

Advance Sheets

OF THE

CHIEF EXECUTIVE VITICUS TURAL

DFFICER'S ANNUAL REPORT.

This being the season when vineyardists in all parts of the State are selecting the varieties of vines which they will plant, and so many new vineyards and additions to old ones are in contemplation, and Mr. Wetmore is besought every day by letter and personal interrogation for advice on varieties and kindred subjects, be has consented to allow the notes of his Annual Report to be published in the MERCHANT in advance. Had publication been delayed until this report appeared from the State Printing Office it would have been of little use this year to most of our vineyardists. and in departing from the usual rule, Mr. Wetmore confers a material benefit on viticulturists, and saves himself much time and labor in giving information orally or by letter, and is able to impart the advice his great experience dictates in much fuller form than he otherwise could.

WHAT TO PLANT-WHERE TO PLANT.

Mr. C. A. Wetmore sava:

I am continually receiving letters from all parts of the State, asking advice concerning the varieties of vines that should be planted in new vineyards, or the varieties that should be used to improve the products of those already planted by judicious blending. These letters come from so many different places and the problems suggested by their inquiries are so varied that it seems almost impossible to give in one document any adequate guide for all. So much depends on an intimate knowledge of almost infinitely varying conditions of soil and climates, on the purposes, ambitions, and financial ability of planters, on

local wants created by plantations already made, and more especially on the resources of our vineyards to furnish cuttings and vines that I am often conscious of apparent inconsistency in my recommendations. I am often, in the same breath, recommending the cultivation of a certain variety in a certain place and advising the planting of other varietiea-knowing-as I may at the time--that the most desirable may not be obtainable and keeping in mind others that may be equally valuable from other standpoints and at the time within reach of the planter.

d The day will no doubt come when certain places will become devoted mainly to the culture of certain varieties known to produce the best results; but now we can only estimate within certain limits wherein the best average results may be reached, leaving the future to determine where the highest auccess is achieved. There are so many ways of accomplishing success in viticulture in any locality that the vine grower is not confined to any fixed aelection of varieties of vines. One may believe that quantity will pay better than quality; one may prefer fair quality with good quantity to either great quantity and poor quality. or the finest quality, regardless of quantity; one may even believe that the finest quality periment. We know, however, certain gen-

will always be profitable and the safest to pursue, or one may be satisfied that in his locality the finest quality is not attainable and therefore believe that it would be best to compete for cheap prices with large quantity. Again, one may think it safer to produce white wine than to produce red; sweet wine than dry; brandy rather than wine; table or shipping grapes; raisins, etc. And indeed one may prefer to pro-duce raisins but may find that his locality is best suited to wine grapes and vice versa. My own line of policy has been to advise

planters to aim to produce that quality and kind of goods, which their particular localities promise to produce best. I have believed that, if ever we do over-plant grapevines, or "over-do the business" as is often talked about, it will be in producing inferior qualities of grapes, wines, braudies or raisins, which the markets will not be ready to take so long as plenty of better quality is offered. In developing a new industry and opening new markets, we must aim, by the tempting quality of our goods as well as also by cheap prices, especially where we come in coutact with adverse customs and prejudices, to achieve success. This State has so much land to develop, that can be made to produce superior quality, that I do not believe that this generation will see the day, after we have once produced sufficient to satisfy created demands, when good quality will be suffered to waste, while poor quality is marketed.

I know that at present it pays better generally to produce quantity rather than quality, but that has been for aeveral reasons, viz :-- wine makers and buyers have not yet well learned where to detect good quality until after they have had the wines a ored awhile: the markets have needed all that could be produced; and in most vineyards the grapes producing finest quality, have been drowned beyond recognition in inferior lots. The progress that has been made in the last few years in experimenting with single varieties of vines has, however, been very great and although not appreciable vet in the general markets, it has served to guide many planters in grafting over old stocks and in making new plantations. This process of improvement has been systematised to such an extent that in two or

three years more the market csn be supplied with considerable quantities of superior wines and brandies - much finer than any now offered in merchantable lots. Then will commence the true competition among wine and brandy producers, and it is hardly fair to presume that the dealers will fail to secure first for their cellars the most desirable goods. Those who fear that the "business may be overdone" should certainly believe that safety is ou the aids of quality, and danger on the side of inferiority. I myself do believe that the business of making inferior wines, brandies and raisins will be overdone, but that good quality will always find a ready market.

If I am right in this proposition, then I have been right in urging on our people the careful study and selection of varieties of vines-not so much with reference to their fertility as with reference to their value in producing certain qualities after fermentation, distillation or drying. And, as it is known that a certain vine does not produce the same results in all places, and even that where one fails another succeeds, the question of the selection of varieties can only be approximately solved by any procesa of reasoning in advance of actual ex-

vines, something but not a great deal about soils, and we know that success is always to be found, if found at all, within certain limits of aelection. Advice can therefore he given without too large a margin of doubt. I have always felt my conscience clear when I have told a planter the best that is known, and have always tried to make him understand, whenever he is inexperienced, that his percentages of failure will be less where he planta in accordance with an intelligent theory. This I have always been able to demonstrate by appealing to whatever successes we have attained. Our Zinfandel was not propa-gated by accident, but by the advice of intelligent and experienced winemakers, who recognized in it certain good qualities; it has been of great value to us, yet experi ence proves it to be a failure in many placea. It is by applying theory, together with such experience as is now open to study, that we hope to make more rapid progress and fewer failures in the future. Let the beginner not be dismayed by the chance of failure, such as 1 refer to; his vinca will acrys at least as roots to graft vince will acrys at reast as the second upon, when he has determined how to im-prove his plantings. If he is timid, let him plant varieties of known excellence in the tries of the tries. situations of known results. If he tries nnknown spots, let him try to understand why he selects any particular variety before dui

With these remarks I will endeavor to outline the known characteristics and uses of the most prominent varieties of vines that have proved their excellencies and uses wards to suggest certain combinations for vineyards in different parts of the State.

