

C. Kmg, of St. Helena; C. Anduran, of Napa; J. DeTurk, of Santa Rosa; Wm. McP. Hill, of Sonoma, and J. L. Beringer, of St. Helena. On White Wines—Prof. Husmann, of Talcoo Vineyard; Chas. Bunschu, of Sonoma; H. W. Crabb, of Oakville; Col. Wm. Scheffer, of St. Helena, and O. W. Craig, of Sonoma. On Port and Sherry—Geo. West, of Stockton; Chas. Wetmore, of San Francisco; Chas. LeFraue of San Jose; Chas. Kohler, of San Francisco, and Capt. Niebaum, of Rutherford.



Samples of wine for exhibition should be sent to the Society in the care of J. A. McClelland, Napa.

The convention will be called to order at 10 o'clock and the exercises will be carried out in the following order:

1st. Music by the Band.  
2d. Opening Address by President M. M. Estee.

3d. Discussion of Viticultural Interests. The following motion was introduced and has been suggested for discussion:—"Preparing Ground, and the Proper Soil for Vineyards;" "Variety of Grapes to Plant;" "Cultivation, Pruning and Training;" "Insects, injurious or beneficial to the vines;" "The Vines and their value," and "Wine-Making."

4th Reports of committee on sample wines.

Lunch will be served without charge to all invited guests at 12:30 o'clock p. m.

### The Wines of Germany.

To the Romans, from whom they undoubtedly derived their civilization, the Germans ascribe the introduction of the vine into their country, and both civilization and the vine were for many centuries fostered and promoted chiefly under the care of the Roman monarchs. It is recorded in "History of Ancient and Modern Wines," it is true, throws some doubt upon the share of the Romans in this matter, and asserts that when Tacitus wrote his description of Germany it is clear no vineyards existed, but he admits that the German soil was unpropitious to every kind of fruit tree. It was not probably, at any rate, till towards the reign of Charlemagne, between 768 and 814, that any attempts were made to clear the banks of the Rhine, which were, until then, clothed with wood, and to plant them with vines. It is recorded of this Emperor that he deemed nothing beneath his attention which concerned the interests of his empire or of his subjects. He required the Germans to plant certain kinds of fruit trees, the cultivation of which was then northern in Europe. From this period the agriculture of Germany continued to improve, and such has been the amelioration of the climate, that now it freely admits of the culture of the vine, in some places even so far as the southern degree of northern latitude. The best German wines, indeed, are grown beyond the line which has been assigned for the successful cultivation of the vine in France.

The average production of wine and the extent of vine-land in the principal producing districts of Germany is as under:

	Gallons.	Atres.
Alsace-Lorraine.....	26,400,000	80,000
Baden .....	14,124,000	50,000
Württemberg.....	9,614,000	65,000
Hessia .....	5,082,000	22,500
Bavaria .....	17,600,000	55,000
Rheinland .....	1,540,000	8,750
Moselle .....	7,400,000	22,500

Of the above the wines of Alsace-Lorraine, Baden, and Württemberg are thin and poor, and are chiefly consumed in the country. Much of this inferiority in quality is no doubt due to the lowness of temperature, caused by the cool airs which come from the snow-capped summits of the Alps. The wines of Hessia and Bavaria are full, sweet wines, with good bouquet. Among the best of these are the Liebfraunlich, Forster, Niersteiner and Scharlachberg wines, which are nearly equal to the Rheingau wines. The wines of the Moselle and the Rhine, however, and these are much appreciated, though they are thinner than Rhine wines. Of all the vine-growing districts of Germany, however, the Rheingau produces, in good vintage years, the finest wines, the bouquet and flavor of which are of great character and delicacy. The choicest vintages, as already

