,969
Lake Chelan .....	-	-	38,693	196,644	48,328	9,146	-	292,811
Puget Sound.....	39,213	10,089	76,365	92,876	14,694	10,362	811	244,410
Rattlesnake Hills.....	506,555	211,210	246,057	350,143	63,916	187,208	2,185	1,567,274
Red Mountain .....	152,764	-	255,944	211,449	390,073	324,614	-	1,468,012
Snipes Mountain.....	108,559	-	109,765	-	-	-	-	236,743
Wahluke Slope .....	576,910	250,712	1,981,485	1,413,359	1,168,627	866,759	235,141	6,492,993
Walla Walla Valley.....	31,352	94,870	692,646	215,970	107,633	-	-	1,292,089
Yakima Valley.....	2,101,748	1,195,730	3,769,452	2,157,791	1,449,476	651,088	222,894	11,548,179
Washington .....	6,152,917	3,112,360	12,077,245	6,818,386	6,300,997	3,762,079	1,154,663	39,378,647

Wine Grapes: Vines per Acre by Age and American Viticultural Area, Washington, 2011

American Viticultural Area (AVA)	Year planted							Total
	Prior to 1991	1991-1995	1996-2000	2001-2005	2006-2007	2008-2009	2010	
	(vines per acre)	(vines per acre)	(vines per acre)	(vines per acre)	(vines per acre)	(vines per acre)	(vines per acre)	(vines per acre)
Columbia Gorge .....	916	807	596	750	1,145	-	-	780
Columbia Valley .....	708	954	879	923	1,065	995	944	880
Horse Heaven Hills.....	729	796	888	840	1,001	981	965	884
Lake Chelan .....	-	-	1,281	1,221	1,039	1,028	-	1,187
Puget Sound.....	1,514	1,770	1,171	1,825	869	810	1,159	1,372
Rattlesnake Hills.....	985	942	960	1,018	961	979	950	980
Red Mountain .....	802	-	926	1,038	1,692	1,240	-	1,153
Snipes Mountain.....	252	-	504	-	-	-	-	336
Wahluke Slope .....	784	855	919	1,081	1,038	1,043	1,206	977
Walla Walla Valley.....	706	858	1,003	918	1,020	-	-	991
Yakima Valley.....	789	769	899	903	852	922	918	858
Washington .....	745	841	898	939	1,001	1,005	1,020	898

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Wine Grapes: Acres by Variety and County, Washington, 2011

Variety	Benton (acres)	Chelan (acres)	Clark (acres)	Franklin (acres)	Grant (acres)	Klickitat (acres)	Okanagan (acres)
<b>White varieties</b>							
Chardonnay.....	4,188	19	5	438	1,421	591	-
Chenin Blanc.....	142	-	-	-	-	-	-
Gewurtztraminer.....	255	25	2	33	121	19	11
Muscat Canelli.....	50	-	-	-	-	50	-
Pinot Gris.....	739	20	4	40	283	73	-
Rousanne.....	20	-	-	-	8	17	-
Sauvignon Blanc.....	691	-	-	136	37	201	4
Semillon.....	134	-	-	-	-	-	-
Viognier.....	97	12	-	19	24	89	-
White Riesling.....	3,322	38	4	297	1,042	140	15
Other white <sup>1</sup> .....	22	7	-	-	-	3	-
<b>Total white varieties.....</b>	<b>9,660</b>	<b>124</b>	<b>18</b>	<b>981</b>	<b>2,971</b>	<b>1,191</b>	<b>45</b>
<b>Red varieties</b>							
Barbera.....	6	-	-	-	18	28	-
Cabernet Franc.....	278	8	-	46	177	230	-
Cabernet Sauvignon.....	3,394	16	-	364	2,485	2,546	-
Grenache.....	86	-	-	-	41	91	-
Lemberger.....	44	-	-	-	-	-	-
Malbec.....	108	3	-	22	108	82	-
Merlot.....	3,237	24	-	365	2,197	1,350	9
Mouvedre.....	41	-	-	-	61	44	-
Petit Verdot.....	67	-	-	-	86	72	-
Pinot Noir.....	29	31	36	-	-	-	23
Sangiovese.....	61	7	-	-	36	26	-
Syrah.....	1,117	45	-	177	699	545	-
Tempranillo.....	13	-	-	-	17	16	-
Zinfandel.....	8	-	-	-	-	40	-
Other red <sup>1</sup> .....	124	13	2	-	25	114	-
<b>Total red varieties.....</b>	<b>8,613</b>	<b>162</b>	<b>44</b>	<b>1,012</b>	<b>5,998</b>	<b>5,207</b>	<b>39</b>
<b>All varieties.....</b>	<b>18,273</b>	<b>286</b>	<b>62</b>	<b>1,993</b>	<b>8,969</b>	<b>6,398</b>	<b>83</b>

