

1987

## 1987 Oregon Vineyard and Winery Report

Oregon Agricultural Statistics Service

Paul M. Williamson

Ronald F. Kriesel

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# 1987 OREGON VINEYARD AND WINERY REPORT



# 1987

## OREGON VINEYARD AND WINERY REPORT

*Compiled By*

United States Department of Agriculture,  
Oregon Agricultural Statistics Service

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*Cooperating with*

Oregon Wine Advisory Board  
Oregon Wine Growers Association  
Oregon Department of Agriculture

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Copies of this publication are available by contacting either the OREGON DEPARTMENT OF AGRICULTURE: OREGON WINE ADVISORY BOARD, 635 CAPITOL ST. NE SALEM, OR 97310-0110, (503) 378-3787, or the OREGON AGRICULTURAL STATISTICS SERVICE, 1735 FEDERAL BUILDING, 1220 SW 3rd AVE., PORTLAND, OR 97204-2899, (503) 221-2131.

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## **SURVEY OBJECTIVES**

The Oregon Agricultural Statistics Service, in cooperation with the Oregon Wine Advisory Board, the Oregon Winegrowers Association and the Oregon State Department of Agriculture, conducted the first comprehensive survey of the State's wine grape industry. The survey encompassed a complete inventory of the vineyard plantings in Oregon and a detailed summary of the 1987 crop winery production.

The 1987 Oregon Vineyard and Winery Survey had the following objectives: (1) Determine the number, characteristics, production and future plans of Oregon's commercial vineyards; (2) Determine the quantity, quality, source, disposition and value of grapes and other agricultural wine-making products crushed in Oregon wineries; (3) determine winery storage capacity and plans for the future; (4) Summarize and publish those data by variety for the state, major counties and other regions.

As the Oregon wine industry grows, it becomes increasingly important to assess resources and needs. The published data will be very useful to all segments of the wine industry — growers, vintners, manufacturing suppliers, retail outlets and exporters. This survey will serve as a source of data for decision making within the industry and as a base for follow-on surveys in future years. The published data will provide a view of future production potential, help growers develop planting plans, and aid the industry in research, marketing and promotion efforts.

## **SURVEY DESIGN AND DATA COLLECTION**

The 1987 Vineyard and Winery Survey was designed to collect data on all commercial vineyards and wineries in Oregon. The primary method of data collection was a mailed survey followed by a telephone reminder and personal interviews of operators not responding by mail.

Lists of wine grape vineyards and wineries were created from all available sources and a complete mailing was made to both lists. In addition, the vineyard questionnaire asked each operator to list names and addresses of the three nearest operators. These names were reviewed and any new operators were included in the survey. The survey accounted for 263 vineyards and 65 wineries. A complete enumeration of the lists was accomplished with excellent cooperation of about 98 percent. Data was estimated for the remaining 2 percent based on information from knowledgeable sources.

## **DATA TABULATION**

After editing the data for completeness and resolving inconsistencies, summaries by variety were obtained at the state, major counties and other region levels. Data for major producing counties or areas and state figures were published. Data for minor counties and varieties were combined to group totals to avoid disclosing any individual operators data.

Some detail questions were answered sporadically. Tables showing minor item details represent only those reporting the data and in some cases are presented as percentages of totals. For some questions only a narrative summary is presented and again reflects analysis of only those operators reporting.

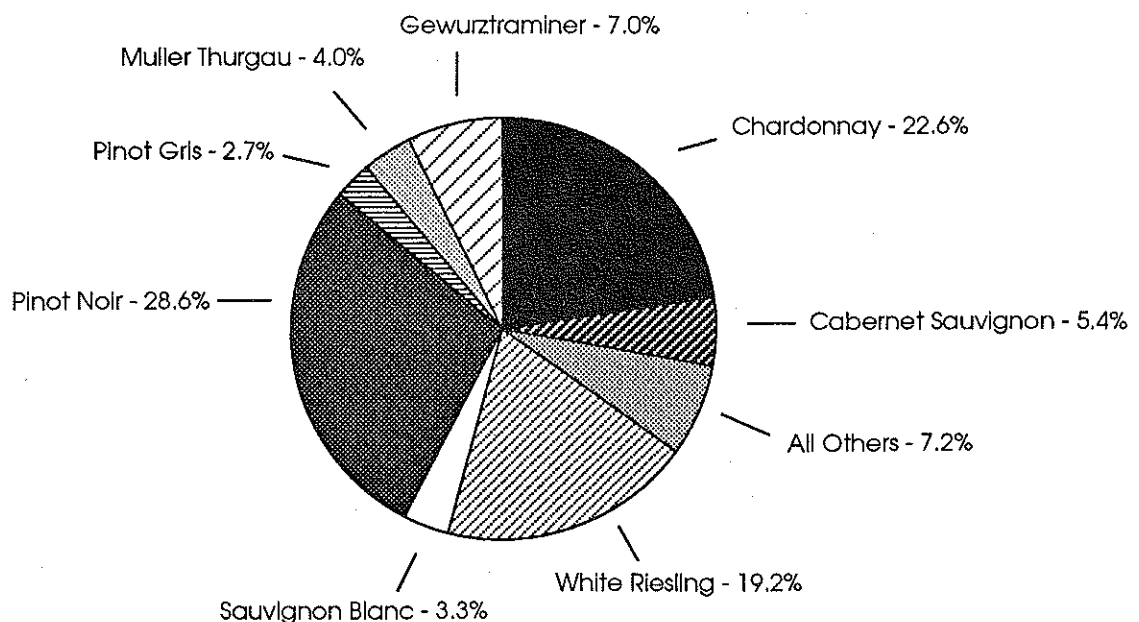
## **THANKS**

The vineyard and winery operators of Oregon are to be commended for their excellent cooperation on this extensive survey. Members of the Wine Advisory Board's Research and Development Committee, which suggested the survey, were especially helpful in questionnaire development and deserve special thanks.

**TABLE 1. WINE GRAPE ACRES, YIELD AND PRODUCTION BY VARIETY, 1987**

Variety	Total Acres	Non-Harvested Acres	Harvested Acres	Yield Per Harvested Acre	Total Production
				Tons	
Cabernet Sauvignon	241.3	92.9	148.4	1.74	257.5
Chardonnay	1,006.9	273.6	733.3	2.87	2,102.4
Chenin Blanc	50.9	15.9	35.0	1.85	64.6
Early Muscat	8.3	0.5	7.8	5.67	44.2
Gamay	24.7	12.3	12.4	3.14	38.9
Gewurztraminer	312.8	110.5	202.3	2.20	444.3
Marechal Foch	5.3	1.8	3.5	1.86	6.5
Merlot	78.5	56.5	22.0	1.60	35.2
Muller Thurgau	178.2	102.9	75.3	3.25	244.5
Muscat Ottonel	10.1	5.0	5.1	2.71	13.8
Pinot Blanc	6.8	4.3	2.5	3.32	8.3
Pinot Gris	118.6	60.2	58.4	2.21	129.2
Pinot Meunier	3.0	-	3.0	1.73	5.2
Pinot Noir	1,277.6	373.2	904.4	2.60	2,352.4
Sauvignon Blanc	147.2	53.7	93.5	1.75	163.8
Semillon	60.2	41.5	18.7	1.88	35.2
Sylvaner	17.7	16.0	1.7	4.71	8.0
White Riesling	855.7	209.3	646.4	2.84	1,833.6
Zinfandel	11.8	-	11.8	2.50	29.5
All Other	41.8	11.8	30.0	1.45	43.5
<b>TOTAL</b>	<b>4,457.4</b>	<b>1,441.9</b>	<b>3,015.5</b>	<b>2.61</b>	<b>7,860.6</b>