Some excellent red wines, having good bouquet and taste, are produced also in favorable seasons in Nassau, Württemberg, Bavaria and the Grand Duchy of Baden. The finer growths of German wines are produced on either side of the Rhine, in the neighborhood of Mayence. Those of the left bank, while they are less body, have the same rich character and bouquet. The choicest vintages, as already

remarked, are produced in the Rheingau, a district of about nine miles in length by about four in breadth, extending along the right bank of the river, and yielding about four-sevenths as much wine as the Sherry district proper. The river, at this part, makes a curve, and the vineyards are sheltered from the north wind, which fact with the special character of the soil and the immediate proximity to the Moselle, on the Rhine, which are said to have the effect of concentrating the sun's rays—reflected from the surface of the river as from a mirror—upon the vine-clad slopes, is supposed to account to some extent for the excellence of the wines. The vineyarders of the Rhine the greatest attention is given here to the cultivation of the vines, which are also carefully manured. The annual produce of the Rheingau averages about a million gallons. The wines known as Palatinate wines are relatively cheap, and have a not very great keeping qualities, but are largely consumed in Germany, holding much the same position in comparison to Rheingau wines as Marsala does to Sherry in England. The Palatinate yields about one-ninth of the entire produce of Germany. The wine of this district is bottled in this country by the peculiar bottles in which they are shipped—"bocksbeutel"—but they are not much adapted to English taste, being of rather a too pronounced character.

Among the leading descriptions of vine plants in the German vineyards, the *Riesling* stands out pre-eminent. It is generally planted on the rocky mountain slopes, and the small bunches of white grapes which it produces ripen only in years of high temperature, but it is the case that these grapes are of high quality characteristics of which develop themselves only the more as the wine becomes older. On the lower lands the species of vines known as the *Kleinberger* and *Oestricher* are planted, the grapes of which ripen more easily, produce a wine less than the *Riesling* grape. The French vine—the *pinus* and *gros blanc* are also cultivated in Germany. One-half of the vines, however, grown on the banks of the Rhine consist of Riesling plants, and it is probable that this is indigenous to the Rhine valley; as although the Riesling grape has never been found to yield fruit of such quality as in the Rheingau district.

The process of making a new vintage in Germany consists in planting cuttings two or three feet deep, which will commence to bear fruit in the second year, and the virgin vine from which is much esteemed. The duration of a vineyard is from twenty-five to sixty years, according to the soil and the treatment the vines receive. The best position for the vines is looking south-west, the vines being more exposed to the sun, while the most suitable soil is composed of clay, slate, loam, with some little iron, which latter is considered to give quality to the wine and to add to the durability of the vines. The best plants, as we have already remarked, are the Riesling, Steinberg, Graefenberg and the qualities here enumerated are united in the best vineyards of the Rheingau.

The vine of Schloss Johannisberg—one of the best growths of the Rheingau—is reputed to be the king of German wines. It is the product of a vine of the same name, situated in the province of Nassau, on the right bank of the Rhine, about twelve miles from Wiesbaden. The population of Johannisberg consists of seven to eight hundred inhabitants. In the neighborhood, also, are the much-esteemed Rüdesheim, Steinberg, Graefenberg and Rautenthal vineyards. The vineyard of Johannisberg is said to have been planted about the year 1009, by monks, under the direction of Rutherford, Archbishop of Mayence. During the long struggle of the Thirty Years' War it was almost entirely destroyed. In 1722, however, the Abbot of Fulda built a chateau on the site where the Convent had previously stood, and replanted the vineyards. As

an illustration of the care and attention bestowed upon the vines, the garden vineyard, that, previous to the coming of the vintages at Johannisberg, the written permission of the Abbot had to be obtained. On one occasion, owing to sickness, or some other cause, this necessary permission was denied, and the grapes were already becoming rotten and the vintages of the vineyard were commenced. By

what was supposed, however, to be a special dispensation of Providence, the wine of that year proved to be of finer quality than that of any previous vintage, and to this fact is supposed to be due the practice of commencing the vintage at Johannisberg and elsewhere in the Rheingau always at as late a date as possible. A portion of the celebrity of the wines of Schloss Johannisberg is due to the fact that the property having passed into the hands of Prince Metternich. Some rich hankers of the time, desirous of securing the favor of the all-powerful Minister, contracted to take the Schloss-Johannisberg vintage for the first three years of the century, the Prince, throwing his interest into the bargain, the wine was re-sold at a rate which left a profit to the happy purchasers of some fifteen to twenty per cent., while in addition the Prince had the gratification to see the value of his property increase beyond his most sanguine expectations.