THE RHENISH WHITE WINE VARIETIES.

RIESLING .- This is the noble grape par excellence of the Rhine, excelling in its aro-Properly speaking, there is only one true Riesling, viz: that which is by courtesy called the Johannisberg, after one famous vineyard, where it predominates. Custom has, however, attacked the uame to other varieties, so that when we wish to speak this genuine variety, we must now use the word Johannisberg to identify it. This is a shy bearer, requires long pruning, and succeeds well only on soil of sufficient moisture and strength. (N. B.—I shall speak of characteristics mainly as they are shown in this State, where climatic conditions are different from those of the native homes of the varieties). It is an early ripener, otherwise it could not succeed on the Rhine. Experience in Europe shows that it loses its arom^a and quality when cultivated in warmer countries and aituations, where later ripening varietics come to perfection. On the Rhine the greatest perfection is often obtained only when the berries are left on the vines until long after the usual time of vines until long after the usual time of vintage. This should not be the rule here except under similar circum-stancea, viz: where sufficient saccharine is not obtained early. I believe that we shall not succeed in making fine Riesling wine of Rhenish typa except in such places where over maturity is difficult to obtain, and where at the time of ordinary ripening the must does not exceed twenty-two per cent in augar. In auch places, I believe the excellence of the product will be, as on the Rhine and as with the varieties used in making Santernes in France, improved by leaving the fruit as long as possible on the vines. What soils are not suited to the *Rissling* we do not well know; but we do know that this variety is a failure, as to quality of wine, in the greater number of our wine-producing diatricts, and it is only popular in the coun-ties north of the bay of San Francisco, and west of the Sacramento valley. Other districts appear to be too warm or too dry for it. It would probably do well in Santa Cruz and San Mateo counties, south of the Golden Gate.

STLVANES.-Better known as Franken Riesling: This variety is associated on the Rhine with the Johannisberg in producing the finest wines. It is a fine wine grape, and, until experience proves the contrary, should be limited to the counties where the Riesling is known to make fine wine. This is showing be infinited to the country where the another fitshing in the found infi-ficising is hown to make fine when this is excellent variety only in San Jonquin to county the variety known as *Green Hungarian* in [1 is very much needed in the Liesling vines El Dorado county. The wine made there y yards of Napa and Sonoma to impart it a

eral rules of climate and the adaptations of from it shows its noble origin, but also that it is not in its true home

TRAMINER .- This variety is also a poble sonoma valley. Not much is therefore known about it. An inferior grape, similar in color but with longer bunches, is some-times confounded with the *Traminer* in Napa county. Probably the *Traminer* should be limited to the known Riesling districts.

KLEVNER.--This belongs to the Pinot fsmily and will be treated under that head. KLEINBERGER, ELULING, ALDA, WHITE KLEINBERGER, LIMINU, ALMA, WHEN, ELMA,—This variety is the so-called com-mon grape of the Rhine, bearing well and making an agreable, light white wine. Ita quality is sufficiently high to permit its uae in vineyards where the *Rissing* is cultivat-ed, contributing to the blend its own ex-cellencies. I cannot find this grape with extent of sourcest in the Sources wellow in certainty except in the Sonoma valley in small lots. It is the history of this variety that it improves by being moved to a warmer climate. It enters into the composition of French champagne in some degree. Probably this grape ought to be cultivated more in the Sonoma and Napa white wine vineyards. Mr. Dresel, of S noma, has a small block of this vine. Th This is the true Burger of the Rhine, though I do not use this name here because we might confound it with another variety known erroneously by that name.

BLAUE ELDA, OR ELULING. - This is sim-ply a dark-skinned variety of the Kleinberg-er, or While Elbling of the Rhine. Rhenish authorities say it is superior in quality to its fairer sister. It makes a very good white wine in Los Angeles county, proving thereby that the authorities are correct in saying that it may be moved to warmer climates without danger. It should be blended with some nobler grape. I believe Blended with some nobler grape. I believe that in Los Angeles county in places, where the Zinfandel does not show good color, the latter should be made into white wine and blended with the Blaue Elbling and possibly also with the Blaue Elbling and possibly also with the Blauer (so-called), these varieties being sufficiently planted here already. there already.

CHASSELAS .- Under this name are classed a number of varieties, but for wine making only one is prominent, viz: the Chasselas Dore, otherwise known as Chasselas Fon-tainbleau or Guledel. This is the true Golden Chasselas; the latter name has been accidentally misapplied in Napa county. In France and on the Rhine, the Chasselas ia I the second of the finite, be transmission in not highly esteemed as a wine grape, on account particularly of its low degree of sugar. It is generally used in France aa a table grape; in the south of France sometimes for wine, but as such is not highly esteemed. In this State, even in Sonoma and Napa counties, this grape demonstrates the marked difference of our climate, when compared with that of the home of the Rhenish vines. Here it obtains sufficient sugar to make a goodbodied wine, which is highly csteemed by many. I will state it, as a rule that I think will be followed in future, that in propor-tion as we find the *Chasselas* succeeding in naking good where in any given spot, we shall find the *Riesling* falling behind the standard excellence of the Rhine. The north slopes should be preferred for the Riesling and the south slopes for the Chas-selas, or the Riesling may go with advantage to the bottom land and the Chasselas to the hill side.