**VINEYARD ACRES BY VARIETY, OREGON, 1987**



**ACRES**

**TABLE 2. WINE GRAPE VINEYARDS, ACREAGE, YIELD AND PRODUCTION BY COUNTY, 1987**

COUNTY	Number of Vineyards	Total Acres	Non-Harvested Acres	Harvested Acres	Yield Tons Per Acre	Production Tons
		Acres			Tons	
BENTON	16	121.7	49.7	72.0	2.90	208.5
CLACKAMAS	12	59.4	24.1	35.3	2.66	93.9
DOUGLAS	31	313.2	71.7	241.5	3.00	723.6
HOOD RIVER	4	20.5	5.0	15.5	2.19	33.9
JACKSON	22	153.6	48.7	104.9	1.91	200.7
JOSEPHINE	16	188.4	64.7	123.7	2.77	343.2
LANE	16	170.8	50.9	119.9	2.11	252.6
LINN	4	49.3	7.0	42.3	1.39	58.8
MARION	16	138.9	38.3	100.6	2.79	280.2
MORROW	4	708.6	239.4	469.2	1.47	688.9
POLK	31	752.8	129.8	623.0	2.09	1,300.7
UMATILLA	5	75.2	51.2	24.0	2.00	48.0
WASCO	7	56.9	16.4	40.5	1.74	70.4
WASHINGTON	22	738.7	458.8	279.9	3.99	1,118.1
YAMHILL	54	896.4	186.2	710.2	3.42	2,427.5
OTHER	3	13.0	-	13.0	.89	11.6
STATE TOTAL	263	4,457.4	1,441.9	3,015.5	2.61	7,860.6

**TABLE 3. WINE GRAPE HARVESTED ACRES BY AREA BY VARIETY, 1987**

Area	CABERNET SAUVIGNON	CHARDONNAY	GEWURZ-TRAMINER	MULLER THURGAU	PINOT GRIS	PINOT NOIR	SAUVIGNON BLANC	WHITE RIESLING	ALL OTHERS	TOTAL
	Acres									
POLK CO.	14.1	206.0	40.0	8.0	-	271.7	9.0	47.4	26.8	623.0
WASHINGTON CO.	5.6	55.7	19.8	.7	12.2	100.0	2.6	73.9	9.4	279.9
YAMHILL CO.	3.6	186.7	18.0	34.5	35.4	246.5	16.8	154.3	14.4	710.2
EAST VALLEY 1/	9.1	29.5	23.2	2.5	2.6	69.1	2.6	36.6	6.0	181.2
SOUTH VALLEY 2/	9.0	28.6	18.4	3.8	8.0	70.9	.6	45.8	6.8	191.9
DOUGLAS CO.	28.1	52.6	24.6	1.0	-	37.7	9.2	52.6	35.7	241.5
ROGUE VALLEY 3/	46.4	60.2	32.1	6.5	0.2	39.3	8.0	23.1	12.8	228.6
COLUMBIA RIVER 4/	32.5	114.0	26.2	18.3	-	69.2	44.7	212.7	41.6	559.2
STATE TOTAL	148.4	733.3	202.3	75.3	58.4	904.4	93.5	646.4	153.5	3,015.5

1/ Clackamas, Linn, Marion and Multnomah Counties.

2/ Benton and Lane Counties.

3/ Jackson and Josephine Counties.

4/ Gilliam, Hood River, Morrow, Umatilla and Wasco Counties.

**TABLE 4. WINE GRAPE YIELD PER ACRE BY AREA BY VARIETY, 1987**

AREA	CABERNET		GEWURZ-	MULLER	PINOT	PINOT	SAUVIGNON	WHITE	ALL	TOTAL
	SAUVIGNON	CHARDONNAY	TRAMINER	THURGAU	GRIS	NOIR	BLANC	RIESLING	OTHERS	
	Tons per Acre									
POLK CO.	1.85	2.34	1.45	1.35	-	2.13	4.67	.95	2.13	2.09
WASHINGTON CO.	2.41	4.44	3.32	7.71	1.52	3.56	3.19	4.88	4.57	3.99
YAMHILL CO.	4.94	3.77	2.11	5.01	2.73	3.01	1.66	3.84	2.42	3.42
EAST VALLEY	1.25	2.67	1.63	3.48	2.62	2.52	1.23	2.93	2.10	2.43
SOUTH VALLEY	3.53	3.52	1.28	1.50	.81	1.86	3.50	2.90	3.84	2.40
DOUGLAS CO.	1.86	3.97	2.83	2.00	-	4.24	2.29	2.93	1.57	3.00
ROGUE VALLEY	1.67	1.85	3.05	3.40	4.00	2.87	1.58	2.73	3.60	2.38
COLUMBIA RIVER	.84	1.48	2.05	.93	-	1.39	1.04	1.78	1.38	1.51
STATE AVERAGE	1.74	2.87	2.20	3.24	2.21	2.60	1.75	2.84	2.17	2.61

**TABLE 5. WINE GRAPE PRODUCTION BY AREA BY VARIETY, 1987**

AREA	CABERNET		GEWURZ-	MULLER	PINOT	PINOT	SAUVIGNON	WHITE	ALL	TOTAL
	SAUVIGNON	CHARDONNAY	TRAMINER	THURGAU	GRIS	NOIR	BLANC	RIESLING	OTHERS	
	Tons									
POLK CO.	26.1	482.9	58.1	10.8	-	578.7	42.0	45.1	57.0	1,300.7
WASHINGTON CO.	13.5	247.2	65.7	5.4	18.6	356.0	8.3	360.4	43.0	1,118.1
YAMHILL CO.	17.8	703.9	37.9	172.8	96.5	743.0	27.9	592.9	34.8	2,427.5
EAST VALLEY	11.4	78.9	37.9	8.7	6.8	174.2	3.2	107.3	12.6	441.0
SOUTH VALLEY	31.8	100.8	23.6	5.7	6.5	131.9	2.1	132.6	26.1	461.1
DOUGLAS CO.	52.3	208.9	69.5	2.0	-	159.9	21.1	154.0	55.9	723.6
ROGUE VALLEY	77.4	111.3	97.8	22.1	.8	112.7	12.6	63.1	46.1	543.9
COLUMBIA RIVER	27.2	168.5	53.8	17.0	-	96.0	46.6	378.2	57.4	844.7
STATE TOTAL	257.5	2,102.4	444.3	244.5	129.2	2,352.4	163.8	1,833.6	332.9	7,860.6



**TABLE 6. WINE GRAPE NON-HARVESTED ACRES BY AREA BY VARIETY, 1987**

AREA	CABERNET	CHARDONNAY	GEWURZ-	MULLER	PINOT	PINOT	SAUVIGNON	WHITE	ALL	TOTAL
	SAUVIGNON		TRAMINER	THURGAU	GRIS	NOIR	BLANC	RIESLING	OTHERS	
	Acres									
POLK CO.	4.3	16.6	6.9	11.0	12.8	49.8	-	15.5	12.9	129.8
WASHINGTON CO.	0.4	112.2	18.2	60.7	16.1	147.8	24.1	63.4	15.9	458.8
YAMHILL CO.	2.2	34.5	2.5	9.0	25.4	65.8	2.5	33.7	10.6	186.2
EAST VALLEY	.1	15.5	7.3	3.2	4.4	16.9	5.0	10.8	6.2	69.4
SOUTH VALLEY	6.9	19.0	6.0	4.0	.5	31.8	9.7	18.4	4.3	100.6
DOUGLAS CO.	12.0	9.0	11.8	-	-	20.3	2.9	11.3	4.4	71.7
ROGUE VALLEY	21.5	15.2	14.8	15.0	1.0	24.8	5.5	2.0	13.6	113.4
COLUMBIA RIVER	45.5	51.6	43.0	-	-	16.0	4.0	54.2	97.7	312.0
STATE TOTAL	92.9	273.6	110.5	102.9	60.2	373.2	53.7	209.3	165.6	1,441.9

