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THE VINEYARDS IN ALAMEDA COUNTY
—
REPORT TO THE
Board of State Viticultural Commissioners
OF CALIFORNIA
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1893

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THE
VINEYARDS IN ALAMEDA COUNTY;

BEING

THE REPORT OF CHARLES BUNDSCHU, COMMISSIONER
FOR THE SAN FRANCISCO DISTRICT,

TO THE

BOARD OF STATE VITICULTURAL COMMISSIONERS OF CALIFORNIA.

PUBLISHED BY THE BOARD OF STATE VITICULTURAL
COMMISSIONERS.

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Office of the Board:
317 PINE STREET, SAN FRANCISCO.

THE VINEYARDS IN ALAMEDA COUNTY.

SAN FRANCISCO, June 12, 1893.

To the honorable the Board of State Viticultural Commissioners:

GENTLEMEN: I herewith submit the following report of the condition of the vineyards in Alameda County, as obtained by Frank L. Fowler, Esq., under direction of myself. I also submit the report of the Secretary of the Board recapitulating the statistics obtained by Mr. Fowler. Respectfully submitted.

CHARLES BUNDSCHU,
Commissioner for the San Francisco District.

REPORT OF F. L. FOWLER.

LIVERMORE, ALAMEDA COUNTY, April 18, 1893.

*Hon. CHARLES BUNDSCHU, Commissioner for the San Francisco District,
State Viticultural Commission:*

DEAR SIR: I herewith beg leave to submit for your consideration the result of my labors in preparing statistical information relative to the vineyards in Alameda County. I have been most careful in gathering these viticultural facts and figures, and, as such, you will find them entirely reliable.

In addition to them I wish to present to your attention other and more general information that came to my knowledge.

I find throughout the county that with but few exceptions the vineyards have been most carefully handled, and given thorough cultivation, good pruning, and training.

Many vintners seem most anxious to improve their product by grafting the higher types of grapes on their more common stocks. There is an intelligent endeavor to experiment and improve upon the methods of making wine, and it seems to be the ambition of the wine makers to establish brands of their own. This I consider to be one of the most hopeful and cheering promises of future prosperity to the industry.

The districts are as follows: Livermore, Pleasanton, Sunol, Vallecitos, Mission San José, Warm Springs, Niles, and Haywards.

LIVERMORE VALLEY.

In the Livermore Valley, I am pleased to say I have been unable to find any indication of the presence of the dreadful pest, phylloxera. Great care has been taken from the first planting of vineyards in 1881

that no cuttings or roots should be introduced from an infected district without first being thoroughly disinfected. This precaution was almost universal, whether the stock came from a known infected region or not. It was the members of the honorable Commission of which you are a member that urged upon the vine planters the necessity of this precautionary course, and to-day the Livermore Valley vineyard owners congratulate themselves on their freedom from the disease, and feel grateful to the Commission for their wise forethought.

The general character of the soil is a sandy loam and in places mixed with gravel, varying in color from red to black; deep and fairly rich. The growth of the vines is rapid and strong, but with few exceptions the crops are not heavy—the bunches and berries being generally small. The theory is that during the summer season the evaporation caused by the warmth of the sun is not counterbalanced by damp or foggy nights, as occur in many other grape sections. However, it is claimed by many that this has the effect of producing a higher quality of grape for wine making.

The crop of the season of 1892 was light, owing to severe frosts that came at a time when the vines were in bloom. The upland and mountainous sections escaped without injury, but the lowlying vineyards suffered severely. It is thought that at least one third of the crop was destroyed.

There was sufficient cellar capacity to accommodate the crop, but no surplus. If the valley has a full crop this year—and at date everything points to a large yield—the present cellars will be inadequate to handle it.

There is an excellent business opportunity for a large public winery that would pay the investors well.

The indications are that before the next vintage the cooperage will be mostly empty.

There have been about 300 acres of vines dug up this season by disappointed vineyard owners, but the great proportion of grape growers are sanguine that much better prices will prevail hereafter.

MISSION SAN JOSÉ.

In the Mission San José district I find that the phylloxera has gained a foothold, and the viticulturists are taking radical precautions to check its spread. In the vineyards where its presence has been discovered the vines in and around the infected spot have been destroyed and gas lime applied at once. I found a reluctance on the part of the owners of infected vineyards to give me information.

The grape output in 1892 was satisfactory so far as crop returns go, but, like the balance of the vintners in the State, all are looking forward with hungry eyes and empty pockets to better prices for grapes and wines.

The cellarage capacity seems ample to accommodate the coming crop.

WARM SPRINGS.

In this district I did not learn of any vineyard infected with phylloxera. In every other particular its soil, climate, and conditions are similar to the Mission San José district.

OTHER DISTRICTS.

The Sunol and Vallecitos vineyard plantations are small and few in number, and are entirely healthy. The soil is different grades of loam and gravel mixed with loam. There are no wineries in either section.

At Haywards I find but few vineyards, and very small plantings are the rule. The vineyards are nearly all planted to table grapes, which are largely sold locally and shipped to San Francisco. Most of the vineyards are owned by Portuguese, and each owner makes enough wine for his own use.

There has been but little planting of vines in Alameda County during the last few years. Nearly all the vineyards are in full bearing. I should judge that the acreage of new vineyards planted during the last three years does not exceed two hundred acres.

During my visits to the different vineyards I find almost invariably that where the owner of a vineyard is a foreigner he makes enough wine for his home use, *and he uses it*. This is not true of the American-born owner. When the wine bottle on the home table of our people takes the place of the whisky and beer bottles on the saloon counters, we will have advanced one great step in the pathway of civilization.

I am most respectfully yours,

FRANK L. FOWLER.

REPORT OF THE SECRETARY.

SAN FRANCISCO, May 17, 1893.

CHARLES BUNDSCHU, *Esq.*, *Viticultural Commissioner for the San Francisco District, San Francisco:*

DEAR SIR: At your request I have prepared a summary of the figures and statistics secured in the recent canvass of Alameda County, made under your direction. The county was divided into several districts for the more intelligent grouping of the statistics.

The recapitulation of the total is as follows:

ALAMEDA COUNTY.

Total number of vineyards	214.
Total acreage in vines	7,083 $\frac{1}{4}$ acres.
Total acreage in bearing	6,879 $\frac{1}{4}$ acres.
Acreage in wine grapes	6,690 $\frac{1}{4}$ acres.
Acreage in table grapes	295 acres.
Acreage in raisin grapes	98 acres.
Planted to resistants, 688 $\frac{1}{4}$ acres, as follows: {	
Riparia	484 $\frac{1}{4}$ acres.
Rupestris	8 acres.
Lenoir	2 acres.
Other varieties	194 acres.
Planted to resistants (same as above), 688 $\frac{1}{4}$ {	
acres	Grafted and in bearing.....663 $\frac{1}{4}$ acres.
	Grafted but not bearing.....0 acres.
	Not yet grafted
Crop in 1892	12,060 tons.
Stock of wine on hand	2,034,550 gallons.
Cooperage	4,147,150 gallons {
	Oak.....
	Redwood
	1,880,500 gallons.

The vineyards are distributed as follows:

LIVERMORE.