GOLDEN CHASSELAS (so-called). - This variety, well known in Napa county, is, with-out doubt, accidentally misnamed. It is so well known, however, that it will be with difficulty changed to another name. What its true name is I do not know. Mr. Morel thinks it is the French Roussanne, but I am inclined to believe that it is one of the many Rhenish varietica, which are little known, and which might easily have been sent here mixed with Chasselas, or accidentally mis-labeled. It is a very vigorous and fertile vine, best known in the vicinity of St. Helena, and would, no doubt, bear planting in places where even more generous wines are produced. It makes good white wine, but not of very high promisa unless blended

MOSELLE RIESLING .- I have found this

characteristic acids and aroms to blends of the Johannisberg and Franken. It is, I be-lieve, a better bearer than the last two named. When distilled in Stockton with White Prolific it assists in making fine the brandy. On the Rhine it is called also the Klein-Rauschling. It should not be neglected.

OTHER GERMAN VABLETIES.

MALVASIER .- Known also here as Black Malvasia, Malvoisie, etc. This is no true Malvoisie, but came to this country under the name of the Malvoisie Noir de Berlin. This I am told in Santa Clars county. It is This I am fold in Santa Carse county. It is probably a German grape of the *Trollinger* family, of which our BLACE HAMBURG is a representative.

Both these varieties are properly only suit-able for the table. The dry red wine of the Malvasier is disliked by the dealers; some claim to make excellent port wine with it, but the standard of taste for port has not been high, and it has only been compared with Mission port. I believe it may be ser-viceable for port wine, but will need other and fiuer varieties to improve it by blending.

different from the French Frontignan Muscat Blanc. It is useful in very small proportions in blending with slmost neutral white wines to give a slight aroma. The Schramsberg leading wine is a light Burger slightly flavored with Muscateller.

OTHER WHITE WINE VARIETIES.

Only the Rhenish whits wine varieties are well represented and studied in this State. The noblest Freuch and Spanish are scarcely known, which is to be regretted, as we are thereby prevented at present from reproducing the Sauterne and Sherry types. The Burgu ndy types of white wine ar are The Burgundy types of white wine are represented only experimentally. We have, however, in considerable quantities the fol-lowing varieties of considerable interest, and already distributed in several parts of the State.

BURDER.-This variety, now so well known, is evidently misnamed. How such accidents of nomenclature could happen might easily be explained to any one who ever attempted to introduce and propagate foreign varieties of vines; the acci-dent is apt to happen in the vineyard in Europe, where the cuttings were made, through the mistake of some workmen; it is apt to happen through similar mistakes in nurseries here; and we even find that we in hurseness here, and werywhere of carelessly adopting the names which European workmen erroneously give to varieties which they find growing here and which they think they recognize. Many of our they think they recognize. Many of our most important stocks of vines are now passing in this State under names which have been given to them by French or German workmen after they have been grown here for years. For instance, Mr. Chas, Lefranc will tell you that he had great trouble with his importations made about twenty-five years ago, the time in transport being long and labels often being rotted off before their arrival. Thus he had cultivated the Grenache for a long time without knowing its name, when accidentally he fell upon a workman from the south of France, who recognized it. Such recogni-tions are, however, generally to be distrusted. I have found by experience that very few French or German workmen have even a faint idea of the great number of varieties of vines that are known outside the variences of vines that are known outside the districts they used to work in, and very of-ten they imagine that they are acquainted with all important ones; so they will generally attempt to identify in every variety that they find here some one variety that they knew in their native homes. It is very difficult now to trace back the origin of our well known varieties, and many of many of our weit known varietes, and acome of them are nearly hopelessly lost to history, ss, for instance, the Bluck Prince or Rose of Peru, the Feher Zagos, White Nice, Emperor, Petit Pinot or Crubb's Black Nice, Emperor, Pett Proto of Critor's black Burgundy, West's White Prolific, and more especially our popular Zinfandel. Those who imported vines hetween the years 1850 and 1860, exchanged with each other without preserving records of origin; aud near-ly all the public spirited men who promoted who promoted this great work are now dead, without leaving records of their own importations. The proof collections of collections of the second state of the s

The importance using an success in Edward to attain all the maturity rope, while traveling as the Commissioner possible. At least it will be useful, i shall for California. We cannot tell now from confidently predict, for such purpose, if his published entalogue which varieties he blended with true sherry varieties from imported hinself from the European col- Spain. tions and which he had gathered from other importers in this State. During his life he distributed hundreds of varieties throughout the State, the greater number o which are now lost to name and inextricably mixed up in old vineyards. It is welknown that several parties have commenced to form new and authentic collections by direct importations, which will be the the means of assisting in future in unravelling many present mysterics. It is possible however, that in some cases we may for ever remain in the dark. We have no doubt propagated, in some instances, vines taken from collections in Europe that are almost as little known there as here, rare curiosi ties of viticulture, which we have utilized this, I believe, is the truth about our Zin-fandel and Emperor, which I have found, so

funder and Emperor, which i have found, so far, impossible to trace hack. These remarks, suggested by the Burger so-called by us, are properly placed here, because this variety is destined to play an important role in our industry.