**TABLE 7. WINE GRAPE ACRES NOT HARVESTED BY YEAR PLANTED BY VARIETY, 1987**

YEAR PLANTED	CABERNET	CHARDONNAY	GEWURZ-	MULLER	PINOT	PINOT	SAUVIGNON	WHITE	ALL	TOTAL
	SAUVIGNON		TRAMINER	THURGAU	GRIS	NOIR	BLANC	RIESLING	OTHERS	
	Acres									
Before 1975	-	-	2.0	-	-	7.0	-	2.2	-	11.2
1975-1980	-	14.5	2.1	.5	-	3.3	-	23.4	12.5	56.3
1981	4.2	2.2	3.1	.6	.5	4.8	2.0	-	.1	17.5
1982	2.1	26.1	2.5	1.0	-	18.7	-	7.2	.9	58.5
1983	6.0	122.8	54.1	6.1	-	55.8	-	73.9	17.8	336.5
1984	42.5	32.9	15.9	14.0	.8	91.1	12.8	28.8	89.4	328.2
1985-1987	36.1	68.1	30.8	80.7	58.9	184.5	38.9	56.6	41.7	596.3
Unknown	2.0	7.0	-	-	-	8.0	-	17.2	3.2	37.4
TOTAL	92.9	273.6	110.5	102.9	60.2	373.2	53.7	209.3	165.6	1,441.9

**TABLE 8. TOTAL WINE GRAPE ACRES BY AREA BY VARIETY, 1987**

AREA	CABERNET SAUVIGNON	CHARDONNAY	GEWURZ- TRAMINER	MULLER THURGAU	PINOT GRIS	PINOT NOIR	SAUVIGNON BLANC	WHITE RIESLING	ALL OTHERS	TOTAL
Acres										
POLK CO.	18.4	222.6	46.9	19.0	12.8	321.5	9.0	62.9	39.7	752.8
WASHINGTON CO.	6.0	167.9	38.0	61.4	28.3	247.8	26.7	137.3	25.3	738.7
YAMHILL CO.	5.8	221.2	20.5	43.5	60.8	312.3	19.3	188.0	25.0	896.4
EAST VALLEY	9.2	45.0	30.5	5.7	7.0	86.0	7.6	47.4	12.2	250.6
SOUTH VALLEY	15.9	47.6	24.4	7.8	8.5	102.7	10.3	64.2	11.1	292.5
DOUGLAS CO.	40.1	61.6	36.4	1.0	-	58.0	12.1	63.9	40.1	313.2
ROGUE VALLEY	67.9	75.4	46.9	21.5	1.2	64.1	13.5	25.1	26.4	342.0
COLUMBIA RIVER	78.0	165.6	69.2	18.3	-	85.2	48.7	266.9	139.3	871.2
STATE TOTAL	241.3	1,006.9	312.8	178.2	118.6	1,277.6	147.2	855.7	319.1	4,457.4

**TABLE 9. WINE GRAPE YIELD PER ACRE BY AGE BY VARIETY, 1987**

YEAR PLANTED	CABERNET SAUVIGNON	CHARDONNAY	GEWURZ- TRAMINER	MULLER THURGAU	PINOT GRIS	PINOT NOIR	SAUVIGNON BLANC	WHITE RIESLING	ALL OTHERS	TOTAL
Tons per Acre										
1980 & Earlier	2.54	3.71	2.89	5.80	3.02	3.44	2.84	4.46	2.76	3.62
1981 - 1984	.94	2.30	1.79	2.14	1.64	1.88	1.58	1.80	1.50	1.90
1985 & Later	.80	.70	1.42	.60	1.15	.69	.35	.58	1.55	.89
ALL AGES	1.74	2.87	2.20	3.24	2.21	2.60	1.75	2.84	2.17	2.61

**TABLE 10. WINE GRAPE YIELD BY VINEYARD SIZE BY VARIETY, 1987**

ACREAGE In VINEYARD	CABERNET SAUVIGNON	CHARDONNAY	GEWURZ- TRAMINER	MULLER THURGAU	PINOT GRIS	PINOT NOIR	SAUVIGNON BLANC	WHITE RIESLING	ALL OTHERS	TOTAL
	Tons per Acre									
2.0 or Less	2.14	1.39	1.75	4.50	1.35	2.00	4.00	3.71	2.02	2.15
2.1 - 5.0	1.71	2.45	2.38	2.62	1.33	2.09	1.07	2.71	1.38	2.13
5.1 - 10.0	1.07	2.92	1.72	3.80	3.25	2.39	1.00	2.15	3.62	2.39
10.1 - 15.0	1.18	2.18	3.04	1.70	2.06	2.97	1.81	3.11	2.42	2.50
15.1 - 20.0	2.34	3.31	3.93	4.03	2.54	2.97	2.26	4.13	2.29	3.09
20.1 - 30.0	2.66	3.85	1.94	5.03	1.84	2.81	2.44	3.56	2.92	3.25
30.1 & Over	1.37	2.77	2.05	2.06	1.50	2.49	1.74	2.50	2.04	2.45
ALL SIZES	1.74	2.87	2.20	3.24	2.21	2.60	1.75	2.84	2.17	2.61

**TABLE 11. WINE GRAPE PRODUCTION BY VINEYARD SIZE BY VARIETY, 1987**

ACREAGE In VINEYARD	CABERNET SAUVIGNON	CHARDONNAY	GEWURZ- TRAMINER	MULLER THURGAU	PINOT GRIS	PINOT NOIR	SAUVIGNON BLANC	WHITE RIESLING	ALL OTHERS	TOTAL
	Tons									
2.0 or Less	4.7	7.5	-	9.0	6.5	17.6	-	10.4	8.9	68.0
2.1 - 5.0	36.1	66.4	30.7	6.8	-	82.7	6.1	68.1	20.7	318.8
5.1 - 10.0	12.7	221.1	66.1	11.4	22.1	211.1	-	62.7	13.4	624.7
10.1 - 20.0	107.8	390.9	107.3	27.7	71.2	559.9	26.3	333.6	124.3	1,749.0
20.1 - 30.0	46.2	349.9	52.6	113.6	25.2	350.2	13.2	367.6	27.7	1,346.2
30.1 & Over	50.0	1,066.6	186.2	76.0	-	1,130.9	112.1	991.2	137.9	3,753.9
TOTAL 1/	257.5	2,102.4	444.3	244.5	129.2	2,352.4	163.8	1,833.6	332.9	7,860.6

1/ Minor quantities in certain districts not published to avoid disclosure.

**TABLE 12. WINE GRAPE SELLING ARRANGEMENT BY VARIETY, 1987**

VARIETY	PERCENTAGE SOLD			PERCENTAGE ALL SALES UNDER BOTTLE PRICING FORMULA
	ON OPEN MARKET	ANNUAL CONTRACT	2 OR MORE 1/ YEAR CONTRACT	
	Percent			
Cabernet Sauvignon	37.3	62.7	-	3.0
Chardonnay	31.8	46.3	21.9	13.1
Gewurztraminer	39.6	43.4	17.0	14.2
Muller Thurgau	10.2	16.1	73.7	19.1
Pinot Gris	3.1	28.3	68.6	9.1
Pinot Noir	20.1	49.5	30.4	15.4
Sauvignon Blanc	58.3	39.6	2.1	12.4
White Riesling	21.6	61.9	16.5	12.3
All Others	35.1	55.8	9.1	6.3
STATE AVERAGE	25.6	48.9	25.5	13.6

1/ Of the vineyard operators who reported long term contracts (two or more years) two-thirds (2/3) reported the prices were negotiated on an annual basis.

**TABLE 13. WINE GRAPE DELIVERY DESTINATION, PERCENT BY VARIETY, 1987**

COUNTY DESTINATION	CABERNET SAUVIGNON	CHARDONNAY	GEWURZ-TRAMINER	MULLER THURGAU	PINOT NOIR	WHITE RIESLING	ALL OTHERS	TOTAL
	Percent							
BENTON	9.6	1.4	1.7	-	2.5	2.3	.2	2.1
DOUGLAS	22.1	8.0	15.6	-	5.8	7.6	13.1	8.2
JACKSON	11.7	2.0	.9	-	.5	1.0	.9	1.4
JOSEPHINE	7.8	2.9	21.8	9.3	4.3	3.5	5.2	5.1
LANE	5.0	1.5	4.2	1.3	4.2	4.6	3.5	3.4
MARION	.4	.8	.8	5.0	1.1	4.2	1.6	1.9
POLK	14.4	9.4	9.7	9.5	12.5	5.4	14.3	10.0
WASHINGTON	-	14.9	10.5	2.3	12.5	28.6	12.4	16.1
YAMHILL	16.2	40.7	19.6	72.6	46.3	28.2	41.7	38.6
OTHER	9.3	4.3	2.8	-	2.4	2.1	4.2	3.1
OUT OF STATE	3.5	14.1	12.4	-	7.9	12.5	2.9	10.1
TOTAL	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	275.5	2,102.4	444.3	244.5	2,352.4	1,833.6	607.9	7860.6

**WINE GRAPE SALES TO HOME WINEMAKERS, 1987**

Sales of wine grapes to home winemakers amounted to a little over one percent of the State's total sales. Pinot Noir represented about forty (40) percent of these sales with the remaining quantity distributed among many varieties. Growers received an average of \$729 per ton from home winemakers.