<sup>1</sup> Other varieties include varieties with minimal acreage, unknown varieties, or varieties not published to avoid disclosure of individual operations.

Wine Grapes: Acres by Variety and County, Washington, 2011

Variety	San Juan	Skagit	Skamania	Stevens	Walla Walla	Yakima	Washington
	(acres)	(acres)	(acres)	(acres)	(acres)	(acres)	(acres)
<b>White varieties</b>							
Chardonnay .....	-	-	75	-	31	875	7,654
Chenin Blanc .....	-	-	-	-	-	38	207
Gewurtztraminer .....	-	-	-	-	-	256	775
Muscat Canelli .....	-	-	-	-	-	72	177
Pinot Gris .....	-	-	33	-	-	369	1,576
Rousanne .....	-	-	-	-	-	18	65
Sauvignon Blanc .....	-	-	-	-	-	98	1,173
Semillon .....	-	-	-	-	26	55	222
Viognier .....	-	-	-	-	16	126	390
White Riesling .....	-	-	-	-	-	1,413	6,320
Other white <sup>1</sup> .....	12	6	-	-	-	28	293
<b>Total white varieties .....</b>	<b>12</b>	<b>8</b>	<b>171</b>	<b>-</b>	<b>248</b>	<b>3,348</b>	<b>18,851</b>
<b>Red varieties</b>							
Barbera .....	-	-	-	-	-	8	70
Cabernet Franc .....	-	-	-	-	74	142	972
Cabernet Sauvignon .....	-	-	-	-	530	923	10,293
Grenache .....	-	-	-	-	-	41	261
Lemberger .....	-	-	-	-	-	8	73
Malbec .....	-	-	-	-	17	34	378
Merlot .....	-	-	-	-	210	826	8,235
Mouvedre .....	-	-	-	-	-	18	165
Petit Verdot .....	-	-	-	-	32	29	301
Pinot Noir .....	-	28	12	-	-	69	307
Sangiovese .....	-	-	-	-	12	35	185
Syrah .....	-	-	-	-	163	350	3,103
Tempranillo .....	-	-	-	-	13	30	94
Zinfandel .....	-	-	-	-	-	26	89
Other red <sup>1</sup> .....	-	-	-	8	18	107	472
<b>Total red varieties .....</b>	<b>2</b>	<b>28</b>	<b>25</b>	<b>-</b>	<b>1,079</b>	<b>2,646</b>	<b>24,998</b>
<b>All varieties .....</b>	<b>14</b>	<b>36</b>	<b>195</b>	<b>11</b>	<b>1,327</b>	<b>5,994</b>	<b>43,849</b>

<sup>1</sup> Other varieties include varieties with minimal acreage, unknown varieties, or varieties not published to avoid disclosure of individual operations.

Wine Grapes: Total Acres by County,  
Washington, 2011

County	Total Acres <sup>1</sup> (acres)
Adams .....	-
Asotin .....	-
Benton .....	18,273
Chelan .....	286
Clallam .....	-
Clark .....	62
Columbia .....	-
Cowlitz .....	-
Douglas .....	-
Ferry .....	-
Franklin .....	1,993
Garfield .....	-
Grant .....	8,969
Grays Harbor .....	-
Island .....	17
Jefferson .....	-
King .....	-
Kitsap .....	-
Kittitas .....	17
Klickitat .....	6,398

<sup>1</sup> Total acres not published represent counties with no acreage or counties with minimal acreage that were not published to avoid disclosure of individual operations.