The Burger of the Rhine, as explained before, is, no doubt, the Kleinberger or White Elbling, and far different from our grape of that name. Our Burger, I have no doubt, however, came from the Rhine; yet I have not classed it among the Rhenish varieties, because it does not helong to them. The climate of the Rhine is quite unsuited to bring this vine into proper ma unsuited to bring this vine into proper ma-turity, except, perhaps in most favorable situations and years. Its home is in a warmer climate. In the Ampelographie warmer climate. In the Ampelographie Rhenane, among the varieties cultivated on the Rhine, is described the Grand Tokayer, which also is called there the Thalberger and Pulscheer. The history of this variety is that it came from Hungary and that it even is used in the Grand Tokay vineyards, together with the Furmint. This state ment, however, is doubtful. It was intro duced on the Rhine as a curiosity, on ac count of its extreme fertility, but the Ger mans were soon forbidden by their government to propagate it, for fear the quality of German wine would be injured by its introduction. On the Rhiue, as in this State, it was a tempting variety to plant. on account of its great fertility, but there, as even here, in some situations, it would not sufficiently mature its fruit, the climate being unfavorable. From the description of this variety, I inferred at once that our Burger was the Putscher, which appears to be the proper name of the Grand Tokayer. The picture of this variety, however, dif

fers from our Burger, both in shape of bunch and leaf. While in this confusion, Mr. Groezinger, of Yountville, imported the Putscheer from the Rhine. He suc ceeded in fruiting about ten vines, among which all but two were identical with our which all but two were identical with our Burger, and two were identical with the il-lustrated plate in the Ampelographic Rhe name. Now, we are left to think severa things; either that our Burger is the Puts cheer and that the artist made an error in his illustration, or that what is known as Putscheer really comprises two varieties of similar characteristics; but the evid-nee points certainly to Hungary as the nativ home of our Burger. Such an opinion ac cords with its character here, for here we find it ripening its fruit to perfection only in most favored situatious. I believe that it is destined, together with

small proportions of more aromatic vari-eties, to make the white wines of California as celebrated as the light table wines of the Rhine. With this variety as a base for blending, an agreable, wholesome, light white wine can be made in all viticultural sections of the State, where it can be well ripened.

In the northern bay counties it should always be confined to the warmest expos-ures and should never be planted ou rich, moist bottom lands. In Santa Cruz county and in similar places, where the proximit to the sea tends to reduce the saccharine of grapes, the Burger may be unsuccessful ex cept in the most favored spots, ou rocky or gravelly soil.

In Fresno county and along the hot foot-

ant importation during his studies in Eu- fruit is allowed to attain all the maturity

In Southern California, Los Angeles, San Diego, etc., it promises to form the basis of light white wines. This I state while knowing that it has apparently failed in Ana-heim for two years, the leaves dropping aud exposing the fruit during the hot spells. I say apparently, because I do not believe that this accident is to be a permanent one at least 1 believe that it is a question of soil rather than climate in Los Angeles county

The hot spells of Napa county are cer-tainly more severe than those of Southern California. I will venture to say that the trouble at Anaheim with this grape was due to a sandy soil, not retaining moisture durto be saidly summer, and that the Burger will succeed, like the Zinfandet, if not suffered to over-bear, on soils or sub-soils where there

is a sufficiency of clay and red oxide of iron. The wine from the Burger is generally called neutral, and is valued by the merchants to blend with heavy or aromatic wines. It will, no doubt, play an important part hereafter in blending with heavy red wines, to reduce the strength and to add life to their dull characters.

I shall hereafter call attention to two imortant characteristics that we must seek for the bulk of our wine grapes, viz: wholesomeness and transportability. The latter characteristic every wine-maker knows means also easy fermentation.

The must of the Burger ferments easily and the wine keeps well. Hence it will be used to some extent in many vineyards where fermentation is difficult, even in combina-tion with black as well as with white grapes. The Burger and the Mataro are to prove the chief safety valves of fermentation in California and the hoops of our wine trade. Let it be understood generally that a pourly fermented wine is unwholesome; that win of difficult fermentation cannot be safely handled nor consumed when young; that wines easily fermented and good keepers are the known wholesome wines; that a great wine trade can only be built upon a reputation for wholesomeness and small risks to the merchant, and the public will understand why I have encouraged the planting of varieties known to produce sanitary rather than fancy wines. The so-called noble varieties in some cases are not easy to ferment, and do not produce wholesome wine; but their true office should be to be blended in ferminitation with more useful plain varieties, to add character aud beauty to the vintage. In the vat the Mataro and the Burger will correct the defects of fer In the vat the Mataro and mentation of many other varieties, will renand der unwholesome musts wholesome, save the merchant from bandling rebellious uew wines

For making fine brandy I believe the Burger is also destined to play another important role. In many respects it resembles the Folle Blanche, which is the leading grape of the Cognac country. I believe that they are of one family. If I had a vineyard such as some of those in the bot-tom lands of St. Helena, where ten to twenty tons of grapes to the acre is not an uncommon yield, and where the quality of the wine is often very poor, I should plant The wine is often very poor, I should plant Burger, Folle Blancke and Colondar-pro-ducing thereby a very large crop of very light, greenish white wine, which I would carefully distill, fully believing that the brandy I should make could only be sur-passed in quality by the same method in some other similar place, where perhaps there may be more celeoreous make a fine remuwe are ever to make a fine reproduction of the highest type of Cognac as was exhibited at our last State Viticultural Convention, the type of which is known as *Grand fine Champagne*, we must certainly do it after the manner I have in-Whatever of delicacy there is in diented. Naglee brandy is, no doubt, due to the the rankness of the vegetation of the maker' vines, the lightness of his wines and their comparative immaturity, together with a cer ain small proportion of quality in the grape themselves. On the same land the Burger Folle Blanche and Colombar would have made Naglee brandy, I firmly believe, im-