**TABLE 14. TOTAL WINE GRAPE ACRES BY VINEYARD SIZE BY AREA, 1987**

AREA	LESS THAN 2.0	2.1 - 5.0	5.1 - 10.0	10.1 - 15.0	15.1 - 20.0	20.1 - 30.0	30.1 - 40.0	40.1 - 50.0	50.1 - 75.0	MORE THAN 75.1	TOTAL
	Acres										
POLK CO.	6.0	12.5	55.4	26.5	50.2	-	137.8	131.6	247.3	*	752.8
WASHINGTON CO.	3.0	16.0	16.3	49.3	*	96.6	64.0	-	-	*	738.7
YAMHILL CO.	10.7	38.8	67.2	85.5	*	266.8	143.3	97.6	*	-	896.4
EAST VALLEY	15.2	31.5	52.8	26.0	52.4	72.7	-	-	-	-	250.6
SOUTH VALLEY	6.4	25.8	88.7	40.2	93.4	-	*	-	-	-	292.5
DOUGLAS CO.	5.5	47.8	30.7	69.9	71.3	48.5	*	-	-	-	313.2
ROGUE VALLEY	6.7	60.0	68.2	53.8	54.3	*	-	-	*	-	342.0
COLUMBIA RIVER	1.7	23.0	35.9	50.5	-	*	*	-	-	*	871.2
STATE TOTAL	55.2	255.4	415.2	401.7	390.3	539.6	457.6	229.2	458.1	1,255.1	4,457.4

\* Not shown to avoid disclosure of individual operations.

**TABLE 15. TOTAL WINE GRAPE AVERAGE ACRES BY VINEYARD SIZE BY AREA, 1987**

AREA	LESS THAN 2.0	2.1 - 5.0	5.1 - 10.0	10.1 - 15.0	15.1 - 20.0	20.1 - 30.0	30.1 - 40.0	40.1 - 50.0	50.1 - 75.0	MORE THAN 75.1	TOTAL
	Acres per Vineyard										
POLK CO.	1.5	4.2	7.9	13.3	16.7	-	34.5	43.9	61.8	*	24.3
WASHINGTON CO.	1.5	3.2	8.2	12.3	*	24.2	32.0	-	-	*	33.6
YAMHILL CO.	1.5	4.3	7.5	12.2	*	24.3	35.8	48.8	*	-	16.6
EAST VALLEY	1.4	3.9	7.5	13.0	17.5	24.2	-	-	-	-	7.4
SOUTH VALLEY	1.3	4.3	7.4	13.4	18.7	-	*	-	-	-	9.1
DOUGLAS CO.	1.8	4.0	7.7	14.0	17.8	24.2	*	-	-	-	10.1
ROGUE VALLEY	1.3	3.8	8.5	13.5	18.1	*	-	-	*	-	9.0
COLUMBIA RIVER	0.9	3.8	7.2	12.6	-	*	*	-	-	*	41.5
STATE AVERAGE	1.4	3.9	7.7	13.0	17.7	24.5	35.2	45.8	65.4	251.0	16.9

\* Not shown to avoid disclosure of individual operations.

**TABLE 16. WINE GRAPE BEGINNING HARVEST DATE BY AREA, 1985-1987**

AREA	1985	1986	1987	3 YEAR AVERAGE
	Date			
POLK CO.	OCT. 5	OCT. 5	SEPT. 26	OCT. 2
WASHINGTON CO.	OCT. 10	OCT. 9	SEPT. 29	OCT. 6
YAMHILL CO.	OCT. 6	OCT. 5	SEPT. 27	OCT. 3
EAST VALLEY	OCT. 5	OCT. 6	SEPT. 27	OCT. 3
SOUTH VALLEY	OCT. 4	OCT. 3	SEPT. 29	OCT. 2
DOUGLAS CO.	OCT. 4	OCT. 4	SEPT. 30	OCT. 3
ROGUE VALLEY	SEPT. 26	SEPT. 26	SEPT. 20	SEPT. 24
COLUMBIA RIVER	SEPT. 30	SEPT. 30	SEPT. 10	SEPT. 23
STATE AVERAGE	OCT. 4	OCT. 4	SEPT. 25	SEPT. 30

**TABLE 17. WINE GRAPE BEGINNING HARVEST DATE BY VARIETY, 1985-87**

YEAR	CABERNET SAUVIGNON	CHARDONNAY	GEWURZ-TRAMINER	MULLER THURGAU	PINOT GRIS	PINOT NOIR	SAUVIGNON BLANC	WHITE RIESLING
	Date							
1985	OCT. 12	OCT. 6	SEPT. 30	OCT. 3	OCT. 11	SEPT. 28	OCT. 8	OCT. 15
1986	OCT. 13	OCT. 5	SEPT. 29	SEPT. 30	OCT. 4	SEPT. 26	SEPT. 30	OCT. 10
1987	OCT. 4	SEPT. 26	SEPT. 22	SEPT. 18	SEPT. 19	SEPT. 16	SEPT. 29	OCT. 6

**VINEYARD FROST CONTROL**

About one out of every six vineyard operators utilized some form of frost control. Solid set irrigation and pruning techniques were by far the most widely used practices. The Rogue Valley area had the greatest participation with over one-half reporting the use of frost control measures.

**TABLE 18. VINEYARD SOIL TYPES, PERCENT BY AREA, 1987**

AREA	CLAY	SILT	SAND	CLAY LOAM	SILT LOAM	LOAM SAND	LOAM	SILT CLAY LOAM	SANDY LOAM	SANDY CLAY	SILTY CLAY	SANDY CLAY LOAM	ALL SOIL TYPES
	Percent												
POLK CO.	10	-	-	26	16	-	-	45	-	-	-	3	100
WASHINGTON CO.	-	-	-	31	19	-	-	31	13	6	-	-	100
YAMHILL CO.	18	-	-	54	2	-	-	16	-	-	6	4	100
EAST VALLEY	15	-	-	47	3	-	-	26	6	-	3	-	100
SOUTH VALLEY	3	-	-	43	-	3	6	18	3	12	3	9	100
DOUGLAS CO.	21	5	-	18	10	5	5	13	10	8	-	5	100
ROGUE VALLEY	26	-	-	26	7	5	7	10	10	2	2	5	100
COLUMBIA RIVER	-	-	12	18	28	12	6	12	12	-	-	-	100
STATE AVERAGE	14	1	1	35	8	3	3	20	6	3	2	4	100

**TABLE 19. VINEYARD ELEVATIONS AND SLOPES BY AREA, 1987**

AREA	AVERAGE WEIGHTED LOW ELEVATION	AVERAGE WEIGHTED HIGH ELEVATION	PERCENT OF SLOPES WHICH ARE:									
			LEVEL	SOUTH	SOUTH WEST	WEST	NORTH WEST	NORTH	NORTH EAST	EAST	SOUTH EAST	
	Feet	Feet	Percent									
POLK CO.	364	505	-	41.9	19.3	6.5	-	-	-	-	6.5	25.8
WASHINGTON CO.	370	553	5.3	63.1	10.5	-	-	-	-	-	5.3	15.8
YAMHILL CO.	441	695	4.0	42.0	18.0	4.0	-	-	-	4.0	2.0	26.0
EAST VALLEY	556	664	10.4	55.2	13.8	-	3.4	-	-	3.4	-	13.8
SOUTH VALLEY	436	598	6.3	53.0	6.3	6.3	-	-	-	-	3.1	25.0
DOUGLAS CO.	557	598	35.4	22.6	22.6	6.5	3.2	3.2	-	-	-	6.5
ROGUE VALLEY	1,428	1,491	13.9	33.3	19.3	5.6	-	5.6	5.6	2.8	5.6	13.9
COLUMBIA RIVER	692	863	11.1	33.3	11.1	-	5.6	5.6	-	-	5.6	27.7
STATE AVERAGE	568	727	10.5	42.3	15.9	4.1	1.2	1.6	1.6	1.6	3.3	19.5