Number of vineyards	100.
Acreage in vines	3,619½ acres.
Acreage in bearing	3,558¾ acres.
Acreage in wine grapes	3,491¾ acres.
Acreage in table grapes	72½ acres.
Acreage in raisin grapes	55½ acres.
Planted to resistants, 170¼ acres, as follows: {	
Riparia	131¼ acres.
Lenoir	2 acres.
Other varieties	37 acres.
Planted to resistants (same as above), 170¼ acres—Grafted and in bearing	170¼ acres.
Crop in 1892	5,512 tons.
Stock of wine on hand	754,700 gallons.
Cooperage	1,397,900 gallons {
Oak	369,400 gallons.
Redwood	1,028,500 gallons.

VALLECITOS.

Number of vineyards	3.
Acreage in vines	3½ acres.
Acreage in bearing	3½ acres.
Acreage in wine grapes	None.
Acreage in table grapes	3½ acres.
Acreage in raisin grapes	None.
Planted to resistants	None.
Crop in 1892	5½ tons.

SUNOL.

Number of vineyards	14.
Acreage in vines	148½ acres.
Acreage in bearing	138½ acres.
Acreage in wine grapes	123½ acres.
Acreage in table grapes	25 acres.
Acreage in raisin grapes	None.
Planted to resistants	None.
Crop in 1892	229½ tons.
Stock of wine on hand	15,200 gallons.
Cooperage	25,000 gallons {
Oak	16,000 gallons.
Redwood	9,000 gallons.

PLEASANTON.

Number of vineyards	21.
Acreage in vines	648 acres.
Acreage in bearing	574 acres.
Acreage in wine grapes	603½ acres.
Acreage in table grapes	44 acres.
Acreage in raisin grapes	½ acre.
Planted to resistants	None.
Crop in 1892	1,357½ tons.
Stock of wine on hand	7,400 gallons.
Cooperage	12,650 gallons {
Oak	7,850 gallons.
Redwood	4,800 gallons.

NILES.

Number of vineyards	9.
Acreage in vines	148 acres.
Acreage in bearing	148 acres.
Acreage in wine grapes	77 acres.
Acreage in table grapes	37 acres.
Acreage in raisin grapes	34 acres.
Planted to resistants	Nons.
Crop in 1892	431½ tons.
Stock of wine on hand	500 gallons.
Cooperage	2,000 gallons {
Oak	1,000 gallons.
Redwood	1,000 gallons.

MISSION SAN JOSÉ.

Number of vineyards.....	32.
Acreage in vines.....	1,564½ acres.
Acreage in bearing.....	1,508½ acres.
Acreage in wine grapes.....	1,553½ acres.
Acreage in table grapes.....	11 acres.
Acreage in raisin grapes.....	None.
Planted to resistants, 515 acres, as follows: {	
Riparia.....	353 acres.
Rupestris.....	8 acres.
Other varieties.....	154 acres.
Planted to resistants (same as above) 515 {	
acres.....	Grafted and in bearing..... 490 acres.
	Not yet grafted..... 25 acres.
Crop in 1892.....	2,853 tons.
Stock of wine on hand.....	911,000 gallons.
Cooperage..... 2,176,600 gallons {	
	Oak..... 1,501,900 gallons.
	Redwood..... 674,700 gallons.

HAYWARDS.

Number of vineyards.....	26.
Acreage in vines.....	68 acres.
Acreage in bearing.....	63 acres.
Acreage in wine grapes.....	15½ acres.
Acreage in table grapes.....	52½ acres.
Acreage in raisin grapes.....	None.
Planted to resistants.....	None.
Crop in 1892.....	151 tons.

WARM SPRINGS.

Number of vineyards.....	18.
Acreage in vines.....	885 acres.
Acreage in bearing.....	885 acres.
Acreage in wine grapes.....	838 acres.
Acreage in table grapes.....	39½ acres.
Acreage in raisin grapes.....	8 acres.
Planted to resistants.....	3 acres.
Planted to resistants (same as above), 3 acres—Grafted and in bearing.....	3 acres.
Crop in 1892.....	1,520 tons.
Stock of wine on hand.....	345,750 gallons.
Cooperage..... 534,800 gallons {	
	Oak..... 371,400 gallons.
	Redwood..... 163,400 gallons.

Trusting the foregoing is satisfactory, I am very truly yours,

WINFIELD SCOTT.

REPORT ON VINEYARDS.

LIVERMORE DISTRICT.

Aguillon & Bustelli, Livermore.—Total, 6 acres; all in bearing; soil gravelly loam; vineyard low lying; exposure southwest; crop, 11 tons; stock of wine on hand, 17,000 gallons; cooperage, 160,000 gallons, of which 12,000 is oak and 148,000 is redwood.

W. I. Alexander, Livermore.—Total, 15 acres; all in bearing; soil gravelly; vineyard low lying; exposure to wind, west; crop, 45 tons.

Jas. Altschul, Livermore.—Total, 100 acres; all in bearing; in wine grapes, 90 acres; in raisin grapes, 10 acres; planted to Riparia, 60 acres; Mataro grafts have succeeded best; soil sandy loam; vineyard upland; exposure to wind, west, and to sun, southeast; crop, 178 tons; stock of wine on hand, 500 gallons; cooperage, 1,000 gallons, all of which is oak.

Arlington Company, Livermore.—Total, 60 acres; all in bearing; soil red gravel; vineyard low lying; exposure southwest; crop, 100 tons; cooperage, 20,000 gallons, of which 10,000 is oak and 10,000 is redwood.

Jas. L. Bangs, Livermore.—Total, 13 acres; all in bearing; in wine grapes, 12 acres; in raisin, 1 acre; soil black loam; vineyard low lying; exposure to wind, west; crop, 15 tons.

A. Barsac, Livermore.—Total, 6 acres; none in bearing; soil black loam; vineyard low lying; exposure to wind, west.

Wm. P. Bartlett, Livermore.—Total, 10 acres; all in bearing; soil gravelly; vineyard low lying; exposure to wind, west; crop, 10 tons.

E. H. Benjamin, Livermore.—Total, 16 acres; all in bearing; soil gravelly loam; vineyard low lying; exposure to wind, west; crop, 32 tons.

Mrs. Jas. F. Black, Livermore.—Total, 19 acres; all in bearing; soil gravelly loam; vineyard low lying; exposure to wind, west; crop, 25 tons.

Mrs. A. K. P. Blethen, Livermore.—Total, 9 acres; all in bearing; soil black loam; vineyard low lying; exposure to wind, southwest; crop, 13 tons.

A. Bistorius, Livermore.—Total, 8 acres; all in bearing; soil black loam; vineyard upland; exposure to wind, southwest, and to sun, northeast; crop, 12 tons.

C. A. Buckley, Livermore.—Total, 100 acres; all in bearing; soil red sandy loam and gravel; vineyards low lying and rolling; exposure southwesterly; crop, 120 tons; stock of wine on hand, 35,000 gallons; cooperage, 100,000 gallons, of which 75,000 is oak and 25,000 is redwood.

T. W. Caine, Livermore.—Total, 5 acres; all in bearing; soil sandy loam; vineyard upland; exposure to wind, west, and to sun, south; crop, 10 tons.

O. S. Calderwood, Livermore.—Total, 39 acres; all in bearing; soil gravelly; vineyard low lying; exposure to wind, southwest, and to sun, northwest; crop, 40 tons.