Let some one in Napa couuty try this ex-periment next year. Mr. Crabb is the man to do it; take some valley *Burgers* from the bottom land, with sixteen per cent su-gar; send for some Folle Blanche from Alameds or Santa Clara county, with instructions to pick at not exceeding twenty pe cent sugar; send also for some Colomb cent augar; send also for source 'Cotombar o twenty to twenty-four per cent sugar; fer-ment, without pressing the skiu too much, and distil immediately after formentation at low temperature; and then let the public note the result from year to year as the brandy improves—being careful to keep it is mercore generation of more than any in proper cooperage of not more than one hundred and fifty gallons in size and changiug cooperage every two years for new wood. See what can be done this year by distillate from such light Burger, Colon bar (white green Riesling) and Folle Blanche wines, as can be found, to experiment with.

COLOMBAR .- This variety came under its true name to Mr. Pellier, of Santa Clara county, from the Charente district in France. It is one of the celebrated Cognac varieties, cultivated with the Folle Blanche and St. Pierre in all the finest Cognac growths. Mr. Lefranc has it under the name of Sauvignon Vert, and for some time it was supposed to be the Sauvignon of the high-classed Sauterne vineyards. of the high-classed Sauterne vineyards. This latter supposition has been proved a mistake, both by comparing the vine with the true Sauvignon recently imported in experimental lots, and by the study of the wine. Mr. Lefrance's white wine owes its Sauterne character, no doubt, to the mix-ture of the Colombor with other variaties, not yet clearly known to the public. not improbable that in some part near Bor-deaux, the Colombar may be known as the deaux, the Colombar may be Sauvignon Vert; the Charente, or Cognac country and the Sauternes are not far apart. Some authorities put the Colombar synonym of the Se ynonym of the Semillon of Sauterne; but omparisons made recently disprove this.

Comparisons hade recently displaye and. The Colombar is, however, a known fine variety for white wine, both in France and in this State. At St. Helena it acquired accidentally the name of White Green Riesling: then it took on the name Sauvig from Mr. Lefranc's collection. I have little doubt in saying now that I believe it should only be called the Colombar. We need the Sauterne varieties, and should not confound their names.

The Colombar has much similarity with West's White Prolific, and I believe, from all I know of the vine, that it will make a fine blend for *Burger* in the interior and southern, as well as in the northern counties; a blend that may be improved into a light fine Sauterne type, by grafting in as rapidly as possible a certain percentagesay, about one-fourth of the true Saurignon of the Sauterne country. To obtain a finer reproduction of the Sauterne type, we must wait until we have stocks of Semillon, Sauvignon and Muscudelle de Bordels, (Raisinotte, Cadillac, etc., synonyms). The Colombar, as has been said before,

should accompany the selections for brandy vineyards, where it is desired to produce the Cognac type.

This vine is a fair bearer-sufficiently fer-

tile with short pruning. FOLE BLANCHE.--We are iudebted to Mr. Pellier's collection also for the celebrated Folle Blanche, of the Charente, which near Cognac is the dominant variety. The vine bears abundantly, with close-set bunches of white, or greeuish-yellow (when ripe), grapes. Near Cognac it is distilled, begrapes. Near cogine it is distinct, be-cause its wine there is so light in alcohol (generally six to seven per cent) that it will not keep over the season. In the low-er Charente and in the Gironde, near Bordeaux, it ripens better and makes a very liked by German importers. This wine often passes in our market as a cheap San-terne; probably it has been blended with a wholesome white wine, very much quantity of real Sauterne. The qualsmall ity of the grape for wine appears to im-prove as it goes south, and for brandy as it goes north; which, together with other facts, has made me announce this rule, that to make the finest brandies we must distill the lightest white wine from a certain type of grapes, and that a certain degree of immaturity will result in better brandy.

As a wine grape, however, I believe the Folle Blanche is important to us. Unfortu-nately we have not seen many samples fer-mented separately in this State. When

within the year. It has fermenting quali-ties similar to the Burger, and for that reason will be valuable to us. Probably there is no other white wine in France that can be handled with so low a degree of alcohol as the wine of this grape. In Bordenux, it is used in preparing what are known as "cargo clarets," which, in fact, comprise the bulk of the Bordeaux wines exported to this country, and which are labeled to suit after they are put on our market. The object of these preparations is to utilize heavy Spanish clarets and those of the Mediterranean coast, made from the Maturo (principally), Grenache and Carignan also the dark coloring wines of Cahors, etc. made principally from the Malbeck (giving the so-called Bordeaux flavor, and the cheap white wines from the Folle Blanche These white wines inpart to the other heavy red wines that quality which causes them to be called clarets, and improves them for table use. The leve that the F of le Blanche can be made to play the same role in this State-where similar combinations will be much needed; but probably the grape must not be permitted to pass certain degree of maturity-possibly 18 to 20 per cent of sugar. This is a matter for experiment. Our interior clarets, I believe, will yet be made by fermenting togethe with the Mataro, Carignan and Grenuche a certain portion of highly coloring grapes, such as Lenoir, Bouschet-Alicante, Petil Bouschet, etc., and the Folle Blanche or ger, or with both the last two named. If the result is lacking in characteristic fla-vors and bouquets, the merchants will blend it with certain proportions of old, high-grade wines of true Médoc vines, such as Cabernel-Suuvignon, Malbeck, etc., or, if Burgundy types are wanted, with rich old wines from the *Pinots, Meunier* or *Trousseau*. These latter high-classed blend-ing wines will probably come from the coast counties or above a certain altitude in the Sierras.