**TABLE 20. VINEYARD TRELLIS TYPE, PERCENT BY VARIETY, 1987**

TRELLIS TYPE	CABERNET SAUVIGNON	CHARDONNAY	GEWURZ-TRAMINER	MULLER THURGAU	PINOT GRIS	PINOT NOIR	SAUVIGNON BLANC	WHITE RIESLING	ALL OTHERS	TOTAL
	Percent									
DIVIDED CURTAIN	41.1	20.4	31.8	10.4	10.2	20.4	19.5	34.6	42.7	26.3
MULTI-WIRE VERTICAL CURT.	43.2	54.0	54.3	59.7	77.5	52.7	47.3	52.1	32.8	51.6
SINGLE WIRE	15.7	25.6	13.9	29.9	12.3	26.9	33.2	13.3	24.5	22.1
TOTAL	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

**TABLE 21. VINEYARD TRELLIS TYPE, PERCENT BY AGE OF PLANTING, 1987**

TRELLIS TYPE	1980 AND EARLIER	1981 - 1984	1985 AND LATER	TOTAL
	Percent			
DIVIDED CURTAIN	12.9	34.2	23.9	26.3
MULTI-WIRE VERTICAL CURT.	75.3	37.4	59.4	51.6
SINGLE WIRE	11.8	28.4	16.7	22.1
TOTAL	100.0	100.0	100.0	100.0



TABLE 22. VINEYARD ACRES BY DENSITY OF VINES, 1987

ROW SPACING (FEET)	VINE SPACING IN ROW							TOTAL
	LESS THAN 4 FEET	4 FEET	5 FEET	6 FEET	7 FEET	8 FEET	MORE THAN 8 FEET	
	Acres							
7 or Less	4.9	91.5	34.1	28.1	14.1	-	-	172.7
8 - 9	1.8	66.3	188.1	368.4	84.3	64.6	91.5	865.0
10 - 11	153.3	39.7	131.3	1,038.0	181.8	209.2	53.0	1,806.3
12 or More	9.0	47.2	21.5	379.6	48.8	576.8	24.7	1,107.6
TOTAL 1/	169.0	244.7	375.0	1,814.1	329.0	850.6	169.2	2/ 3,951.6

1/ The vineyard vine density for vineyards reporting in this table averages approximately 740 vines per acre.

2/ Reported densities not equal to state total acreage.

TABLE 23. VINEYARD ACRES BY DENSITY OF VINES PLANTED BEFORE 1981

ROW SPACING (FEET)	VINE SPACING IN ROW							TOTAL
	LESS THAN 4 FEET	4 FEET	5 FEET	6 FEET	7 FEET	8 FEET	MORE THAN 8 FEET	
	Acres							
7 or Less	4.9	2.5	4.5	21.3	13.7	-	-	46.9
8 - 9	1.0	37.7	115.3	170.3	61.3	56.0	66.2	507.8
10 - 11	-	-	43.3	129.9	89.7	112.8	51.0	426.7
12 or More	-	1.2	-	119.0	16.1	91.9	24.7	252.9
TOTAL	5.9	41.4	163.1	440.5	180.8	260.7	141.9	1/ 1,234.3

1/ Reported densities not equal to state total acreage.

**TABLE 24. VINEYARD ACRES BY DENSITY OF VINES PLANTED FROM 1981 - 1984**

ROW SPACING (FEET)	VINE SPACING IN ROW							TOTAL
	LESS THAN 4 FEET	4 FEET	5 FEET	6 FEET	7 FEET	8 FEET	MORE THAN 8 FEET	
	Acres							
7 or Less	-	43.0	7.0	4.0	0.4	-	-	54.4
8 - 9	.8	9.5	59.9	132.0	13.5	7.0	8.3	231.0
10 - 11	153.3	23.9	63.5	839.5	88.7	75.7	2.0	1,246.6
12 or More	9.0	26.0	7.0	197.3	18.1	435.9	-	693.3
TOTAL	163.1	102.4	137.4	1,172.8	120.7	518.6	10.3	1/ 2,225.3

1/ Reported densities not equal to state total acreage.

**TABLE 25. VINEYARD ACRES BY DENSITY OF VINES PLANTED AFTER 1984**

ROW SPACING (FEET)	VINE SPACING IN ROW							TOTAL
	LESS THAN 4 FEET	4 FEET	5 FEET	6 FEET	7 FEET	8 FEET	MORE THAN 8 FEET	
	Acres							
7 or Less	-	46.0	22.6	2.8	-	-	-	71.4
8 - 9	-	19.1	12.8	57.3	2.7	1.6	4.0	97.5
10 - 11	-	15.8	23.5	68.6	3.4	18.7	-	130.0
12 or More	-	20.0	14.5	63.3	14.6	33.7	-	146.1
TOTAL	-	100.9	73.4	192.0	20.7	54.0	4.0	1/ 445.0

1/ Reported densities not equal to state total acreage.

**TABLE 26. VINEYARD YIELD PER ACRE BY DENSITY OF VINES, 1987**

**TABLE 26. VINEYARD YIELD PER ACRE BY DENSITY OF VINES, 1987**

ROW SPACING (FEET)	VINE SPACING IN ROW							TOTAL
	LESS THAN 4 FEET	4 FEET	5 FEET	6 FEET	7 FEET	8 FEET	MORE THAN 8 FEET	
	Tons per Acres							
7 or Less	.31	2.65	1.70	4.46	4.45	-	-	3.16
8 - 9	1.47	2.15	3.13	2.91	3.79	3.20	4.02	3.16
10 - 11	1.31	1.69	2.60	2.19	3.01	2.75	6.05	2.42
12 or More	1.50	1.51	1.56	1.83	5.11	2.42	1.01	2.24
STATE AVERAGE	1.31	2.12	2.84	2.31	3.50	2.57	4.06	2.61

**WINE GRAPE REPORTED LOSSES, 1985 - 1987**

Wine grape losses were reported by only 37 percent of vineyards surveyed because many had no significant losses and others chose not to complete that section of the questionnaire. Of the loss reported as "not harvested", about 84 percent was due to no market. Of the "no market" losses, Chardonnay accounted for 35 percent, White Riesling 32 percent and Muller Thurgau 23 percent. Disease losses were minimal though causing one of the higher types of losses per acre. Mostly dry weather conditions prevailed for the 1987 growing and harvesting period which benefitted disease reduction. Of the diseases and other losses the following causes were mentioned most often: wild animal damage, drought, overspray, spray drift, crown gall and weevil.