Wine Grapes: Total Acres by County,  
Washington, 2011

County	Total Acres <sup>1</sup> (acres)
Lewis.....	-
Lincoln .....	-
Mason .....	-
Okanogan .....	83
Pacific .....	-
Pend Oreille .....	-
Pierce.....	-
San Juan.....	14
Skagit.....	36
Skamania.....	195
Snohomish.....	-
Spokane.....	8
Stevens.....	11
Thurston.....	-
Wahkiakum .....	-
Walla Walla.....	1,327
Whatcom.....	-
Whitman.....	-
Yakima.....	5,994
Washington.....	43,849

<sup>1</sup> Total acres not published represent counties with no acreage or counties with minimal acreage that were not published to avoid disclosure of individual operations.

Juice Grapes: Acres, Vines, Vines per Acre by Year Planted, Washington, 2011

Variety	Year Planted							Total
	Prior to 1991	1991-1995	1996-2000	2001-2005	2006-2007	2008-2009	2010	
Concord.....acres	16,757	1,746	2,041	2,470	-	360	450	25,068
vines	11,551,438	1,223,291	1,566,106	1,947,398	-	317,016	396,460	18,105,711
vines per acre	689	701	768	788	-	881	880	722
Niagara.....acres	557	75	302	162	-	-	-	1,101
vines	382,677	46,047	233,900	118,394	-	-	-	784,998
vines per acre	688	618	774	733	-	-	-	713
Total.....acres	17,314	1,821	2,343	2,632	1,250	360	450	26,169
vines	11,934,115	1,269,338	1,800,006	2,065,792	1,107,982	317,016	396,460	18,890,709
vines per acre	689	697	768	785	886	881	880	722

( - ) Data withheld for one or more of the following reasons: avoid disclosing data for individual farm, no data reported, or specific variety was not published in previous reports.

Grapes: Organic and Transition Acres, by Variety, Washington, January 1, 2011

Variety	Certified (acres)	Transition (acres)
Wine Grapes		
White Varieties:		
Chardonnay.....	173	-
Gewurtraminer.....	15	-
Other white varieties <sup>1</sup> .....	229	-
Total white varieties.....	417	-
Red Varieties:		
Cabernet Franc.....	12	-
Cabernet Sauvignon.....	187	-
Malbec.....	8	-
Merlot.....	126	-
Petit Verdot.....	13	-
Pinot Noir.....	10	-
Syrah.....	63	-
Other red varieties <sup>1</sup> .....	14	-
Total red varieties.....	433	-
All Wine Grapes.....	850	70
Juice Grapes		
Concord.....	1,513	57
Niagara.....	89	-
All Juice Grapes.....	1,602	57

<sup>1</sup> Other varieties include varieties with minimal acreage, unknown varieties, or varieties not published to avoid disclosure of individual operations.  
 ( - ) Data withheld for one or more of the following reasons: avoid disclosing data for individual farm, no data reported, or specific variety was not published in previous reports.

## Intentions for 2011 and the Next Five Years

Grape producers were asked for their intentions to topwork, remove, or plant each of the fruit crops in 2011 and their intentions in the next five years. For all vineyards, there were 36 reports to remove acreage, and 88 reports to put in new plantings in 2011. Between now and 2016, there were 41 reports to remove acreage, and 129 reports of new planting intentions. Many producers indicated in comments that they were unsure of their one year and five year intentions at the time of the survey. A few larger firms that supplied acreage information did not provide a response to the intentions questions. No adjustments were made for those not responding or unsure of their intentions. Data users should evaluate the intentions information considering the factors mentioned above and consider the data shown minimum amounts.

### Grapes: Future Acreage Intentions, Washington, January 1, 2011

Fruit	Intentions to remove or plant acreage			
	Intentions for 2011		Intentions for 2011-2016	
	Remove	New plantings	Remove	New plantings
	(acres)	(acres)	(acres)	(acres)
Wine Grapes	100	999	177	3,319
Juice Grapes	100	280	216	740

### Grapes: Production Not Harvested, Washington, January 1, 2011

Fruit	Quantity of grapes not harvested in 2010 due to:			
	Bird/Animal loss	Disease loss	Weather loss	Economic reasons
	(tons)	(tons)	(tons)	(tons)
Wine Grapes	351	1,916	556	93
Juice Grapes	146	5,029	9	318



# Grape & Tree Fruit Acreage Inventory by Variety Study January 1, 2011

Information is being gathered for an inventory of Washington fruit acreage by variety and rootstock as of January 1, 2011. Your voluntary response is needed for accurate estimates. All reports will be kept confidential. Survey results will be published and available to you on Internet or by mail.