Mrs. Henry Callaghan, Livermore.—Total, 15 acres; all in bearing; soil gravel; vineyard low lying; exposure to wind, southwest; crop, 15 tons.

John Callaghan, Livermore.—Total, 35 acres; all in bearing; soil gravel; vineyard low lying; exposure to wind, southwest; crop, 30 tons.

Pat Callaghan, Livermore.—Total, 20 acres; all in bearing; soil gravel; vineyard low lying; exposure to wind, southwest; crop, 40 tons.

C. Carpy, Livermore.—Total, 7½ acres; all in bearing; soil gravelly loam; vineyard low lying; exposure to wind, west; crop, 11 tons.

No wine at Livermore.

Elizabeth Castle, Livermore.—Total, 2½ acres; all in bearing; soil red loam; vineyard upland; exposure to wind, southwest, and to sun, north.

A. G. Chauché, Livermore.—Total, 60 acres; all in bearing; soil sandy loam; vineyard low lying; crop, 68 tons; cooperage, 100,000 gallons, of which 49,000 is oak and 51,000 is redwood.

Major C. C. Clay, Livermore.—Total, 3 acres; all in bearing; soil red gravelly loam; vineyard low lying; exposure to wind, south; crop, 90 tons.

Major Clay has taken up all his vines except three acres, and has planted an orchard in their place.

C. C. Clay & Co., Livermore.—Total, 35 acres; all in bearing; soil red clay; vineyard low lying; exposure to wind, southwest; crop, 13 tons.

James Concannon, Livermore.—Total, 57 acres; all in bearing; soil gravelly loam; vineyard low lying; exposure to wind, west; crop, 127 tons; cooperage, 6,000 gallons, of which 2,000 is oak and 4,000 is redwood.

P. Connolly, Livermore.—Total, 22 acres; all in bearing; soil gravel; vineyard low lying; crop, 30 tons.

H. E. Crane, Livermore.—Total, 28 acres; all in bearing; soil red clay; vineyard upland; exposure to wind, west, and to sun, south; crop, 25 tons.

J. Crellin & Sons, Livermore.—Total, 220 acres; all in bearing; soil red sandy and black gravelly loam; vineyard upland; exposure to sun, east, and to wind, southwest; crop, 433 tons; cooperage, 220,000 gallons, of which 100,000 is oak, 80,000 is redwood, and 40,000 fermenting tanks.

E. Creswell, Livermore.—Total, 9 acres; all in bearing; soil black loam; vineyard low lying; exposure to wind, west; crop, 5 tons.

Capt. Wm. Crosby, Livermore.—Total, 2½ acres; in bearing, ½ acre; in wine grapes, 2 acres; in table grapes, ½ acre; soil gravelly; vineyard mountain; exposure to wind, southwest, and to sun, northeast; crop, 1 ton.

L. Cull, Livermore.—Total, 3 acres; all in bearing; in table grapes, 3 acres; soil gravelly; vineyard low lying; exposure to wind, southwest; crop, 3 tons.

J. M. Davis, Livermore.—Total, 47 acres; all in bearing; soil gravelly; vineyard low lying; exposure southwest; crop, 43 tons.

John Deniff, Livermore.—Total, 10 acres; all in bearing; soil red loam; vineyard upland; exposure to wind, southwest, and to sun, south; crop, 10 tons.

J. M. Doty, Livermore.—Total, 8½ acres; all in bearing; in table grapes, 7 acres; in raisin grapes, 1½ acres; soil sandy loam; vineyard low lying; exposure to wind, southwest; crop, 13 tons.

A. Duvall, Livermore.—Total, 140 acres.

Mr. Duvall refused to give any information regarding his vineyard, but his stock is estimated to be about 100,000 gallons.

Wallace Everson, Livermore.—Total, 85 acres; all in bearing; planted to Californicas, 2 acres, all of which are grafted and in bearing; the Cabernet grafts have succeeded best; soil red gravel; vineyard low lying; exposure southwest; crop, 150 tons; cooperage, 25,000 gallons, of which 8,000 is oak and 17,000 is redwood.

Adam Fath, Livermore.—Total, 6 acres; all in bearing; planted to wine grapes, 5 acres; to table grapes, 1 acre; soil black loam; vineyard low lying; exposure to wind, southwest; crop, 12 tons.

R. S. Farrelly, Livermore.—Total, 26 acres; all in bearing; soil gravelly loam; vineyard low lying; exposure southwest; crop, 30 tons.

J. C. Fink, Livermore.—Total, 45 acres; all in bearing; soil gravelly loam; vineyard low lying; exposure southwest; crop, 15 tons; cooperage, 3,500 gallons, of which 500 is oak and 3,000 is redwood.

Frank L. Fowler, Livermore.—Total, 70 acres; in bearing, 57 acres; planted to Riparia, 15 acres, all of which are grafted and in bearing; the Cabernet, Verdot, and Semillon grafts succeeding best; soil red and black loam and gravelly; vineyard upland; exposure to wind, southwest, and to sun, north; crop, 63 tons; stock of wine on hand, 5,400 gallons.

Wm. A. Fraser, Livermore.—Total, 10 acres; all in bearing; planted to table grapes, 10 acres; soil red sandy loam; vineyard upland; exposure to wind, southwest, and to sun, east; crop, 10 tons.

Jas. Gallagher, Livermore.—Total, 25 acres, all in bearing; soil gravel; vineyard low lying; exposure to wind, southwest; crop, 37 tons.

O. Groth, Livermore.—Total, 22 acres; all in bearing; soil gravelly; vineyard low lying; exposure to wind, southwest, and to sun, south; crop, 35 tons.

E. W. Hall, Livermore.—Total, 2½ acres; all in bearing; planted to wine grapes, 1½ acres; to raisin grapes, 1 acre; soil sandy loam; vineyard mountain; exposure to wind, southwest, and to sun, east; crop, 2 tons.

H. Hall, Livermore.—Total, 10 acres; all in bearing; soil black loam; vineyard upland; exposure to wind, west, and to sun, east; crop, 15 tons.

J. P. Hanavan, Livermore.—Total, 25 acres; all in bearing; soil gravelly loam; vineyard low lying; exposure to wind, west; crop, 27 tons.

Mrs. F. Hawxhurst, Livermore.—Total, 4 acres; all in bearing; planted to table grapes, 4 acres; soil red gravel; vineyard upland; exposure to wind, west, and to sun, southeast; crop, 5 tons.

Timothy Hays, Livermore.—Total, 40 acres; all in bearing; soil gravelly loam; vineyard upland; exposure southwest; crop, 80 tons.

A. B. Henderson, Livermore.—Total, 25 acres; all in bearing; soil red sandy loam; vineyard upland; exposure southwest; crop, 50 tons.

Mr. Henderson dried his crop of grapes.

Daniel Inman, Livermore.—Total, 90 acres; all in bearing; soil sandy loam; vineyard low lying; exposure to wind, southwest; crop, 180 tons.

Dried 140 tons grapes, sold rest for wine.

J. M. Jones, Livermore.—Total, 1 acre; planted to table grapes; soil gravel; vineyard upland; exposure to wind, southwest, and to sun, south; crop, 2 tons.

F. C. Jordan, Livermore.—Total, 8½ acres; all in bearing; planted to wine grapes, 7½ acres; raisin grapes, 1 acre; soil sandy loam; vineyard mountain; exposure to wind, southwest, and to sun, southeast; crop, 9 tons.