**TABLE 27. WINE GRAPE REPORTED LOSSES BY TYPE OF LOSS, 1985 - 1987**

TYPE OF LOSS	1987		1986		1985	
	ACREAGE REPORTED	LOSS TONS/ACRE	ACREAGE REPORTED	LOSS TONS/ACRE	ACREAGE REPORTED	LOSS TONS/ACRE
Bird Damage	393.8	.47	626.4	.53	396.0	.47
Rotted Fruit	140.0	.48	258.1	.93	37.3	.65
Frost Damage	151.2	.78	170.9	.85	139.6	.91
Diseased	18.1	1.37	12.6	2.44	7.0	2.00
Not Harvested	170.9	1.41	64.8	2.46	26.1	2.60
All Others	99.3	1.35	5.8	.10	17.6	1.30

770 tons

909 tons

442 tons

**TABLE 28. PLANS FOR VINEYARD CHANGES BY AREA BY PERCENT CHANGING, 1988 - 1989**

AREA	NEW PLANTINGS	CONVERSION BY RIPPING OUT- REPLANTING	CONVERSION BY GRAFTING	CONVERSION BY INTERPLANTING	REMOVAL ONLY
	Percent				
POLK CO.	39	-	6	-	-
WASHINGTON CO.	14	-	9	-	5
YAMHILL CO.	46	-	2	-	2
EAST VALLEY	18	-	6	-	-
SOUTH VALLEY	34	-	3	-	3
DOUGLAS CO.	10	3	10	-	-
ROGUE VALLEY	37	-	8	5	3
COLUMBIA RIVER	29	-	-	-	-
STATE AVERAGE	30	-	5	1	2

**TABLE 29. WINE GRAPE PROPOSED ACRES BY AREA BY VARIETY, 1988-89**

AREA	CABERNET SAUVIGNON	CHARDONNAY	GEWURZ- TRAMINER	MULLER THURGAU	PINOT GRIS	PINOT NOIR	SAUVIGNON BLANC	WHITE RIESLING	ALL OTHERS	TOTAL
	Acres									
POLK CO.	-	14.0	-	-	13.6	72.1	-	-	3.3	103.0
WASHINGTON CO.	-	-	-	-	3.0	25.5	-	-	-	28.5
YAMHILL CO.	-	8.0	-	4.0	40.3	193.5	10.0	-	5.0	260.8
EAST VALLEY	-	*	-	*	5.3	14.5	*	-	1.3	23.2
SOUTH VALLEY	5.9	5.2	-	-	2.5	44.7	-	*	*	59.0
DOUGLAS CO.	-	15.5	-	*	-	-	-	-	*	21.3
ROGUE VALLEY	16.5	9.0	*	-	-	22.0	*	-	9.5	68.0
COLUMBIA RIVER	4.0	*	-	-	-	5.0	-	*	6.0	18.0
STATE TOTAL	26.4	54.0	*	6.3	64.7	377.3	17.5	*	29.4	581.8

\* Minor quantities in certain districts not published to avoid disclosure.

**TABLE 30. WINE GRAPE PROPOSED PLANTING DETAILS, BY VARIETY, 1988-1989**

VARIETY	AVERAGE PLANTS PER ACRE	ACRES BY YEAR		PERCENT BY TRELLIS TYPE			TYPE OF ROOTSTOCK		
		1988	1989	DIVIDED CURTAIN	MULTI WIRE VERTICAL CURTAIN	SINGLE WIRE	GRAFTED ROOTSTOCK	PLANTS ON OWN ROOTS	DIRECT FROM CUTTING
	Number	Acres		Percent			Percent		
Cabernet Sauvignon	958	14.9	11.5	5	44	51	-	35	65
Chardonnay	810	12.0	39.0	25	41	34	-	61	39
Gewurztraminer	1,200	2.0	2.0	-	100	-	-	100	-
Muller Thurgau	768	-	6.3	-	100	-	-	95	5
Pinot Gris	762	11.5	42.7	24	76	-	-	93	7
Pinot Noir	901	167.3	201.3	23	66	11	5	76	19
Sauvignon Blanc	705	17.5	-	29	71	-	-	56	44
White Riesling	795	.2	2.0	-	100	-	-	100	-
All Other	711	17.6	10.8	6	82	12	6	69	25
<b>TOTAL</b>	<b>866</b>	<b>243.0</b>	<b>315.6</b>	<b>21</b>	<b>65</b>	<b>14</b>	<b>4</b>	<b>74</b>	<b>22</b>

**VINEYARD PROJECTED CONVERSIONS**

A limited number of projected vineyard conversions by replanting, grafting or interplanting were reported. Less than fifty acres of conversions were expected during the 1988 - 1989 period.

**VINEYARD REMOVALS**

Very few vineyard operators planned to completely remove acreage from production. The total acreage reported for removal during 1988 and 1989 was insignificant.

TABLE 31. WINE GRAPE TONNAGE CRUSHED BY OREGON WINERIES, 1987

VARIETY	CRUSH OF ESTATE GROWN GRAPES		CRUSH OF PURCHASED GRAPES		CUSTOM CRUSHED GRAPES		TOTAL CRUSH OF GRAPES	
	TONS	PERCENT OF TOTAL	TONS	PERCENT OF TOTAL	TONS	PERCENT OF TOTAL	TONS	PERCENT OF TOTAL
Cabernet Sauvignon	89.5	3.3	99.1	2.5	9.4	1.5	198.0	2.7
Chardonnay	657.7	24.2	1,012.6	25.4	220.7	36.2	1,891.0	25.9
Chenin Blanc	18.3	.7	15.4	.4	14.5	2.4	48.2	.7
Early Muscat	4.5	.2	1.3	-	25.0	4.1	30.8	.4
Gewurztraminer	153.8	5.7	201.2	5.1	48.3	7.9	403.3	5.5
Merlot	5.1	.2	29.9	.8	-	-	35.0	.5
Muller Thurgau	134.5	5.0	70.9	1.8	21.0	3.5	226.4	3.1
Muscat Ottonel	6.1	.2	6.6	.2	-	-	12.7	.2
Pinot Blanc	6.7	.2	-	-	-	-	6.7	.1
Pinot Gris	19.3	.7	49.6	1.2	-	-	68.9	.9
Pinot Noir	768.4	28.3	1,446.8	36.4	138.9	22.8	2,354.1	32.2
Sauvignon Blanc	26.6	1.0	103.1	2.6	-	-	129.7	1.8
Semillon	6.7	.2	20.1	.5	-	-	26.8	.4
White Riesling	769.1	28.4	871.0	21.9	131.8	21.6	1,771.9	24.2
Zinfandel	5.2	.2	15.2	.4	-	-	20.4	.3
All Other	41.9	1.5	38.0	1.0	-	-	79.9	1.1
<b>TOTAL</b>	<b>2,713.4</b>	<b>100.0</b>	<b>3,980.8</b>	<b>100.0</b>	<b>609.6</b>	<b>100.0</b>	<b>7,303.8</b>	<b>100.0</b>
<b>PERCENT OF STATE</b>	<b>37.2</b>	<b>-</b>	<b>54.5</b>	<b>-</b>	<b>8.3</b>	<b>-</b>	<b>100.0</b>	<b>-</b>

**UNFILLED NEEDS**

Vintners reported needs for an additional 131 tons of grapes but were unable to obtain them at harvest time. Over one-half of the need was for Pinot Noir while most of the remainder was for Sauvignon Blanc and Pinot Gris. The reasons included being too late, supply being gone or the price was not acceptable.

**TABLE 32. TOTAL CRUSH BY OREGON WINERIES BY AREA BY VARIETY, 1987**

AREA	CABERNET SAUVIGNON	CHARDONNAY	GEWURZ- TRAMINER	MULLER THURGAU	PINOT GRIS	PINOT NOIR	SAUVIGNON BLANC	WHITE RIESLING	ALL OTHERS	TOTAL
	Tons									
POLK CO.	21.0	195.6	47.5	25.5	-	230.8	-	100.5	45.5	666.4
WASHINGTON CO. 1/	-	284.3	54.6	-	14.1	364.8	26.9	478.4	23.7	1,252.2
YAMHILL CO.	34.5	887.4	76.8	157.5	42.9	1,178.9	72.1	537.8	66.1	3,054.0
EAST VALLEY 2/	-	61.4	23.8	-	6.7	73.8	10.2	79.6	5.1	273.4
SOUTH VALLEY 3/	33.0	166.3	33.2	-	5.2	247.2	-	314.6	15.4	818.0
DOUGLAS CO.	54.8	154.0	60.8	-	-	131.5	14.4	134.3	66.5	618.0
ROGUE VALLEY 4/	47.6	107.7	89.3	-	-	114.8	-	98.5	34.0	513.9
COLUMBIA RIVER 5/	-	34.3	17.3	-	-	-	-	28.2	4.2	107.9
STATE TOTAL 6/	198.0	1,891.0	403.3	226.4	68.9	2,354.1	129.7	1,771.9	260.5	7,303.8

1/ Includes Clatsop and Tillamook Counties.

2/ Clackamas, Linn, Marion and Multnomah Counties.