**Washington Field Office**  
P.O. Box 609  
112 Henry St NE  
Olympia, WA 98507-0609  
Phone (800)435-5883, Fax(800)265-6275  
[nass-wa@nass.usda.gov](mailto:nass-wa@nass.usda.gov)

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

1. Is the operation listed on the label known by any OTHER NAME?  
( ) NO ( ) YES - Secondary Name(s) \_\_\_\_\_

Office Use	
Segment	Tract
801	802

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, 2011

	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	_____
7. Total acres certified in a Food Safety GAP program (eg. USDA GAP, GlobalG.A.P, SQF)?	200	_____

### SUMMARY OF GRAPE & TREE FRUIT ACREAGE – JANUARY 1, 2011

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

TREE FRUIT	TOTAL ACRES (Tenths)	TREE FRUIT	TOTAL ACRES (Tenths)
Apples	204 _____	Nectarines	211 _____
Pears, Bartlett	205 _____	Plums/Prunes	212 _____
Pears, Winter	206 _____	Pluots	216 _____
Cherries, Sweet	207 _____	<b>GRAPES</b>	
Cherries, Tart	208 _____	Grapes, Wine	213 _____
Apricots	209 _____	Grapes, Juice	214 _____
Peaches	210 _____	Grapes, Table	215 _____

9. 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 COUNTY, BLOCK NAME, FRUIT TYPE, VARIETY, ROOTSTOCK (only for apples, cherries, and pears), YEAR PLANTED OR TOPWORKED, and AMERICAN VITICULTURAL AREA (for Wine Grapes). The reference date is January 1, 2011.

(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, rootstock (for apples, cherries, and pears), and year planted or topworked.

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

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

(Column 9) For apples, pears, and cherries, record the rootstock code.

(Column 10) Enter the year code of planting or year topworked for each line.

(Column 11) Record the acres of fruit (excluding roads, waste areas, abandoned orchards/vineyards) to the nearest tenth acre.

(Columns 12-13) Record the number of certified organic acres and transition to organic acres.

(Columns 14-15) 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 16-18) Provide this information only if the number of trees/vines in columns 14 and 15 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  <i>Office Use Only</i>	4 Fruit Type	5 Fruit Code  <i>Office Use Only</i>	6 Variety Name	7 Variety Code  <i>Office Use Only</i>	8 American Viticultural Area Code [For wine grapes, enter the most definitive code from table above.]  CODE	9 Rootstock Code [Record code only for apples, pears and cherries.]  CODE	10 Year Planted/ Topworked Code [Enter code from table above]  CODE
001			301		302		303	309	304	305
002			301		302		303	309	304	305
003			301		302		303	309	304	305
004			301		302		303	309	304	305
005			301		302		303	309	304	305
006			301		302		303	309	304	305
007			301		302		303	309	304	305
008			301		302		303	309	304	305
009			301		302		303	309	304	305
010			301		302		303	309	304	305

Fruit Type Codes for Column 5	American Viticultural Area Codes for Column 8	Rootstock Codes for Column 9	Year Codes for Column 10
420 Apples	1 Columbia Gorge	1 Dwarf	1 Prior to 1991
456 Pears, Bartlett	2 Columbia Valley	2 Semi-dwarf	2 1991-1995
457 Pear, Winter	3 Horse Heaven Hills	3 Standard	3 1996-2000
430 Cherries, Sweet	4 Puget Sound		4 2001-2005
432 Cherries, Tart	5 Rattlesnake Hills		5 2006
421 Apricots	6 Red Mountain		6 2007
450 Peaches	7 Wahluke Slope		7 2008
439 Nectarines	8 Walla Walla Valley		8 2009
449 Plums/Prunes	9 Yakima Valley		9 2010
141 Pluots	10 Snipes Mountain		
444 Grapes, Juice	11 Lake Chelan		
443 Grapes, Wine			
445 Grapes, Table			

### Operation on Label - January 1, 2011

LINE	11 Total Acres In Block (Tenths)	Organic		Number of Trees/Vines		Complete Only if Numbers of Trees/Vines are not Reported in Cols. 14 and 15			
		12 Certified Acres (Tenths)	13 Transition Acres (Tenths)	14 Number of Bearing Age Trees/Vines	15 Number of Non-Bearing Age Trees/Vines	16 Percent of Acres in Block that are of Bearing Age	17 Tree/Vine Planting Density in Block (Trees or vines/Acre)	Block Spacing	
								18 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.	