If the experiment of using the Folle Blanche as a wine grape should fail any-where, it may be relied on for distillation. Hence I have endorsed its wide-spread propgaution, together with the Burger and Col-

WEST'S WHITE PROLIFIC .- This grape came originally to this State, many years ago, in a collection from Hovey's of Boston to the nursery of Mr. George West of Stock-ton. There were two vines in the lot, and for years they attracted attention on account of their great vigor and constant fertility. For these reasons, Mr. George West propa gated a considerable lot of this variety, and made up the fruit into wine for distillation, together with Rieslings and sometimes Mis-sions. The quality of his brandy began to attract attention, and finally the improvement was traced to this grape, which was then named West's White Prolific, to avoid known. Brandy of 1881 from this grape has this year been sold in San Francisco, and has elicited much admiration, heing in type and much finer than any Cognac other known product of its age, and much finer than any of Mr. West's older distilla-tions from mixed grapes. This result, to-gether with its marked resemblance with the Colomher, though more fertile, causes me to helieve that it helongs to the Cognac group by some relationship. Wine made group by some relationship. Wine made from this grape has remarkable keeping qualities. I found it impossible to spoil it during the last year, though testing a demijohn, two-thirds empty, during six months in many ways-by the side of the kitchen stove, in a sunny window, etc. Whether this quality comes of the soil of Mr. West's vineyard, or is a constant property of the grape, remains to be proved. The wine has grape, remains to be proved. peculiar flavor, but very agreeable. West's it attains a high degree of alcohol. If fermented from grapes less mature, probably the brandy would be still further hol. improved.

West's White Prolific is therefore to be elassed with our groups of varieties for Cognac types of brandy. I believe also that in the Fresno country and along the Sierra foot-hills it may be naed when fully ripened with Burger for a type of so-called

very young it appears to have an objection able rawness of flavor; but this passes off divergence it has fermenting out while its true name is we do not know. What its use will be is also obscure. The wine from the old vines of the Bugby vincyard near Folsom becomes very light as the vines grow older, and last year it was scarcely merchantable except for distillation. A sample that I kept in a half-filled bottle in my office wa scept in a half-filed bottle in my office was examined a few days ago, after a year's ex-posite, and was found to be perfectly sound, though very light in alcohol, and greenish in acid. Mr. Haraszthy believes that this wine has value for blending purposes. In Napa county I have seen a wine from it do rather inferior seen a wine from to rather interior quality. In the Eisen vineysrd near Fresno it produces abundantly, and its wine a sample of which is now four years old, has taken on a marked so-called sherry character. This sample is certainly worthy of study, and other experiments will be made. I should not, however, risk planting this grape for sherry purposes except where there is intense summer heat and a general disposition of other varieties towards a high saccharine percentage. It would no doubt produce a good brandy, but not so surely s the varieties I have named for such pur-

ZINFANDEL .--- This should be classed as a white wine grape of importance, but I re-serve notice of it for its place under red wine grapes. MISSION.—The Mission variety, so named

after the Spanish Missions, where it was found, is probably a seedling propagated by the Franciscan fathers. There is no variety of Spain that is known to resemble it. Governor Downey had no authority whatever for saying that the Franciscans imported it from Spain as one of the finest portect it for sparse solution in the sheety varieties of sherry grapes. The sherry grapes are well known and in no respect resemble the Mission. But if the Mission is to have any role in future in our viti-culture, it will certainly be only as a hlend for sherries of an inferior type, or as a ta-ble fruit. It will no doubt he used for some time for sweet red or port types, but must gradually be abandoned even for that as finer and more sanitary products are made from other varieties. When our Los An-geles friends have practiced awhile with Mutaro and Troussea as a base with Carignan and Grenache blends for ports, they will find their wines will give them less trouble in transportation, will have fine character, and will be so wholesome, that, like the old fashioned Englishmen, our American lovers of sweetish wines or ports will drink their bottle without ruining their digestion. I have, therefore classed the Mission as a white wine variety As a dry red wine grape, it is a nuisance As a brandy grape, it is a hindrance to our progress; because one has only to try Mission hrandy a few times to be satisfied that whiskey is the hetter drink. The same property—whatever it may be—that makes Mission wine so "heady," appears to go over in distillation and impart the same trouble to the distillate. I have never used Mission brandy without suffering afterwards from a dull headache with almost a suicidal I have never had such a result iendency. after using brandies from our other grapes -even the pomace brandy of Napa is not so objectionable. Probably if the Mis-sion grape were picked before complete matuthe brandy might he free from its most iy, objectionable teatures. I say these things as forcibly as I can, because I realize that any unwholesome product of vificulture will scriously retard our progress in our contest in the whicky and heer markets. Those who have Mission vines should use them as stocks to graft better varieties upon as soon as experience tells them what selections to make. In Los Angeles county, they need not fear to use Mataro, Carignan, Grenache and Trousseau and two years by grafting will determine other varieties. VERDELHO,—This is pur excellence the fincst of the Madeira varieties. It also

enters into the Sherries of Spsin and the finest liquenr wines. It is found in this State in very small lots; therefore, it is not much known. However, its history is a sufficient guaranty for its use here, where we lean towards the Sherry, Madeira and liqueur types in many places. It does not appear to be a very abundant hearer, but $\begin{array}{c} \hline \label{eq:constraints} \\ \hline \end{tabular} \\ \hline \end{tabula$

In Fresno, if it does not sunburn, age. age. In Fremo, if it does not suburn, it will hasten progress towards dewinkble types; so, also, in Loe Angeles connty, and other similar districts. I believe its value should be tested also in Naps and Sonoma. A small percentage of noble grapes will work wonderful results in our vine-yards; wilness the effect of a small doee of Reisling in tanks of Burger, White Malvasia White Zinfandel, etc.; or the effect of a little Chauche Noir, or Trousseau on a bottom land Zinfandel.