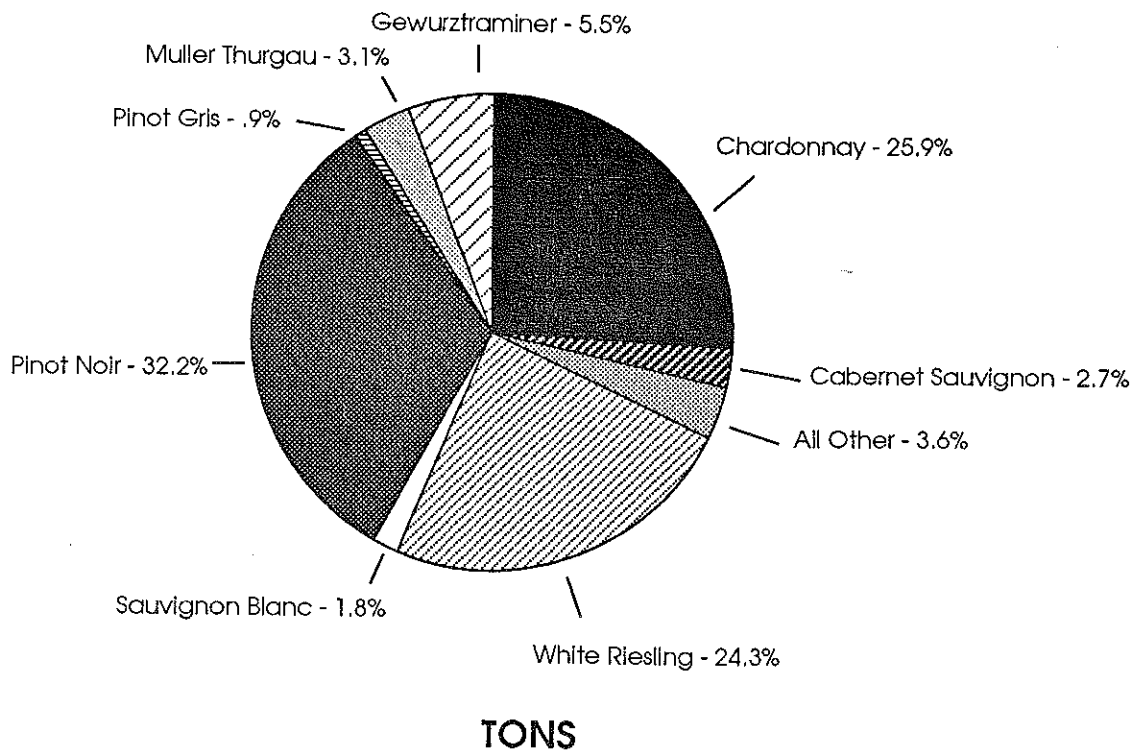
3/ Benton and Lane Counties.

4/ Jackson and Josephine Counties.

5/ Gilliam, Hood River, Morrow, Umatilla and Wasco Counties.

6/ Minor quantities in certain districts not published to avoid disclosure.

## WINE GRAPE CRUSH BY OREGON WINERIES, 1987



**TABLE 33. OREGON WINERIES BY AREA AND TONS CRUSHED, 1987**

AREA	NUMBER OF WINERIES	NUMBER OF WINERIES CRUSHING GRAPES IN 1987	TONS OF GRAPES CRUSHED
	Number	Number	Tons
POLK CO.	10	9	666.4
WASHINGTON CO.	9	8	1,252.2
YAMHILL CO.	17	17	3,054.0
EAST VALLEY	8	7	273.4
SOUTH VALLEY	5	5	818.0
DOUGLAS CO.	7	6	618.0
ROGUE VALLEY	5	4	513.9
COLUMBIA RIVER	4	3	107.9
STATE TOTAL	65	59	7,303.8

**TABLE 34. OREGON WINERY COOPERAGE CAPACITY, 1987**

AREA	TYPE OF VESSEL							TOTAL COOPERAGE CAPACITY
	STAINLESS STEEL	OAK		OTHER WOOD	PLASTIC	FIBER GLASS	GLASS	
		130 Gals or Less	OVER 130 Gals					
	1,000 Gallons							
POLK CO.	71.7	23.1	8.4	-	27.0	5.3	.2	135.7
WASHINGTON CO.	205.0	78.5	4.8	-	6.4	.8	-	295.5
YAMHILL CO.	530.6	171.5	54.3	-	2.0	-	.3	758.7
EAST VALLEY	43.4	24.1	1.6	98.0	20.2	5.2	-	192.5
SOUTH VALLEY	148.1	14.7	10.8	-	-	-	-	173.6
DOUGLAS CO.	80.9	3.0	53.2	3.0	15.4	-	-	155.5
ROGUE VALLEY	144.4	10.7	13.0	-	3.1	-	.3	171.5
COLUMBIA RIVER	20.8	.6	4.5	-	3.0	-	-	28.9
STATE TOTAL	1,244.9	326.2	150.6	101.0	77.1	11.3	.8	1,911.9



TABLE 35. WINE GRAPE PERCENT CRUSH BY USE BY OREGON WINERIES, 1987

VARIETY	PREMIUM VARIETAL	PROPRIETARY or GENERIC	SPARKLING	OTHER VARIETAL	UNKNOWN	TOTAL
	Percent					
CABERNET SAUVIGNON	93.7	-	-	6.3	-	100.0
CHARDONNAY	87.1	2.9	9.8	-	0.2	100.0
CHENIN BLANC	96.4	-	-	3.6	-	100.0
EARLY MUSCAT	100.0	-	-	-	-	100.0
GEWURZTRAMINER	77.7	9.4	-	12.9	-	100.0
MERLOT	92.6	-	-	7.4	-	100.0
MULLER THURGAU	99.0	-	-	-	1.0	100.0
MUSCAT OTTONEL	63.0	22.0	-	15.0	-	100.0
PINOT BLANC	29.9	-	70.1	-	-	100.0
PINOT GRIS	89.3	-	-	9.6	1.1	100.0
PINOT NOIR	73.2	3.9	7.8	14.8	.3	100.0
SAUVIGNON BLANC	99.4	.6	-	-	-	100.0
SEMILLON	90.7	-	-	9.3	-	100.0
WHITE RIESLING	83.6	8.1	3.9	3.3	1.1	100.0
ZINFANDEL	90.2	-	-	9.8	-	100.0
ALL OTHER	52.8	29.3	-	17.9	-	100.0
STATE AVERAGE	81.6	4.9	6.0	7.0	.5	100.0

TABLE 36. ORIGIN OF WINERY CRUSH BY COUNTY BY VARIETY, 1987

VARIETY	BENTON	CLACKAMAS	DOUGLAS	JACKSON	JOSEPHINE	LANE	MARION	POLK
	Tons							
CABERNET SAUVIGNON	-	-	35.0	12.5	19.3	-	.8	9.0
CHARDONNAY	6.2	7.0	130.8	16.8	49.5	11.0	28.6	289.9
GEWURZTRAMINER	10.3	10.7	47.4	9.0	41.6	-	6.7	37.1
MULLER THURGAU	-	-	1.7	-	14.0	1.2	1.2	14.0
PINOT GRIS	2.9	-	-	-	-	.9	6.2	-
PINOT NOIR	60.6	18.8	94.7	15.7	71.8	36.6	75.4	325.3
SAUVIGNON BLANC	-	-	.9	11.0	-	-	4.3	25.7
WHITE RIESLING	12.0	-	69.7	6.0	16.5	18.8	64.3	50.9
ALL OTHER	.5	-	38.8	2.0	35.5	-	9.9	6.0
TOTAL	92.5	36.5	419.0	73.0	248.2	68.5	197.4	757.9

TABLE 36. ORIGIN OF WINERY CRUSH BY COUNTY, BY VARIETY, 1987 (Continued)

VARIETY	WASCO	WASHINGTON	YAMHILL	OTHER COUNTRIES	OUT OF STATE	ESTATE GROWN	TOTAL
	Tons						
CABERNET SAUVIGNON	5.0	4.0	10.0	12.9	-	89.5	198.0
CHARDONNAY	23.3	61.9	460.5	492.2	113.8	2.3	689.4
GEWURZTRAMINER	4.3	19.2	27.3	28.9	7.0	153.8	403.3
MULLER THURGAU	-	-	157.3	50.8	9.0	-	28.0
PINOT GRIS	-	10.5	28.2	.9	-	19.3	68.9
PINOT NOIR	6.3	176.1	611.1	70.7	22.6	768.4	2,354.1
SAUVIGNON BLANC	5.5	1.7	23.5	30.5	-	26.6	129.7
WHITE RIESLING	11.7	90.1	359.1	385.6	322.2	5.0	745.6
ALL OTHER	4.2	14.9	13.5	39.4	1.3	94.5	260.5
TOTAL	60.3	378.4	1,690.5	1,592.2	628.3	38.2	2,615.1

OREGON = 7265.6

WINE OR JUICE PURCHASED FROM OUTSIDE OREGON

Only four reports were returned showing wineries purchasing materials from outside Oregon. Wine purchases totaled 27,000 gallons. No juice purchases were reported. Grape varieties reported were mostly Pinot Noir and White Riesling.