A story is told, in illustration of the remarks made above as to the late period at which the Johannisberg vintage takes place, which would appear to show that, although this arrangement may have at first originated in chance, it still rests upon good grounds. It is said that in the year 1857 the Princess Metternich, with a large party of French guests, was staying at the Chateau. Being anxious that her visitors should on this occasion witness the operations of the vintage, she, somewhat after the manner of King Canute of old, decided to give orders to the vineyarders, in ordinary laws which govern not only the tides but the seasons, that the vintage should take place some two or three weeks earlier than usual. The result might have been anticipated, for the wines of Schloss Johannisberg, which in former years had realized enormous prices, proved, so far as quality was concerned, more or less a failure.

Schloss-Johannisberg is the produce of the vines immediately around the Chateau, though it is not uncommon to meet with other vines bearing the name of Johannisberg. The extent of the vineyard is about ninety acres, and the quantity produced about 32,500 bottles yearly. This Chateau is situated on a considerable eminence, and below it are immense cellars, Johannisberg being famous for its wine of great strength, of a beautiful amber color, and somewhat pungent flavor. That of the more celebrated vineyards has been known to be sold from the Schloss-Johannisberg cellars at thirty-three to thirty-five shillings per bottle, and, however, the wine of such course is rather due to its reputation than to the intrinsic value of the wine.

Next to the Johannisberg may be classed the Steinberg wines, which are the strongest of all Rhine wines, and have much sweetness and delicacy of flavor. At Rüdesheim, also, opposite to Bingen, on the rocky slope of the hill, some wines are produced which are considered to be little inferior in flavor to Johannisberg. The vineyards from which these wines are derived are placed upon the bare rock and have been planted in the most favorable manure, which has been carried up in baskets. The great advantage the vines here possess is in the situation, which allows the grapes more often to ripen fully, and thus give to the wine considerable flavor and bouquet. Of late years the practice has sprung up of employing cut-over-ripe grapes in the production of Steinbergs, as has been the custom with the Schloss-Johannisberg. The finest berries only are chosen for the Cabinet Steinberg, Auslese, and these are gathered with the greatest care, and never while the dew is upon the fruit. Among the other best known varieties of German wine are those of the vineyards of Graefenberg, Markbrunne and Rautenthal.

Hockheimer is the produce of a comparatively small district, but is situated on the banks of the Maine, several miles above its confluence with the Rhine. The name Hockheimer has been known for upwards of 200 years in England, and, so far back, originally included and denoted only the Moselle wines, produced near Worms, have considerable body, flavor and aroma, compared to which those of Nierstein are of a lighter quality, though possessing considerable bouquet. The wines of Moselle occupy a secondary place among German wines, although in favorable seasons they

are characterized by a light, pleasant flavor and considerable aroma. The principal red wine produced in Germany is grown at Naussauhausen, a little below Rüdesheim. The yield of this wine, however, is comparatively trifling. It resembles in character the good growths of Burgundy.