FRONTIONAN .--- Of all the varieties with Muscat flavor, the Frontignan is by far the finest for wine making. It is called Muscat Blanc (White Muscat) in France, but to avoid confounding it with other very differ-ent grapes, let us keep the name Frontignan, the name of the place where it made its greatest reputation before the phylloxers de astated that region. Where this variety will succeed best, I cannot tell. It doe very well in Stockton, and I feel safe ir predicting success with it in the climate of Southern California. In Freeno I do not know whether it will stand the intense summer heats. In Stockton there can be produced from it a most superior liqueur, or sweet wine, with delicate Muscat flavor, which surpasses, I believe, the famous Frontignan wine itself. If enough w re made to warrant some merchant making an effort to bring it before the public in England, and in Russia. I believe that it would add lasting credit to our industry.

It may he used in very small proportions to flavor otherwise characterless white wines. I have known very important improvements in otherwise provements in otherwise very ordinary brandy being made by mixing its wine with the other before distilling. This proves nothing new, for at one time Frontignar brandy was so famons that chemists even sold extracts to imitate it. Frontignan wine became too valuable to distill. An excellent wine is sometimes made in

the south of France by blending Mataro (fermented when over ripe) with the Frontignan. This wine is said to resemble the wine of Constance. This could be done whenever the Mataro could be ripened sufficiently

SEMILLON - This santerne variety. cently imported by Mr. J. H. Drummond, the Natoma company and myself, has already proved its value at Mr. Drummond's through grafting. This, however, as well as the other sauterne varieties, viz: Sauvig-non and Muscadelle de Bordelais, can only be had now by direct importations from France, the vines in this State being insufficient yet to supply the wants of those who have them. Santa Clara, Alameda, Contra osta, San Joaquin, Solano, Los Angeles San Diego and other similar regions should get ready to propagate these vines, if they desire high quality souternes. Napa and Souoma may also be benefited by them. SHERRY VARIETIES.—The important true

sherry varieties of Spain-such as the Lis-tan, or Palomino Blanco, etc.-are practiand, or Falomino Banco, etc.—are plact-cally unknown to ns, although during the last year some stocks have heen imported for trial. This and the Sauterne groups have been strangely neglected. Our best success may be in those types.

BUBGUNDY AND CHAMPAGNE VARIETIES.-Of the varieties which produce the noble white wines of the Burgundy and Champagne districts of France, we have very few propagated in California. The true Bur-Pinot, of which there are several varieties, is so light a bearer that it has variety. Mr. Benson, of Napa county, has the *Plant vert doree* and the *Valranne* of the Champagne country in sufficient numbers to commence testing its wine. A sample I have tasted was excellent. The white and gray Pinot, which make the famous Chablis wine, are not practically known to ns, although we have scattering lots of Kleiner (Gray Pinot) and White Pinot, and I believe that a Melon Blane in Santa Clara connty, which Mr. Crabb is now using in grafting old vines, is a true Burgundy vine. I am going to test the Chaintre system of pruning on these shy bearing vines, and perhaps I may succeed in getting a profitable crop. The Pinot ripens too early for the hot valleys.

CHAUCHE GRIS .--- This variety came first

ported from the Charente hy Mr. P. Pellier, and I have little doubt that they were both propagated from his collection through the San Jose nurseries. In St. Helena we find Subject to the second the same variety and that there never was any anthority for the name known in St. Helena, There was a *Black d' Ischia* in Colonel Harszthy's collection, which re-sembles the *Chauche Noir*—hence some one has named the *Chauche Gris* the *Groy d' Ischia* by reason of the resemblance. This has named the *chalene* or state. This Ischia by reason of the resemblance. This Chauche is the gray variety of the Pinot de Poitou-known as Bluck Pinot in many Chauche is the gray variety of int in many Poilou-known as Bluck Pinot in many parts. It is not a Burgundy vine-but from the west of France. With long comes from the west of France. With long pruning, in good moist, deep soil, it yields abandantly. The wine is of fair quality, but varies with the soil apparently; where it may make a fine wine, if any where, we do not yet well know. It will probably succeed in many places too warm for the *Riesling*. It will furnish a good stock to graft on for those who may get tired of cultivating it. I use the word "fine" with discretion: few varieties will make fine wine, though many may make good, or fair quality.

RED WINE VARIETIES

MISCELLANEOUS UNCLASSIFIED GRAPES.