**TABLE 37. WINE GRAPE AVERAGE PRICES PAID BY WINERIES, GROWER HIGH AND LOW PRICES AND TEST RESULTS BY VARIETY, OREGON 1987**

VARIETY	AVERAGE PRICE DOLLARS PER TON	GROWER REPORTED PRICE RANGE		AVERAGE DEGREE BRIX	AVERAGE pH	AVERAGE TA GRAMS PER LITER
		HIGH DOLLARS/TON	LOW DOLLARS/TON			
CABERNET SAUVIGNON	644	1,000	250	22.4	3.32	7.40
CHARDONNAY	599	1,100	250	22.1	3.22	8.20
CHENIN BLANC	600	650	300	22.2	3.17	8.03
EARLY MUSCAT	500	n/a	n/a	22.9	3.40	6.10
GEWURZTRAMINER	532	860	325	22.7	3.64	6.40
MERLOT	656	1,000	600	22.7	3.43	6.70
MULLER THURGAU	414	650	280	18.4	3.22	7.30
MUSCAT OTTONEL	600	n/a	n/a	19.5	3.10	7.70
PINOT GRIS	773	825	500	22.1	3.27	7.30
PINOT NOIR	688	1,200	350	21.8	3.30	8.00
SAUVIGNON BLANC	577	725	475	22.9	3.32	7.20
SEMILLON	428	700	400	24.0	3.55	7.90
WHITE RIESLING	447	1,000	200	21.2	3.13	8.40
ZINFANDEL	545	750	450	21.1	3.22	8.70
ALL OTHER	493	660	300	21.6	3.26	8.40
STATE AVERAGE	589	-	-	21.7	3.26	8.00

n/a - Not available.

**TABLE 38. FUTURE COOPERAGE AND CRUSHINGS**

AREA	COOPERAGE				CRUSH			
	1988 GALLONS	% of 1987	1992 GALLONS	% of 1987	1988 TONS	% of 1987	1992 TONS	% of 1987
POLK CO.	145,031	107	233,700	172	696	104	1,398	210
WASHINGTON CO.	317,760	108	389,760	132	1,456	116	1,798	144
YAMHILL CO.	772,371	102	877,958	116	3,100	102	3,627	119
EAST VALLEY	196,735	102	241,500	125	356	130	524	192
SOUTH VALLEY	174,801	101	344,301	198	842	103	1,796	220
DOUGLAS CO.	134,598	87	204,150	131	646	105	1,077	174
ROGUE VALLEY	178,550	104	222,550	130	575	112	950	185
COLUMBIA RIVER	29,944	104	35,344	122	110	102	140	130
STATE TOTAL	1,949,790	102	2,549,263	133	7,781	107	11,310	155

**TABLE 39. ANTICIPATED CRUSH BY MAJOR VARIETY, 1987 - 1992**

VARIETY	PERCENTAGE BY VARIETY OR KIND BY YEAR		
	1987	1988	1992
	Percent		
Cabernet Sauvignon	4	3	2
Chardonnay	25	23	25
Gewurztraminer	5	4	5
Muller Thurgau	3	5	4
Pinot Gris	1	1	2
Pinot Noir	32	33	38
Sauvignon Blanc	2	3	3
White Riesling	24	22	17
Other Wine Grapes	2	4	3
Fruit & Berries	2	2	1
TOTAL	100	100	100

**TABLE 40. ANTICIPATED WINE TYPES, 1987 - 1992**

VARIETY	PERCENTAGE BY WINE TYPE		
	1987	1988	1992
	Percent		
Premium Varietal	80	75	75
Other Varietal	7	8	9
Generic	5	6	4
Sparkling	6	9	11
Fruit & Berry	2	2	1
Other Wine Products	1/	1/	1/
TOTAL	100	100	100

1/ Less than one percent.

## NON - V.VINIFERA FRUIT, BERRY AND BLENDED WINE PRODUCTS

Non-V.vinifera fruit, berry and blended wine products were produced by 10 of Oregon's 65 wineries during 1987. A total of 146.3 tons of products were produced. Nearly 49 percent, 71.6 tons, of the total were accounted for by apple type wines, rhubarb type wines, and Niagara table grape types. Another 40 percent, 58.0 tons, were composed of blackberry types, Concord table grape types, loganberry types and raspberry types. The remaining production was composed of cherry, Golden Muscat, gooseberry, peach, pear and Red currant type wine products.

During the 1987 production year, all wine producing areas of the state manufactured some non-V.vinifera wine products. About 56 percent of the production was from purchased fruit while 36 percent was produced from purchased concentrates. The remaining 8 percent was produced from estate grown fruit.

The non-V.vinifera wine products using only estate grown fruit stock were Golden Muscat and pear wines. Products using only purchased fruit were blackberry, cherry, gooseberry, loganberry, peach, raspberry and Red currant wines. Apple wine products were reported as made only from concentrate purchased. Niagara grape and rhubarb blended wines were from both purchased fruit and concentrates. Concord grape blends were from both estate grown and purchased concentrates.

These wine products fell into use categories of 66 percent varietal, 19 percent blended fruit wines and 15 percent other wine products, such as wine coolers, etc. Fruits reported with a majority of varietal use (73-100 percent) were blackberry, cherry, gooseberry, loganberry, Niagara grape blends, peach, pear, raspberry, and Red currant wines. Fruits reported with a majority of use for other wine products were Concord grape blends and Golden Muscat wines. A majority of blended fruit use was reported for apple wines.

Non-V.vinifera fruit products used for berry wine production had a reported prices paid range of \$640 to \$1,160 per ton. Fruit products for all other fruit wines had a reported prices paid range of \$200 to \$402 per ton. For all those non-V.vinifera fruit products purchased, 53 percent were bought on the open market, 24 percent were bought under an annual contract and 23 percent with long term contracts. No bottle pricing was reported for these products.

Oregon production of non-V.vinifera wine products in 1988 and 1992 are expected to be 24 and 3 percent respectively above the current 1987 production. Some wineries plan to switch some fruit and berry wine production to more V.vinifera wine production by 1992.

## OREGON WINERY LOCATIONS BY NEAREST TOWN, 1987

NEAREST TOWN	NUMBER
ALPINE	1
AMITY	1
ASTORIA	1
BEAVERTON	1
BOARDMAN	1
CAVE JUNCTION	2
CORVALLIS	1
DALLAS	2
DUNDEE	5
EUGENE	2
FOREST GROVE	3
GASTON	1
GRANTS PASS	2
HILLSBORO	2
HOOD RIVER	2
HOPEWELL	1
JACKSONVILLE	1
LAFAYETTE	2
LEBANON	1
MCMINNVILLE	4
MONMOUTH	2
MONROE	1
NEHALEM	1
NEWBERG	3
OREGON CITY	1
PARKDALE	1
PORTLAND	1
RICKREALL	1
ROSEBURG	3
SALEM	7
SANDY	1
SUBLIMITY	1
SWEET HOME	1
TIGARD	1
UMPQUA	1
WINSTON	3
TOTAL	65