Great care is bestowed in Germany upon the process of the vintage, which is usually made as late as possible. German, like French, wine is fermented in casks, and most respects, indeed, the plan pursued is the same as in France, except that the wine is fermented in casks in place of vats. From this practice arises a great difference in wines even of the same estate and vintage. Some of the vintages are often sold with variation in the price, the small quantity of wine produced on the one and the same estate. Thus, while claret of one vineyard will all be of the same quality, it is the contrary with Rhine wines. If Schloss Johannisberg, or Steinberg, yield 30 *sticks*, each *stick* being sold at public auction, in a vintage year prices have been known to vary from £70 to £100 the *stick*. After being gathered, as they attain ripeness, the grapes are pressed, and the fermentation is commenced in the casks. The wine having been duly racked and fined, the wine is transferred to other casks, which are kept constantly filled up, and where it mellow and improves with age, the contents of each cask being separate and distinct. Some of these casks are of enormous size, as, for example, the well-known one of Heideberg, in the cellar under the famous castle of that name, which is 36 feet long and 24 feet high, and capable of containing 800 hogsheads. The proper treatment of German wines after fermentation is a matter of great importance, and the vines should be taken off the vines in February, and racked again before the period known as the flowering of the vine sets in. Some proprietors, allow the lees to run in a year in the wine—a process which gives it a fuller and sweeter taste. Several years are required to get the wine fit for bottling—in fact, no wine in the world requires more careful treatment than hock—as there is no fixed period at which the wine will complete its fermentation. Indeed, the fine Schloss-Johannisberg wine is not ready for bottling until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the great difficulties that German wines have to contend against is the fact that the wine is not ready for export until it is in a fit condition for bottling. During this period the wines while in Germany receive the greatest attention, being tested at frequent intervals. Undoubtedly, one of the



Nor the first sparkle of the desert spring,  
Nor Burgundy in all its sunset glow,  
Nor the sweet, cool, clear, and sparkling water,  
Vine with that draught of hock and soda-water.

The prevailing notion as to acidity in Rhine wines is entirely an erroneous one, the fact being that although comparatively weak in alcohol they are especially free from liability to this defect. They are, it is true, not so strong as French wines, but that arises rather from the fact that the saccharine quality in the grape is almost entirely absorbed in the fermentation, which is very perfect. Hence it is that hock of a good vintage, although of less alcoholic strength than French wines, has extreme durability, and will keep for long time; and after a certain number of years, in place of becoming acid, it appears rather to concentrate its flavor, and at the same time to increase in that from a light ale to a deep straw color. At the Vienna Universal Exhibition of 1873 a sample of Hockheimer was shown no less than 167 years old, that is to say of the vintage of 1706. It is true, it was sent more as a curiosity than anything else, and little of its original quality, except the color, remained. It is something, however, to say as much as this for any wine, especially *unfortified*, for it must be remembered that while German wines are originally very low in alcoholic strength, it would be regarded as little less than saccharine to be drunk as such, without the use of ports, sherries and other strong wines. The alcoholic strength of the principal German wines ranges from 15 to 25 degrees of proof spirit, the higher strength being found principally in the Rheingau and Moselle, the lower in the district of red wines, such as much as 20 degrees, while the wines of the Moselle district range usually from 14 to 22 degrees.

In "Practical Notes on Wine," by Edward Lonsdale Beckwith, associate-juror and reporter on wines at the Paris Exhibition, 1867, the author remarks: "Rhine wine is more than any other wine, marked on account of the great skill and industry displayed in their production, and the high state of perfection to which the Germans have brought their vineyards. I have no hesitation in stating, as my deliberate opinion, that there were one medal only which could not be said to be the exhibitor of the finest possible wine, illustrative of what nature, aided by industry and improved by science, can effect, that medal should be at once awarded to Johannisberg. It is the Chateau Margaux of the Rhine, as that district is called, and it is not to be out of place, however, to warn purchasers who pay a very high price for Johannisberg that there is a marked difference between the qualities. Johannisberg Schloss is one wine, Johannisberg district is another. The same remark applies to the other districts, though the Chateau Margaux being of the very highest class, while the district Margaux, an area of much wider extent, produces both good and bad wines."