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 2011				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

FRUIT	Intentions in 2011		Intentions in the Next 5 Years		Quantity of Grapes Not Harvested in 2010 Due to:			
	Remove	New Plantings	Remove	New Plantings	Bird/Animal Loss (Tons)	Disease Loss (Tons)	Weather Loss (Tons)	Economic Reasons (Tons)
Grapes, Wine	232	272	217	220	291	294	297	288
Grapes, Juice	233	273	218	221	292	295	298	289
Grapes, Table	234	274	219	300	293	296	299	290

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  N

099

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

Office Use						
R. Unit	Response	Respondent	Mode	Enum	Eval	Date
921	9901	9902	9903	098	100	9910 MM DD YY Date: _____
S/E Name				POID for Additional Questionnaires 789		

# Respondent Booklet

## 2011 Grape and Fruit Tree 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 Kitsay  
 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

445 Grapes, Table  
 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  
 105 Braeburn  
 107 Cameo  
 109 Chehalis  
 111 Corland  
 110 Crimson Cold  
 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 -  
 (Smoother / Gibson)  
 122 Golden Supreme  
 123 Granny Smith  
 125 Gravenstein  
 127 Honeycrisp  
 129 Idared  
 130 Jazz  
 131 Jonagold  
 133 Jonathan (Ruby Jon)  
 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  
 144 Sonya  
 155 Spartan  
 160 Sport  
 157 Winesap  
 159 Winter Banana  
 161 Zester  
 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
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
312	Cristalina
332	Dnoex
314	Early Robin
328	Index
311	Lambert
313	Lapins
320	Montgomery (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
325	Stella
334	Sumleta
334	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, TABLE VARIETIES**

915	Red Flame
916	Thompson Seedless
918	All Varieties
919	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 Milot
942	Madeline Angevine
943	Madeline Sylvaner
944	Malbec
945	Marechal Fosh
946	Merlot
947	Mouvedre
948	Mueller-Thurgau
949	Muscat Canelli
950	Muscat of Alexandria
951	Muscat Ottonel
952	Nebbiolo
953	New York Muscat
954	Okanogan Riesling
955	Orange Muscat
956	Petit Verdot
957	Pinot Blanc
958	Pinot Gris
959	Pinot Noir
960	Riesling
961	Rousanne
962	Royalty
963	Sangiovese
964	Sauvignon Blanc
965	Semillon
966	Siegenerrebe
967	Souzao
968	Syrah
969	Tempranillo
970	Tinta Madeira
971	Tinto Cao
972	Touriga
973	Viognier
974	White Zinfandel
975	Zinfandel
998	Other

**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
425	Western Pride
443	Western Sweet
426	Zee Gold
498	Other
499	Not Reported

**PEACH VARIETIES**

570 Allstar  
 501 Angelus  
 571 Arctic Gern  
 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 Encore  
 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 Goldnine (Arkansas9)  
 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)  
 590 Red Freemont  
 589 Red Freemont  
 533 Red Glove  
 535 Red Haven  
 591 Red Lady  
 536 Red Top  
 592 Redglobe  
 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  
 567 Siera Lady  
 549 Sierra Gem  
 550 Snow Fire  
 551 Snow Giant  
 553 Snow King  
 555 Snowbrite  
 512 Starfire  
 557 Sugar Lady  
 559 Summer Lady  
 561 Summer Prince  
 563 Summer Sweet  
 564 Suncrest  
 554 Sweet Dream  
 526 Tiffany Rose  
 528 Veteran  
 540 White Hale  
 565 White Lady  
 567 Zee Lady  
 598 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  
 712 Kalle  
 713 Packham  
 715 Red Clapp  
 717 Seckel  
 719 Taylor Gold  
 798 Other  
 799 Not Reported