Mrs. Isabelle Jordan, Livermore.—Total, 2 acres; all in bearing; all planted in raisin grapes; soil sandy loam; vineyard mountain; exposure southwest; crop, 2 tons.

Captain E. N. Knowles, Livermore.—Total, 17 acres; all in bearing; soil gravelly loam; vineyard low lying; exposure southwest; crop, 15 tons.

Thos. E. Knox, Livermore.—Total, 22 acres; all in bearing; soil gravelly; vineyard low lying; exposure to wind, southwest, and to sun, south; crop, 36 tons.

Alfred Kottinger, Livermore.—Total, 1 acre; all in bearing; planted in table grapes; soil red sandy loam; vineyard mountain; exposure to sun, northeast, and to wind, south; crop, 2 tons.

Thos. Lawler, Livermore.—Total, 6 acres; all in bearing; soil gravel; vineyard low lying; exposure to wind, southwest; crop, 10 tons.

S. Levy, Livermore.—Total, 18 acres; all in bearing; soil red loam; vineyard mountain; exposure to wind, southwest, and to sun, north; crop, 13 tons.

Robt. Lewin, Livermore.—Total, 10 acres; all in bearing; soil red clay; vineyard low lying; exposure to wind, southwest; crop, 22 tons.

E. R. Lilienthal, Livermore.—Total, 185 acres; all in bearing; planted to Riparia, 45 acres; to Californicas, 5 acres; all Riparia grafts have done well; soil red sandy loam and gravel; vineyard upland; exposure in all directions; crop, 275 tons; cooperage, 30,000 gallons, of which 10,000 is oak and 20,000 is redwood.

N. Lorrain, Livermore.—Total, 16½ acres; all in bearing; soil sandy loam; vineyard upland; exposure to wind, southwest, and to sun, east; crop, 35 tons; cooperage, 7,000 gallons, of which 3,000 is oak and 4,000 is redwood.

Dutro Lucca, Livermore.—Total, 15 acres; soil gravel; vineyard low lying; exposure southwest.

Vines are all three years old.

Robt. McGlashan, Livermore.—Total, 16 acres; all in bearing; soil red clay; vineyard upland; exposure to wind, southwest, and to sun, northeast; crop, 18 tons.

John McIver, Livermore.—Total, 15 acres; all in bearing; planted to table grapes, 5 acres; to raisin grapes, 10 acres; soil dark gravel; vineyard low lying; exposure west; crop, 30 tons.

L. M. Marini, Livermore.—Total, 28 acres; in bearing, 23 acres; soil gravelly loam; exposure southwest; crop, 14 tons; cooperage 5,000 gallons, of which 2,000 is oak and 3,000 is redwood.

Geo. May, Livermore.—Total, 4 acres; all in bearing; all planted to table grapes; soil black loam; vineyard low lying; exposure to wind, southwest; crop, 2 tons.

Louis Mel, Livermore.—Total, 32 acres; all in bearing; planted to Riparia, 7 acres, all of which are grafted and in bearing; the Folle Blanche and Colombar grafts have succeeded best; soil red; vineyard upland; exposure to wind, southwest, and to sun, east; crop, 45 tons.

Estate of Dr. S. Merritt, Livermore.—Total, 22 acres; all in bearing; soil gravelly; vineyard upland; exposure to wind, west; crop, 42 tons.

O. F. Miner, Livermore.—Total, 9 acres; all in bearing; soil gravel; vineyard low lying; exposure southwest; crop, 18 tons.

Mr. Miner dried his grape crop.

A. Montgomery, Livermore.—Total, 95 acres; planted to wine grapes, 64 acres; to table grapes, 19 acres; to raisin grapes, 10 acres; soil black loam; vineyard low lying; crop, 115 tons.

Wm. P. Osterhout, Livermore.—Total, 31 acres; all in bearing; soil sandy loam and gravel; vineyard low lying; exposure to wind, southwest, and to sun, south; crop, 35 tons.

Eugene Paris, Livermore.—Total, 35 acres; all in bearing; soil red loam; vineyard low lying; exposure southwest; crop, 70 tons; cooperage, 50,400 gallons, of which 10,400 is oak and 40,000 is redwood.

Mrs. C. O. Patterson, Livermore.—Total, 35 acres; all in bearing; soil gravelly; vineyard low lying; exposure southwest; crop, 35 tons.

R. T. Pope, Livermore.—Total, 3 acres; all in bearing; and all planted to table grapes; soil sandy loam; vineyard mountain; exposure to wind, southwest, and to sun, north; crop, 6 tons.

J. Richter, Livermore.—Total, 4 acres; all in bearing; soil black loam; vineyard low lying; exposure southwest; crop, 12 tons.

Mrs. S. C. Sanford, Livermore.—Total, 8 acres; all in bearing; all planted in table grapes; soil sandy loam; vineyard upland; exposure to wind, southwest, and to sun, east; crop, 12 tons.

Wm. Schiejelhie, Livermore.—Total, 10 acres; all in bearing; planted to wine grapes, 9 acres; to raisin grapes, 1 acre; soil gravelly; vineyard low lying; exposure to wind, southwest; crop, 18 tons.

P. Schluter, Livermore.—Total, 17 acres; all in bearing; soil black loam; vineyard low lying; exposure to wind, southwest; crop, 45 tons.

E. Schween, Livermore.—Total, 20 acres; all in bearing; soil black loam; vineyard low lying; exposure to wind, southwest; crop, 57 tons.

J. J. Scoville (see Paris), Livermore.—Total, 52½ acres; all in bearing; soil red clay; vineyard upland; exposure to wind, southwest, and to sun, west; crop, 67 tons.

Julius P. Smith, Livermore.—Total, 660 acres; all in bearing; soil red sandy and black loam; vineyard upland; exposure west; crop, 1,200 tons; cooperage, 500,000 gallons, of which 50,000 is oak and 450,000 is redwood.

Mrs. John Squires, Livermore.—Total, 10 acres; all in bearing; all planted to raisin grapes; soil gravelly; vineyard low lying; exposure to wind, west; crop, 12 tons.

Mrs. John Stevenson, Livermore.—Total, 23 acres; all in bearing; planted to resistants, 2 acres; soil red sandy loam; vineyard low lying; exposure to wind, west; crop, 25 tons.

Mrs. John Taylor, Livermore.—Total, 3 acres; all in bearing; planted to wine grapes, 2 acres; to table grapes, 1 acre; soil black loam; vineyard low lying; exposure to wind, southwest; crop, 15 tons.

D. M. Teeters, Livermore.—Total, 25 acres; all in bearing; soil gravelly; vineyard low lying; exposure southwest; crop, 35 tons.

Hans Thonesen, Livermore.—Total, 65 acres; all in bearing; soil gravelly loam; vineyard low lying; exposure southwest; crop, 110 tons.

E. E. Toche, Livermore.—Total, 17 acres; all in bearing; soil gravelly loam; vineyard low lying; exposure southwest; crop, 30 tons; cooperage, 4,000 gallons, of which 1,500 is oak and 2,500 is redwood.

Geo. True, Livermore.—Total, 100 vines; all in bearing; soil sandy loam; vineyard upland; exposure northwest; crop, 143 tons; cooperage, 50,000 gallons, of which 20,000 is oak and 30,000 redwood.