To this we may add a remark of Dr. Druitt in his "Report on Cheap Wines," which is somewhat more emphatic, and dedicated to Mr. Gladstone, in which he says: "I am unwilling to finish these pages without at least a respectful mention of those noble vineyards of the Rhine, which afford such models of what wine ought to be. But I am not a person who follows almost imperishable through their purity, and with marked fragrance of the true vinous character, the Rheish wines are the wines for intellectual gaiety. They increase appetite, they exhilarate without producing heaviness and fatigue afterward, and they turn the blood. The higher class of Rhineish wines differ remarkably in their flavors, but a rule are all very useful in cases in which we need to support the nervous system, clean the tongue, quench the thirst, and oxidize the blood. But I am not a person who follows with plenary, his face just dusky, turn from sherry and grasp at a goblet of Rudesheim!" If, indeed, we except perhaps claret, there is not a healthier wine to consume in the world than hock, it being, in this respect, the only wine of which the grape is cultivated without the addition of any extraneous what-ever. It has at the same time greater aromatic properties than most of the white wines of France and other countries, possessing also those special qualities which render it all times an agreeable drink, the consumption of which

—unlike in this respect those wines which have a greater amount of saccharine—is always refreshing. This is confirmed by the experience of all those who have traveled on the Rhine, and where it is possible to see a more healthy population than there exists, while such a thing as drunkenness is almost wholly unknown. With all this, too, look at the trouble and care bestowed upon the cultivation of the German vineyards. It is true, the vine is not so early as that the mature has to be carried up in small baskets, and walls require to be erected about every fifty yards to prevent the earth from slipping down. Add to this the constant labor the vineyards demand for the most clear, from the early spring weeds which spring up so rapidly under the intense heat; and then how trying to know that in nine years out of ten all this labor may be in vain, and the vines produce only unripe grapes not equal in value to the money expenditure upon them during the year. It is true, it is the change when a good vintage does come. Then free are lighted at the close of the vintage, the prettiest girl is selected as harvest bride, and the simple festivities which prevail everywhere show how thoroughly the joy of the vintage is entered into by the German peasantry.

Before concluding this brief account of the vines of a very interesting country, we should add that sparkling wines, under the names of sparkling wines and Moselle, are produced in many parts of Germany, and great improvements have taken place in their manufacture of recent years. While lacking perhaps some of the lightness and delicacy of champagne, they have distinct characteristics of their own, including in some instances, a rich natural aroma, or, as is the case with the champagne, an artificially scented bouquet. The trade in this class of wines is stated to have been an increasing one of late years, the principal portion of which, however, is with England. The bottling of champagne and sparkling wines is done in exactly similar manner to that adopted with champagnes, and they are shipped principally from Mayence, Coblenz, or Frankfort.

Among the leading German houses connected with the English trade we may mention those of Hunkeler, of Cologne, and Honckel & Co., at Mayence; and Muller at Eltville. The cellars at all the above places are exceedingly fine, perhaps the best in the world. Those of Messrs. Hunkeler, for instance, are double cellars, divided into two stories, the lower story Roman camps, and occupy 70,000 square feet of land. They are constructed in solid stone, all the soil to the depth of thirty-five feet having been removed for the purpose. In the same cellars are stored up, in some of the racks 250 and other double stacks to 500, containing the wines in wood, besides upwards of 100,000 bottles of still, and 400,000 bottles of sparkling wines.

Great hopes are entertained by the Germans that they may be favored this year with a good vintage. There is, however, we are assured, a stock of old hocks and Mosells still on hand in Germany which, as light wines, are worthy the attention of merchants and consumers in England, while for quality, they will be found at the present time to compare favorably in price and value, with the light wines of other countries.