**PLUM & PRUNE VARIETIES**

801 Autumn Sweet  
 803 Black Amber  
 802 Bluefre  
 804 Castleton  
 812 Catalina  
 806 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  
 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 Prode  
 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 Haven 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

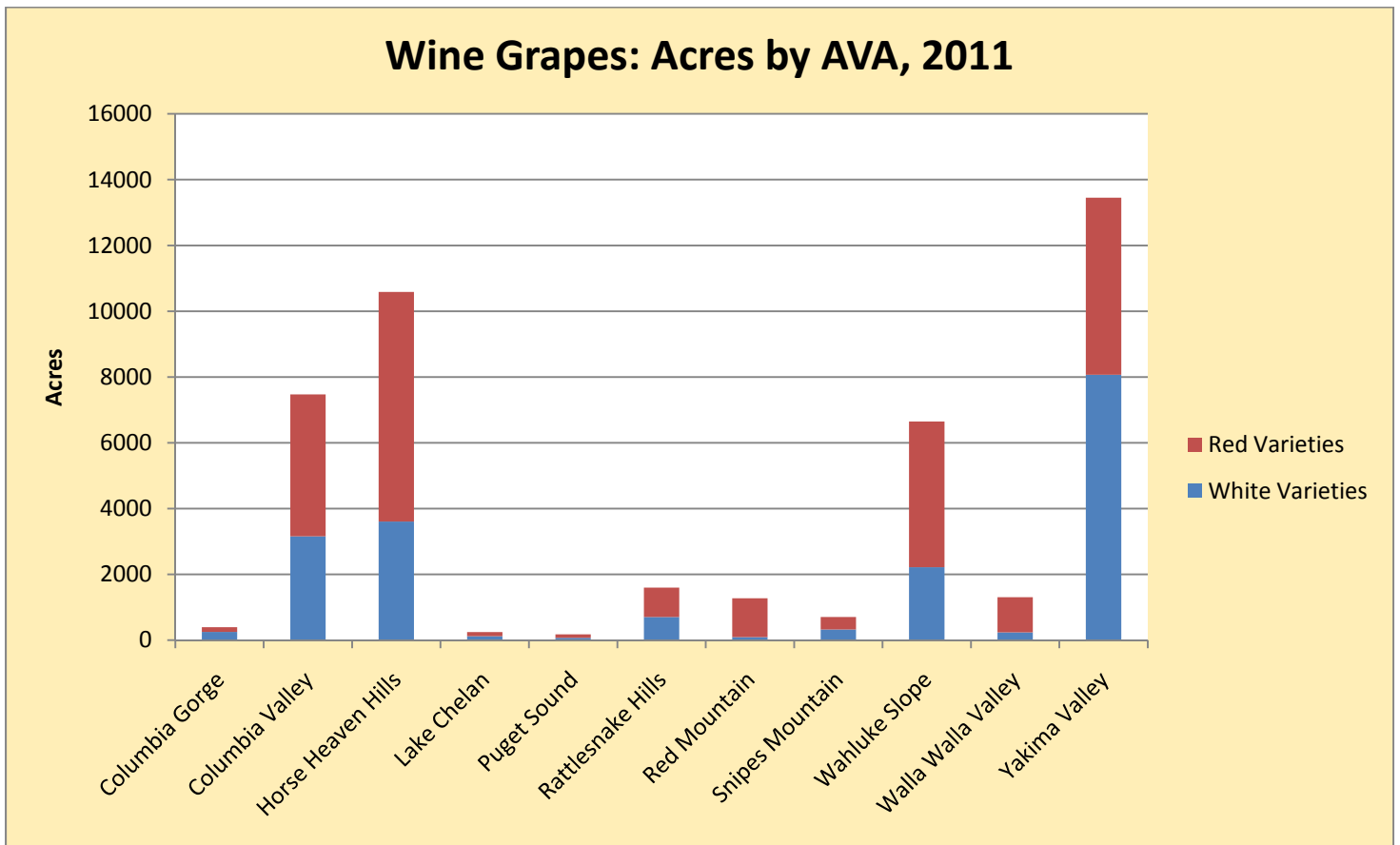
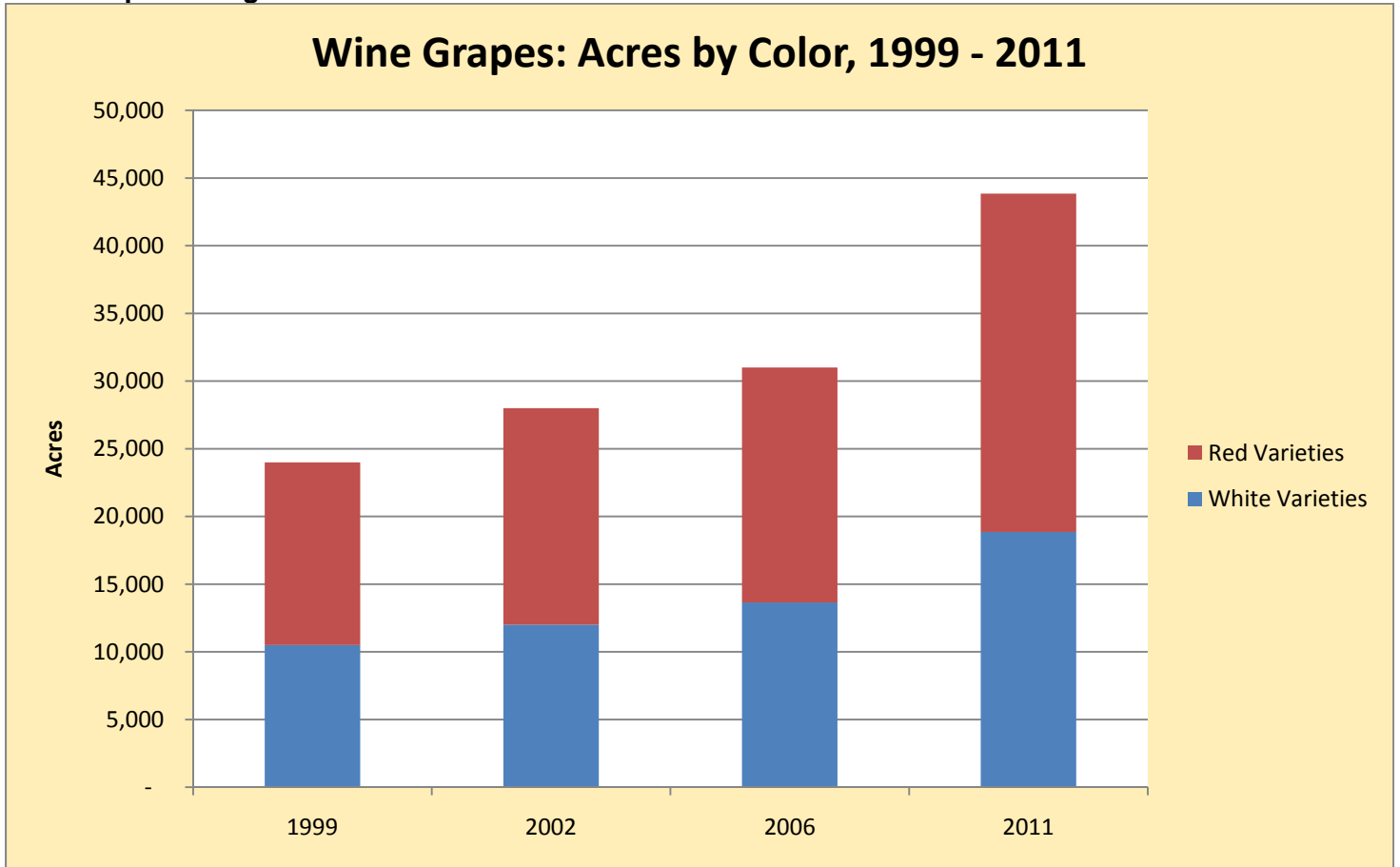
**ROOTSTOCK CODES FOR  
APPLES, PEARS AND  
CHERRIES - Column 9**

- 1 Dwarf
- 2 Semi-dwarf
- 3 Standard

**YEAR CODES - Column 10**

- 1 Prior to 1991
- 2 1991-1995
- 3 1996-2000
- 4 2001-2005
- 5 2006
- 6 2007
- 7 2008
- 8 2009
- 9 2010

**Wine Grape Acreage Charts**



**Wine Grape Acreage Charts**