N. R. Turner, Livermore.—Total, 10 acres; all in bearing; planted to table grapes, 5 acres; to raisin grapes, 5 acres; soil black gravel; vineyard low lying; exposure to wind, west; crop, 10 tons.

H. B. Wagoner, Livermore.—Total, ¼ acre; all in bearing; soil gravelly; vineyard low lying; exposure southwest; cooperage, 45,000 gallons, of which 9,000 is oak and 36,000 is redwood.

P. C. Waltenbaugh, Livermore.—Total, 24 acres; all in bearing; soil red loam; vineyard low lying; exposure to wind, southwest, and to sun, south; crop, 33 tons.

Mrs. L. Wegener, Livermore.—Total, 55 acres; all in bearing; soil black gravel and loam; vineyard low lying; exposure south; crop, 142 tons.

C. H. Wente & Co., Livermore.—Total, 48½ acres; in bearing, 28½ acres; soil gravel and black loam; vineyard low lying; exposure to wind, southwest; crop, 115 tons; cooperage, 80,000 gallons, of which 15,000 is oak and 65,000 is redwood.

C. J. Wetmore, Livermore.—Total, 42 acres; all in bearing; planted to Riparia, ¼ acre; to Lenoir, 2 acres; to Californica, 12 acres; Mondeuse grafts on Riparia, Semillon grafts on Lenoir, and all grafts on Californica do well; soil black gravel and red clay; vineyard upland; exposure southwest; summer wind, southwest; crop, 50 tons.

Albert Weymouth, Livermore.—Total, 16 acres; all in bearing; soil gravelly; vineyard low lying; exposure to wind, west; crop, 13 tons.

Almon Weymouth, Livermore.—Total, 16 acres; all in bearing; soil gravelly; vineyard low lying; exposure to wind, west; crop, 16 tons.

John H. Wheeler, Livermore.—Total acreage (two vineyards), 120 acres; all in bearing; soil sandy loam; vineyard low lying; exposure west; crop, 10 tons.

A. Wilson, Livermore.—Total, 13 acres; all in bearing; planted to wine grapes, 10 acres; to raisin grapes, 3 acres; soil gravel; vineyard low lying; exposure southwest; crop, 70 tons.

A. B. Winegar, Livermore.—Total, 30 acres; all in bearing; soil black loam; vineyard upland; exposure to wind, southwest, and to sun, south; crop, 46 tons.

H. P. Winegar, Livermore.—Total, 13 acres; all in bearing; soil black loam; vineyard upland; exposure to wind, west, and to sun, north; crop, 28 tons.

J. H. Wood, Livermore.—Total, 15 acres; all in bearing; soil red clay; vineyard upland; exposure to wind, west, and to sun, north; crop, 18 tons.

S. C. Wright, Livermore.—Total, 40 acres; all in bearing; soil gravelly loam; vineyard low lying; exposure southwest; crop, 65 tons.

PLEASANTON DISTRICT.

Jos. Arnedon (see Sportano), Pleasanton.—Total, 20 acres; in bearing, 6 acres; soil red sandy loam; vineyard upland; exposure south, wind southwest; crop, 9 tons; cooperage, 1,500 gallons, all of which is oak.

Geo. E. Atwood, Pleasanton.—Total, 8 acres; all in bearing; planted to wine grapes, $7\frac{1}{2}$ acres; to raisin grapes, $\frac{1}{2}$ acre; soil red gravelly loam; vineyard upland; exposure to wind, west, and to sun, north; crop, 16 tons.

Joshua Chadbourne, Pleasanton.—Total, 7 acres; all in bearing; soil red gravelly loam; vineyard upland; exposure easterly, wind northwest; crop, 20 tons.

Mrs. Emily Chevalier, Pleasanton.—Total, 4 acres; all in bearing; soil red loam; vineyard upland; exposure south, wind southwest.

The grapes in this vineyard were not gathered.

Frank Curdy, Pleasanton.—Total, 2 acres; all in bearing; soil red sandy loam; vineyard upland; exposure northwest; crop, 4 tons; cooperage, 750 gallons, all of which is oak.

Miss A. Grant, Pleasanton.—Total, 35 acres; all in bearing; soil sandy loam; vineyard low lying; exposure west; crop, 25 tons.

Harris & Whidden, Pleasanton.—Total, 2 acres; all in bearing; planted to wine grapes, 1 acre; to table grapes, 1 acre; soil red clay; vineyard upland; exposure to sun, northwest, and to wind, west; crop, 4 tons.

John G. Hoyt, Pleasanton.—Total, 13 acres; all in bearing; all planted to table grapes; soil gravelly loam; vineyard upland; exposure west; crop, 20 tons.

Samuel E. Jackson, Pleasanton.—Total, 6 acres; all in bearing; soil red gravelly loam; vineyard low lying; exposure west and north; crop, 12 tons.

Albert Koopman, Pleasanton.—Total, 30 acres; all in bearing; soil black gravelly loam; vineyard upland; exposure to wind, west, and to sun, north; crop, 76 tons.

J. W. Kottinger, Pleasanton.—Total, 6 acres; all in bearing; soil red gravelly loam; vineyard upland; exposure west and north; crop, 16 tons.

Chas. Rathke, Pleasanton.—Total, 3 acres; all in bearing; soil red sandy loam; vineyard upland; exposure northwest; crop, $7\frac{1}{2}$ tons.

Mrs. Lois Rayburn, Pleasanton.—Total, 30 acres; all in bearing; soil black loam; vineyard low lying; exposure southwest; crop, 135 tons.

Jason A. Rose, Pleasanton.—Total, 220 acres; all in bearing; soil sandy loam; vineyard upland; exposure in all directions; crop, 770 tons.

Frank Silva, Pleasanton.—Total, 2 acres; all in bearing; soil red sandy loam; vineyard upland; exposure to sun, east, and to wind, northwest; crop, 4 tons; cooperage, 600 gallons, all of which is oak.

M. I. Silva, Pleasanton.—Total, 6 acres; all in bearing; soil red sandy loam; vineyard upland; exposure west and north; crop, 9 tons.

J. B. Sportano (estate of), Pleasanton.—Total, 55 acres; in bearing, 30 acres; soil red sandy loam; vineyard mountain; exposure, all directions; crop, 45 tons; cooperage, 9,800 gallons, of which 5,000 is oak and 4,800 is redwood.

Miss Bessie Stover, Pleasanton.—Total, 24 acres; all in bearing; planted to wine grapes, 15 acres; to table grapes, 9 acres; soil gravelly; vineyard low lying; exposure southwest; crop, 78 tons.

John H. Wheeler, Pleasanton.—Total, 105 acres; all in bearing; soil sandy loam; vineyard low lying; exposure west; crop, 50 tons.

R. Wyley, Pleasanton.—Total, 35 acres; planted to wine grapes, 17 acres; to table grapes, 18 acres; soil red sandy loam; vineyard upland; exposure northeast and west; crop, 12 tons.

Mrs. John Yost, Pleasanton.—Total, 35 acres; soil gravelly loam; vineyard upland; exposure east and north; crop, 45 tons.

SUNOL DISTRICT.

John Brown, Sunol.—Total, 1 acre; all in bearing, and planted to table grapes; soil adobe; vineyard upland; exposure east and west; crop, 2½ tons.