#### Notes.

The Grape-growers' Society of St. Helena have appointed a committee consisting of J. J. McIntyre, Seneca Ewer and H. A. Pellet, to confer with Assessor Kean in reference to the assessment of vineyards under the late instructions of the State Board of Equalization. The members of the society suggested a classification of vineyards according to production, others according to age, and some recommended a division in 1st, 2d and 3d classes, according to the age and productiveness of the vines. As the practice that prevails in assessing vines in this district is that the vines are assessed on the basis of the acreage, this is a matter of considerable importance to vine-growers. —Napa Reporter.

Grape-growing is receiving considerable more attention this year among San Joaquin farmers than ever before. The Stockton Independent says there is unusual activity among farmers in the direction of growing out vines. It is claimed that some portions

of the San Joaquin Valley cannot be excelled in cheapness and adaptability of soil for the grape in the whole State of California. The climate is believed to be admirably suited for vineyards, as for years the frost has been almost entirely unknown to the extent. Within a very short period over 700 acres have been planted to vines, and at least 3,000 acres more have been selected for the purpose of cultivating the grape before another year elapses.

Statistics of production of wines during the last fifteen years (condensed from *Le Monitor Vinicole*):

	Hectolites.
1868	50,109,504
1869	71,375,965
1870	53,537,942
1871	57,084,054
1872	59,928,182
1873	35,769,019
1874	63,616,125
1875	83,632,391
1876	41,846,748
1877	56,405,363
1878	48,720,553
1879	25,769,532
1880	59,699,019
1881	34,186,735
1882	30,838,352

\* A hectolite is 26.41 gallons.

The average production for five years, from 1878 to 1882 inclusive, was 50,527,129 hectolites; the average from 1873 to 1877 inclusive, was 56,160,499 hectolites; and that from 1878 to 1882 inclusive, was 33,838,529 hectolites. Number of hectares in cultivation in 1882, 2,135,349.—*Wine and Fruit Grower.*

It has been discovered by experience that rooted cuttings are more certain to live, when planted out carefully in vineyards, than the unsprouted cuttings. Acting upon this fact, an enterprising owner of a five-acre tract of land near Santa Rosa has planted his possessions thickly with grape cuttings of fine varieties, with the expectation of selling the rooted vines next year at a considerably advanced figure over the cost and interest upon the experiment. While we do not know that this would be a business that would be profitable for many persons to venture upon, nevertheless all vineyardists who propose to extend their area of vines should have cuttings put into the ground in every corner, to replace those vines which may have not taken growth, or to fill future possibilities of a demand. As many parties are now venturing into vine cultivation on the spur of the moment as a good investment for capital, they would prefer to purchase rooted cuttings and thus save one year of growth otherwise that would be lost to them. Here is a hint for people of small means with small plots of lands that may be made available for money getting.—Napa Reporter.

A reliable wine paper of France having gathered material to fix the amount of wines produced in several European countries, reports as follows: The crop of Spain in good years has been 740,000,000 gallons; in middling ones, 580,000,000 gallons; and in bad years, 475,000,000 gallons. Austria-Hungary gathers in, in good years, 634,000,000 gallons; Italy had in 1875, 725,000,000 gallons; in 1879, 927,000,000 gallons; in 1880, 544,000,000 gallons; in 1881, 474,000,000 gallons. The average production of Italy may thus be estimated to reach 25,000,000 of hectolites, or 660,000,000 gallons. The crop of Portugal is not easy to calculate. Good years have given 200,000,000, inferior ones 158,000,000, but according to other statisticians it was not more than 100,000,000 gallons; and still less, viz: 37,000,000 is alleged to be the amount of wine harvested, upon the authority of persons acquainted with the subject. It is certainly difficult in general to collect reports having the statistical figures exactly or nearly alike, and it may be left to every one to consider or not the above figures absolute.