Jas. Burns, Sunol.—Total, 8 acres; all in bearing; soil adobe; vineyard mountain; exposure northeast; crop, 18 tons.

Mrs. E. Buttner, Sunol.—Total, 12 acres; all in bearing; planted to wine grapes, 11 acres; to table grapes, 1 acre; soil gravelly loam; vineyard upland; exposure to sun, southeast, and to wind, south; crop, 25 tons.

Chas. Duerr, Sunol.—Total, ½ acre; in bearing, and planted to table grapes; soil adobe; vineyard upland; exposure to sun, west, and to wind, southwest; crop, 1 ton.

Capt. Henry H. Ellis, Sunol.—Total, 3 acres; all in bearing, and all in table grapes; soil black gravel; vineyard upland; exposure to sun, southwest, and to wind, south; crop, 6 tons.

Mr. Flint, Sunol.—Total, 2 acres; all in bearing; planted to wine grapes, 1 acre; to table grapes, 1 acre; soil red loam; vineyard mountain; exposure south; crop, 5 tons.

G. Foster, Sunol.—Total, 2 acres; all in bearing; planted to wine grapes, 1½ acres; to table grapes, ½ acre; soil black gravel; vineyard upland; exposure to sun, southwest, and to wind, south; crop, 6 tons.

T. L. Orr, 112 Montgomery Street, San Francisco.—Total, 5 acres; all in bearing, and all planted to table grapes; soil black gravel; vineyard upland; exposure to sun, southwest, and to wind, south; crop, 6 tons.

Merci Paptista, Sunol.—Total, 7 acres; all in bearing; soil adobe; vineyard mountain; exposure east and southwest; crop, 12 tons.

A. Py, Sunol.—Total, 5 acres; all in bearing; soil gravelly, black and red loam; vineyard upland; exposure west; crop, 10 tons; cooperage, 3,000 gallons, of which 2,000 is oak and 1,000 is redwood.

Mrs. Mary Roumiguere, Sunol.—Total, 30 acres; in bearing, 20 acres; soil red sandy loam; vineyard mountain; exposure to sun, east, and to wind, southeast; crop, 80 tons; cooperage, 12,000 gallons, of which 8,000 is oak and 4,000 is redwood.

Virgil Shares, Sunol.—Total, 10 acres; all in bearing; soil gravelly; vineyard low lying; exposure to wind, west; crop, 27 tons; cooperage, 10,000 gallons, of which 6,000 is oak and 4,000 is redwood.

A. H. Stocker, Oakland.—Total, 3 acres; all in bearing, and all planted to table grapes; soil black gravel; vineyard upland; exposure to sun, northwest, and to wind, south; crop, 6 tons.

Sunol Land and Vineyard Co., Sunol.—Total, 60 acres; all in bearing; planted to wine grapes, 50 acres; to table grapes, 10 acres; soil red gravelly; vineyard mountain; exposure in all directions, except due north; crop, 25 tons.

This is a young vineyard.

NILES DISTRICT.

Robert Bonner, Niles.—Total, 13 acres; all in bearing; soil sandy loam; vineyard upland; exposure to sun, southeast, and to wind, southwest; crop, 91 tons.

A. Dan Carrell, Niles.—Total, 2 acres; all in bearing; all planted to table grapes; soil sandy loam; vineyard mountain; exposure southwest; crop, 5 tons.

Giles Chittendon, Niles.—Total, 1 acre; all in bearing; soil sandy loam; vineyard upland; exposure to sun, southeast, and to wind, west; crop, 2½ tons.

E. Clarke, Niles.—Total, 42 acres; all in bearing; planted to wine grapes, 14 acres; to table grapes, 14 acres; to raisin grapes, 14 acres; soil red sandy loam; vineyard upland; exposure to sun, south, and to wind, southwest; crop, 150 tons; cooperage, 2,000 gallons, of which 1,000 is oak and 1,000 is fermenting tanks.

H. G. Ellsworth, Niles.—Total, 12 acres; all in bearing; soil slate mixed with loam; vineyard upland; exposure to sun, south, and to wind, southwest; crop, 65 tons.

Mr. Ellsworth has dug up 12 acres of vineyard, and next year will remove balance.

H. Allen Hayhew, Niles.—Total, 60 acres; all in bearing; planted to wine grapes, 20 acres; table grapes, 40 acres; raisin grapes, 20 acres; soil sandy loam; vineyard mountain; exposure to sun, southeast, and to wind, southwest; crop, 60 tons.

P. Morrison, Niles.—Total, 3 acres; all in bearing; soil dark sandy loam; vineyard low lying; exposure west; crop, 8 tons.

H. Mosher, Niles.—Total, 5 acres; all in bearing; soil sandy loam; vineyard low lying; exposure west; crop, 25 tons.

Mrs. Loring Pickering, Niles.—Total, 10 acres; all in bearing; soil slate mixed with loam; vineyard upland; exposure to sun, south, and to wind, southwest; crop, 25 tons.

MISSION SAN JOSE DISTRICT.

J. A. Amaral, Mission San José.—Total, 6 acres; all in bearing; soil sandy loam; vineyard mountain; crop, 19 tons.

C. J. Bond, Mission San José.—Total, 33 acres; in bearing, 25 acres; soil clay and loam; vineyard upland; exposure to wind, east; crop, 125 tons; cooperage, 32,000 gallons, of which 20,000 is oak, and 12,000 is redwood fermenting tanks.

John Borges, Mission San José.—Total, 1 acre; in bearing; soil adobe; vineyard mountain; exposure to sun, west, and to wind, southwest.

This is a very young vineyard.

Barney Briscon, Mission San José.—Total, 5 acres; all in bearing; soil adobe; vineyard mountain; exposure west and southwest; crop, 15 tons.

Manuel F. Brown, Mission San José.—Total, 9 acres; all in bearing; soil sandy loam; vineyard mountain; exposure west; crop, 50 tons; cooperage, 10,000 gallons, all of which is oak.

Joshua Chadbourne, Mission San José.—Total, 8 acres; all in bearing; soil adobe; vineyard low lying; exposure west; crop, 60 tons.

L. E. Chrantraul, Mission San José.—Total, 37 acres; all in bearing; soil adobe; vineyard rolling upland; exposure west; crop, 60 tons.

Hiram Davis, Mission San José.—Total, 13 acres; all in bearing; planted to wine grapes, 10 acres; to table grapes, 3 acres; soil adobe; vineyard low lying; exposure west; crop, 36 tons.

P. Devaux, Mission San José.—Total, 90 acres; in bearing, 75 acres; planted to Riparia, 25 acres; the Mondeuse, Cabernet Sauvignon, and Beclair grafts have succeeded best; soil adobe and clayey loam; vineyard upland; exposure to sun, southwest, and to wind, west; crop, 200 tons; cooperage, 50,000 gallons, of which 35,000 is oak and 15,000 is redwood.

Dominican Sisters, Mission San José.—Total, 28 acres; all in bearing; soil black loam; vineyard upland; exposure west; crop, 55 tons; cooperage, 29,400 gallons, of which 23,000 is oak and 6,400 is fermenting tanks.

Antone S. Escobar, Mission San José.—Total, 2½ acres; all in bearing; soil adobe; vineyard mountain; exposure west, crop, 8 tons; cooperage, 1,500 gallons, all of which is oak.

Thos. Everson, Mission San José.—Total, 2 acres; all in bearing; soil adobe; vineyard mountain; exposure west and southwest; crop, 4½ tons.

J. A. Folger, Mission San José.—Total, 40 acres; all in bearing; planted to wine grapes, 32 acres; to table grapes, 8 acres; soil adobe; vineyard upland; exposure west and southeast; crop, 100 tons.

E. A. Heron, 1050 Broadway, Oakland.—Total, 15 acres; all in bearing; soil strong black; vineyard upland; exposure to wind, south, and to sun, southeast; crop, 30 tons.

E. W. Hilgard, Berkeley.—Total, 35 acres; all in bearing; planted to Riparia, 18 acres; to Rupestris, 8 acres; to Californica, 9 acres; all of which are grafted and in bearing. Black Burgundy grafts have succeeded best, while Claret Blanche grafts have not done as well. Soil adobe; vineyard rolling; crop, 70 tons.

The vines grafted on Riparia have grown better and bear better crops than upon Rupestris or Californica. The resistance of either of these resistant roots cannot be determined.

C. C. McIver, Mission San José.—Total, 425 acres; in bearing, 400 acres; planted to Riparia, 300 acres; to Californica, 125 acres; 400 acres grafted and in bearing and 25 acres not yet grafted; soil limestone and black loam; vineyard upland and mountain; exposure west; crop, 1,000 tons; cooperage, 500,000 gallons, of which 400,000 is oak and 100,000 is redwood (fermenting tanks).

John D. Matteos, Mission San José.—Total, 8 acres; in bearing, 7½ acres; soil sandy loam; vineyard mountain; exposure west; crop, 14 tons; cooperage, 5,000 gallons, all of which is oak.

J. W. Mussen, Mission San José.—Total, 25 acres; all in bearing; soil adobe; vineyard mountain; exposure to sun, south, and to wind, southwest; crop, 63 tons.

Manuel B. Pais, Mission San José.—Total, 1 acre; in bearing; soil adobe; vineyard mountain; exposure to sun, east, and to wind, southwest; crop, 9 tons; cooperage, 1,500 gallons.

Palmdale Vineyard Co., Irvington.—Total, 600 acres; all in bearing; planted to Riparia, 10 acres, and to Californica, 20 acres; all of these are grafted and in bearing; soil mostly adobe, also gravelly in some places; vineyard upland; exposure westerly; 15 acres of attacked vines have been dug up, and gas lime has been used on the soil; crop, 2,400 tons; cooperage (estimated), 1,250,000 gallons, of which 800,000 is oak and 450,000 is redwood.

C. W. Pinkerton, Mission San José.—Total, 15 acres; all in bearing; soil sandy loam; vineyard upland; exposure west; crop, 45 tons.

Frank Pinnero, Mission San José.—Total, 13 acres; all in bearing; soil sandy loam; vineyard mountain; crop, 45 tons.

Frank Pinnero, Mission San José.—Total, 4 acres; all in bearing; soil adobe; vineyard mountain; exposure to sun, east, and to wind, southwest; crop, 14 tons; cooperage, 2,000 gallons, all of which is oak; and 1,000 gallons of fermenting tanks.

Jos. Pio, Mission San José.—Total, 7 acres; all in bearing; soil sandy loam; crop, 16 tons; cooperage, 5,000 gallons, all of which is oak.

Manuel Joseph Redriguez, Mission San José.—Total, 1 acre, which is in bearing; soil black loam; vineyard upland; exposure west; crop, 2 tons; cooperage, 300 gallons, all of which is oak.

John Riehr, Mission San José.—Total, 30 acres; in bearing, 25 acres; soil clayey loam; vineyard upland; exposure to sun, northwest and south, and to wind, west; crop, 75 tons; cooperage, 35,000 gallons, of which 12,000 is oak and 8,000 is redwood; also, 15,000 in fermenting tanks.

J. A. Salazar, Mission San José.—Total, 80 acres; all in bearing; soil adobe; vineyard upland (rolling hills); exposure west; crop, 450 tons; cooperage, 100,000 gallons, of which 40,000 is oak and 60,000 is redwood.

Antone Silver, Mission San José.—Total, 6½ acres; all in bearing; soil sandy loam; vineyard mountain; crop, 21 tons.

John B. Silver, Mission San José.—Total, 1½ acres; all in bearing; soil adobe; vineyard mountain; exposure southwest; crop, 4½ tons; cooperage, 600 gallons.

O. O. Slayton, Mission San José.—Total, 3 acres; all in bearing; soil adobe and sandy loam; vineyard upland; exposure south and west; crop, 15 acres; cooperage, 2,500 gallons, all of which is oak.

Jas. R. Taylor, Mission San José.—Total, 1 acre, which is in bearing; soil adobe; vineyard mountain; exposure west; crop, 2½ tons; cooperage, 500 gallons, all of which is oak.

Wm. Vargas, Mission San José.—Total, 4 acres; in bearing, 1½ acres; soil clayey loam; vineyard upland; exposure south; crop, 4½ tons.

G. Zoll, Irvington.—Total, 15 acres; all in bearing; soil sandy loam; vineyard upland; exposure west; crop, 40 tons; cooperage, 40,000 gallons, of which 33,000 is oak and 7,000 is redwood.

WARM SPRINGS DISTRICT.

John L. Beard, Warm Springs.—Total, 233 acres; all in bearing; planted to wine grapes, 203 acres; to table grapes, 30 acres; planted to Californica, 3 acres; all of which are grafted and in bearing; soil adobe; vineyard low lying and upland; exposure westerly; crop, 440 tons; cooperage, 140,000 gallons, of which 25,000 is oak and 115,000 is redwood.

Manuel Brown, Warm Springs.—Total, 18 acres; all in bearing; soil black loam; vineyard low lying; exposure west; crop, 20 tons.

Henry Curtner, Warm Springs.—Total, 40 acres; all in bearing; planted to wine grapes, 36 acres; to table grapes, 4 acres; soil clayey loam; vineyard upland; exposure west; crop, 68 tons.

M. W. Dixon, Warm Springs.—Total, 40 acres; soil black loam; vineyard low lying; exposure west; crop, 100 tons.

Chas. N. Felton, Warm Springs.—Total, 55 acres; all in bearing; planted to wine grapes, 49½ acres; to table grapes, 4 acres; to raisin grapes, 1½ acres; soil heavy black loam; vineyard low lying; exposure west; crop, 155 tons.

Paula S. Higuera, Warm Springs.—Total, 22 acres; all in bearing; soil adobe; vineyard upland; exposure west; crop, 60 tons.

Thos. Millard, Warm Springs.—Total, 7 acres; all in bearing; soil adobe; vineyard mountain; exposure west; crop, 20 tons.

H. H. Pohlmann, Warm Springs.—Total, 3 acres; all in bearing; soil black loam; vineyard low lying; exposure west; crop, 4½ tons; cooperage, 4,400 gallons, of which 2,000 is oak and 2,400 is redwood.

John Power, Warm Springs.—Total, 30 acres; all in bearing; soil adobe; vineyard upland; exposure west; crop, 46 tons.

Antone Varigas Praira, Warm Springs.—Total, 14 acres; all in bearing; soil adobe; vineyard upland; crop, 40 tons.