Different varieties of grapes require different treatment, and unlike most other fruits in this respect. The variety we wish to speak of specially is the Muscat of Alexandria. Raisin-makers have been experimenting with this variety for years, and they have made very encouraging progress; but every one who has the least knowledge to be learned. We think one of the great-

est mistakes made in the treatment of this variety is in staking up the vines, as is often done with the Mission and other wine grapes. For several reasons the Muscat should be kept as near the ground as possible, if the fruit is to be manufactured into raisins. We have not had experience on different soils, but the low-trained vine is undoubtedly preferable in warm, sandy or gravelly land. The clusters growing on or near the ground are invariably larger and sweeter, and the berries more plump, than those which hang fifteen or twenty inches above the earth. We have often picked more than forty pounds of large and perfect grapes from a low-trained vine, when the one next to it, if it happened to be a fine wine, would never produce over twenty pounds and the fruit would almost invariably be small and insipid. When the Muscat grape is allowed to grow up from the ground the harshness of the air or sunshine has a tendency to toughen the skin, and thus rendering it unsuitable for a second-class raisin only, but when near the ground it is protected by the foliage of the vine, which is always more rank and thrifty when the vines are pruned low.—*Santa Ana Standard.*

Mr. I. De Turk, of Santa Rosa, says: "I would by all means discourage the planting of Mission vines. In fact, it is my opinion that every vintner who is so unfortunate as to have Missions in the vineyard should hasten to graft some standard variety to the Mission stock, for in a short time there will be no market for the Mission wine. Already the trade is waning, and as sales are looking more particularly for the class of fine wine, manifesting no desire to purchase inferior brands. As the production of wines increase, just in that proportion will the market for Mission decrease. It is useless for someone to attempt to attempt to vie with the French and other Southern varieties in the matter of quantity, for we never can successfully do so. Our forte is quality, and vintners who disparage this fact and waste fine lands in the production of common grapes are making a great mistake. The French and other Southern varieties of those parts of France which manufacture wine for the peasantry, but Sonoma, like the famous vineyards of that European country, is destined to manufacture the rare and splendid vintages, whose production is almost entirely monopolized by the grapes of the Chateau Lafite and Margaux. In France one and a half to two tons of grapes is the average yield per acre, and these are the vineyards which are mines of wealth; therefore Mission and all such common varieties should not be propagated in Sonoma. Mission vines have been planted in Sonoma, and in fact I did not utilize in the manufacture of Sherry, it could hardly afford to bother with it at all."—*St. Helena Times.*

We regret to announce that J. Bamiller, a well known and esteemed citizen of Los Angeles, who erected, only a year ago, a large winery in that city, has committed suicide by shooting himself through the head. It seems that he was prospering in business, and in easy circumstances financially, but of late had shown symptoms of insanity.

#### WINE REPORT.

Imports, 1 foreign wine, 343 casks champagne, Exports, 240 of foreign wine, 360 of native wine, 7 casks champagne.