S. Rainey, Warm Springs.—Total, 63 acres; all in bearing; soil adobe; vineyard upland; exposure west; crop, 206 tons.

M. M. Rose, Warm Springs.—Total, 2 acres; soil adobe; vineyard low lying; crop, 5 tons; cooperage, 400 gallons, all of which is oak.

H. R. Shaw, Warm Springs.—Total, 6 acres; all in bearing; planted to raisin grapes, 6 acres; soil adobe; vineyard low lying; crop, 5 tons.

Josiah W. Stanford, Warm Springs.—Total, 275 acres; all in bearing; soil adobe; vineyard low lying, upland, and mountain; exposure southwest; crop, 1,000 tons; cooperage, 320,000 gallons, of which 294,000 is oak and 26,000 is redwood.

Josiah W. Stanford and Sisters, Warm Springs.—Total, 35 acres; all in bearing; soil adobe; vineyard low lying; exposure west; crop, 131 tons.

T. J. Tuohig, Warm Springs.—Total, 5 acres; all in bearing; planted to wine grapes, 4 acres; to table grapes, 1 acre; soil black loam; vineyard low lying; exposure west; crop, 10 tons.

Conrad Weller, Warm Springs.—Total, 32½ acres; all in bearing; planted to wine grapes, 31½ acres; to table grapes ½ acre; to raisin grapes, ½ acre; soil adobe; vineyard low lying; exposure west; crop, 200 tons; cooperage, 70,000 gallons, of which 50,000 is oak and 20,000 is redwood.

P. J. Williams, Warm Springs.—Total, 5 acres; all in bearing; soil black loam; vineyard low lying; exposure west; crop, 10 tons.

VALLECITOS DISTRICT.

John Kohler, Vallecitos.—Total, 2 acres; all in bearing, and all planted to table grapes; soil red gravel; vineyard upland; exposure to sun, southeast, and to wind, southwest; crop, 4 tons.

John Henrichs, San Francisco.—Total, 1 acre, which is in bearing, and planted to table grapes; soil black loam; vineyard low lying; exposure northwest; crop, 1 ton.

George Schroeder, Vallecitos.—Total, $\frac{1}{2}$ acre; all in bearing, and planted to table grapes; soil black loam; vineyard low lying; exposure northwest; crop, $\frac{1}{2}$ ton.

HAYWARDS DISTRICT.

Manuel D. Avila, Haywards.—Total, $1\frac{1}{2}$ acres; all in bearing; soil dark loam; vineyard low lying; exposure west; crop, 4 tons.

John I. Azevedo, Haywards.—Total, 1 acre, which is in bearing, and planted to table grapes; soil dark loam; vineyard low lying; exposure west; crop, 2 tons.

Antonio Cardoza (estate of), Haywards.—Total, $1\frac{1}{2}$ acres; in bearing; soil dark loam; vineyard low lying; exposure west; crop, 3 tons.

Cesario G. da Rosa, Haywards.—Total, 4 acres; all in bearing; planted to table grapes, 1 acre; soil dark loam; vineyard low lying; exposure west; crop, 9 tons.

Manuel da Rosa, Haywards.—Total, 1 acre; in bearing, and planted to table grapes; soil sandy loam; vineyard low lying; exposure west; crop, $1\frac{1}{2}$ tons.

Antonio C. da Silva, Haywards.—Total, 6 acres; in bearing, 3 acres; planted to table grapes, 1 acre; soil dark loam; vineyard low lying; exposure west; crop, 6 tons.

José Francis, Haywards.—Total, $1\frac{1}{2}$ acres; all in bearing, and planted to table grapes; soil dark sandy loam; vineyard low lying; exposure west; crop, 3 tons.

John Goulart, Haywards.—Total, $\frac{1}{2}$ acre; in bearing, and planted to table grapes; soil dark loam; vineyard low lying; exposure west; crop, $1\frac{1}{2}$ tons.

José Goulart, Haywards.—Total, 2 acres; all in bearing, and planted to table grapes; soil dark sandy loam; vineyard low lying; exposure west; crop, 5 tons.

J. S. Kelly, Haywards.—Total, 2 acres; all in bearing, and planted to table grapes; soil dark loam; vineyard low lying; exposure west; crop, $3\frac{1}{2}$ tons.

D. C. Kennedy, Haywards.—Total, 16 acres; all in bearing; planted to wine grapes, 6 acres; to table grapes, 10 acres; soil sandy loam; vineyard upland; exposure to sun, southwest, and to wind, west; crop, 42 tons.

John Leal, Haywards.—Total, $1\frac{1}{2}$ acres; all in bearing, and all in table grapes; soil loam and adobe; vineyard low lying; exposure west; crop, $2\frac{1}{2}$ tons.

Manuel Leal, Haywards.—Total, $2\frac{1}{2}$ acres; all in bearing, and all planted to table grapes; soil dark sandy loam; vineyard low lying; exposure west; crop, 6 tons.

E. Llewelling, Haywards.—Total, 6 acres; all in bearing; planted to wine grapes, 3 acres; to table grapes, 3 acres; soil dark loam; vineyard low lying; exposure west; crop, 17 tons.

Manuel Martin, Haywards.—Total, $1\frac{1}{2}$ acres; all in bearing, and all in table grapes; soil dark sandy loam; vineyard low lying; exposure west; crop, $3\frac{1}{2}$ tons.

Manuel Martins, Haywards.—Total, 1 acre; all in bearing, and planted to table grapes; soil dark gravelly loam; vineyard low lying; exposure west; crop, $1\frac{1}{2}$ tons.

Frank Mendonca, Haywards.—Total, 2 acres; all in bearing; soil dark loam; vineyard low lying; exposure west; crop, 5 tons.

Manuel Muniz, Haywards.—Total, 7 acres; in bearing, 5 acres; in wine grapes, 2 acres; in table grapes, 5 acres; soil sandy loam; vineyard low lying; exposure to wind, west; crop, 20 tons.

Fernando Nunes, Haywards.—Total, 1 acre; in bearing, and planted to table grapes; soil loam; vineyard low lying; exposure west; crop, 2 tons.

Manuel R. Pinheiro, Haywards.—Total, 1 acre; in bearing, and planted to table grapes; soil dark loam; vineyard low lying; exposure west; crop, $1\frac{1}{2}$ tons.

Manuel Rebeiro, Haywards.—Total, 1 acre; in bearing, and planted to wine grapes; soil black loam; vineyard low lying; exposure west; crop, 2 tons.

Manuel F. Rosa, Haywards.—Total, 1 acre; in bearing, and planted to table grapes; soil dark loam; vineyard low lying; exposure west; crop, $2\frac{1}{2}$ tons.

Guilherme P. Silva, Haywards.—Total, $\frac{1}{2}$ acre; in bearing, and planted to table grapes; soil dark sandy loam; vineyard low lying; exposure west; crop, 1 ton.

John Smith, Haywards.—Total, 1 acre; in bearing, and planted to table grapes; soil loam; vineyard low lying; exposure west; crop, 5 tons.

Manuel S. Sopes, Haywards.—Total, 1 acre; in bearing; soil sandy loam; vineyard low lying; exposure west; crop, $2\frac{1}{2}$ tons.

José E. Souza, Haywards.—Total, 1 acre; in bearing, and planted to table grapes; soil dark loam; vineyard low lying; exposure west; crop, $2\frac{1}{2}$ tons.

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