The following cellars in St. Helena have been sold at public auction for Dry Wines by the entire cellar, and from 35 to 40 for picked choice lots: York, California, 1881, 1882, 1883, 1884, 1885, 1886, 1887, 1888, 1889, 1890, 1891, 1892, 1893, 1894, 1895, 1896, 1897, 1898, 1899, 1900, 1901, 1902, 1903, 1904, 1905, 1906, 1907, 1908, 1909, 1910, 1911, 1912, 1913, 1914, 1915, 1916, 1917, 1918, 1919, 1920, 1921, 1922, 1923, 1924, 1925, 1926, 1927, 1928, 1929, 1930, 1931, 1932, 1933, 1934, 1935, 1936, 1937, 1938, 1939, 1940, 1941, 1942, 1943, 1944, 1945, 1946, 1947, 1948, 1949, 1950, 1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 2680, 2681, 2682, 2683, 2684, 2685, 2686, 2687, 2688, 2689, 2690, 2691, 2692, 2693, 2694, 2695, 2696, 2697, 2698, 2699, 2700, 2701, 2702, 2703, 2704, 2705, 2706, 2707, 2708, 2709, 2710, 2711, 2712, 2713, 2714, 2715, 2716, 2717, 2718, 2719, 2720, 2721, 2722, 2723, 2724, 2725, 2726, 2727, 2728, 2729, 2730, 2731, 2732, 2733, 2734, 2735, 2736, 2737, 2738, 2739, 2740, 2741, 2742, 2743, 2744, 2745, 2746, 2747, 2748, 2749, 2750, 2751, 2752, 2753, 2754, 2755, 2756, 2757, 2758, 2759, 2760, 2761, 2762, 2763, 2764, 2765, 2766, 2767, 2768, 2769, 2770, 2771, 2772, 2773, 2774, 2775, 2776, 2777, 2778, 2779, 2780, 2781, 2782, 2783, 2784, 2785, 2786, 2787, 2788, 2789, 2790, 2791, 2792, 2793, 2794, 2795, 2796, 2797, 2798, 2799, 2800, 2801, 2802, 2803, 2804, 2805, 2806, 2807, 2808, 2809, 2810, 2811, 2812, 2813, 2814, 2815, 2816, 2817, 2818, 2819, 2820, 2821, 2822, 2823, 2824, 2825, 2826, 2827, 2828, 2829, 2830, 2831, 2832, 2833, 2834, 2835, 2836, 2837, 2838, 2839, 2840, 2841, 2842, 2843, 2844, 2845, 2846, 2847, 2848, 2849, 2850, 2851, 2852, 2853, 2854, 2855, 2856, 2857, 2858, 2859, 2860, 2861, 2862, 2863, 2864, 2865, 2866, 2867, 2868, 2869, 2870, 2871, 2872, 2873, 2874, 2875, 2876, 2877, 2878, 2879, 2880, 2881, 2882, 2883, 2884, 2885, 2886, 2887, 2888, 2889, 2890, 2891, 2892, 2893, 2894, 2895, 2896, 2897, 2898, 2899, 2900, 2901, 2902, 2903, 2904, 2905, 2906, 2907, 2908, 2909, 2910, 2911, 2912, 2913, 2914, 2915, 2916, 2917, 2918, 2919, 2920, 2921, 2922, 2923, 2924, 2925, 2926, 2927, 2928, 2929, 2930, 2931, 2932, 2933, 2934, 2935, 2936, 2937, 2938, 2939, 2940, 2941, 2942, 2943, 2944, 2945, 2946, 2947, 2948, 2949, 2950, 2951, 2952, 2953, 2954, 2955, 2956, 2957, 2958, 2959, 2960, 2961, 2962, 2963, 2964, 2965, 2966, 2967, 2968, 2969, 2970, 2971, 2972, 2973, 2974, 2975, 2976, 2977, 2978, 2979, 2980, 2981, 2982, 2983, 2984, 2985, 2986, 2987, 2988, 2989, 2990, 2991, 2992, 2993, 2994, 2995, 2996, 2997, 2998, 2999, 3000, 3001, 3002, 3003, 3004, 3005, 3006, 3007, 3008, 3009, 3010, 3011, 3012, 3013, 3014, 3015, 3016, 3017, 3018, 3019, 3020, 3021, 3022, 3023, 3024, 3025, 3026, 3027, 3028, 3029, 3030, 3031, 3032, 3033, 3034, 3035, 3036, 3037, 3038, 3039, 3040, 3041, 3042, 3043, 3044, 3045, 3046, 3047, 3048, 3049, 3050, 3051, 3052, 3053, 3054, 3055, 3056, 3057, 3058, 3059, 3060, 3061, 3062, 3063, 3064, 3065, 3066, 3067, 3068, 3069, 3070, 3071, 3072, 3073, 3074, 3075, 3076, 3077, 3078, 3079, 3080, 3081, 3082, 3083, 3084, 3085, 3086, 3087, 3088, 3089, 3090, 3091, 3092, 3093, 3094, 3095, 3096, 3097, 3098, 3099, 3100, 3101, 3