ZINFANDEL.—The origin of this popular variety is veiled in mystery. It is quite certain that its propagation was a favorite hobby of Colonel Agoston Haraszthy and his son Arpad Haraszthy, who in unstinted terms urged vine-growers to adopt it as a claret grape: but it is equally certain that it was in this State long before Colonel Haraszthy visited Europe as a State Viti-cultural Commissioner. I am strongly inclined to believe that there has been a mistake in naming it. Certainly it does not appear to belong to the varieties of Sylvanor Zinfandels, described by Count rt. I have seen four samples of old Odart. Zinfandel wine in this State which had such a remarkable resemblance to high classed Medoc (Bordenux) wines that for all prac-tical purposes I shall continue to recom-mend it for blends of Bordeaux claret types, although I think that judicions blends with Burgundy varieties can also be made. The four instances of true Medoc types from the Zinfandel were, viz: samles of wine two to fonr years old from the vineyards of J. H. Drummond, Glen Ellen, Sonoma Co., and of the Natoma Vineyara Company, Folsom, Sacramento Co.; also from the wineries of Mess. Andurane & Co., Napa, and Messrs. Brun & Chaix, Oak-ville, Napa Co. Where the grapes in the two latter cases grew I do not know. In three of these instances I believe there was three of these instances I believe there was no doubt as to the absolute purity of this wine-being from Zinfandel grapes only. In these instances I recognize the finest wines of Bordeans type that I have ever seen in the State. In each case the pecul-iar Medoc flavors and houquet were produced by age and were not detected in the new wines. I am therefore convinced that new whiles. I am therefore convinced that in districts where the claret types are possi-ble and where the soil is proper, the Zin-fandel is destined to assist us in rivaling the most popular of the French wines of exportation.

The Zinfandel apparently succeeds everywhere that the grape grows in this State; but in the wine cellar it records many dismal failures. My present impression is that whenever its must marka less than eleven whenever its must mats a reas that the en-or more than 12½ per event of alcohol for the wine, its product will be inferior and loae its Medoc character. In certain coun-ties, such as Napa and Sonoma, it must have warm exposures, in others, such as Santa Cruz, I believe it will fail to properly mature; in others, such as Fresno and the foot hills of the Sierras, it ripens too fest and loses its character. In sandy and clay gravelly soils, where the proportion of s small, its wine is thin, lacking in color and greenish acid

soils where there is a firm foundation In of clay it gives good color, and when each soils are well provided with red oxide of iron, and are well drained hill sides, it yields finesse, Bordeaux flavor and bouquet, is an abundance of clay, the well provided with red oxide of are well drained hill sides, it Where there is an abundance of clay, the wine is not afflicted by free acid, but is

think, as a white wine grape. Its must, when not fermented on the skins, produces wine delicate in flavor and sub-acid, in those places where the crop is large and the sac charine in high degree. In the sandy gran-ite alluvial soil of Los Angeles county it should be made into white wine, unless ex-periment by fermenting it with the Mataro, or some similar variety, should prove a great improvement. In San Diego county we have found it succeeding well in the Cajon Valley, in red loam overlying a elay subsoil. Across the ridge on similar loam, without elay, it fails to give color. In Freshe county and the Sierra foot-hills it is either a port or a white wine grape.

Judging from its acid and other general characteristics, I believe that it will pro-dnee fine brandy, where it does not overripen

There will be many who will insist on keeping Zinfandel unblended. Certainly where a perfect degree of maturity, neither under nor over ripe, can be obtained, to-gether with good color, the Zinfandel promises well without the aid of any other variety. But I firmly believe that our markets will But 1 nrmit believe that our markets will be better pleased with more solid and ex-pressive wines. The Zinfandel and Mataro. each good bearers, will, I believe, become the favorite basis of our red wine vineyards, to be directed in expression towards favorite types by judicions blends with fine Bur-gundy or Bordeaux varieties. These blends, if perfected by being racked together as soon as each has fimshed the first violent fermentation, will be, I think, the foun tion of our trade in dry red wines. The Mataro and Zinfandel, in many eases, may be fermented together with great advantage-the Mataro correcting any excess of ripeness of the Zinfandel.

The Zinfandel should not be long pruned; long wood results in light color and irregumaturity with this grape. Possibly this rule might be changed if the Chaintre sys-tem of pruning be followed. I believe it is worth while to experiment in doing so.

" MATARO. Although this is not as exten-sively cultivated now as other varieties for red wine, yet its present popularity demands for it a place next to the Zinfandel; indeed, I believe that for the future it will have a wider range of usefulness. It comes to us from two parts of France, under different names. Along the Mediterranean const of France it is called generally Mouredre, although it is sometimes dubbed Etranglealthough it is sometimes during Longie chim (dog strangler), probably on account of the roughness of the win- when young. Along the Spanish coast it is known as Mudare, Beni-Curlo, ict. In the Charcute, north of Bordeaux, it is called Balzac. We for in or Doried here under Doried. We find it imported here under both the names, Maturo and Batsue. It has been, without reason called the Upright Barquardy at St. Helena, and Miller's Eurgandy in Santa Clara: the former is an invention, the latter a misappropriation of name.

All the great French authorities agree in All the great region authorities again a placing the Malaro as the finest rid wine grape of the southern regions, and many, Count Odart included, have counseled its use, even in the Bordeaux districts. By reason of its peculiar adaptability, it can be cultivated much further north than its common southern associates, the *Grenache* and *Carignan*. It ripens generally a little later than Zinfandel, and its must should promise an alcoholie strength of twelve per cent before the grapes are picked; when picked at a less degree of maturity, it fails in color.

at a less degree of maturity, it taus in core. The apparent defect of this grape is the roughness of the new wine; but this is the defect of most noble varieties. Like the *Cubernet-Sacriquan* of Bordeaux, it requires age to develop its quality. It should be romembered here that wine which is agree-able when new, seldom, if e.r., improver with age; hence such goods go to early muchts; multipace likehold corefully with wings markets, unless blended carefully with wines that are durable. The *carigaau* has been generally preferred at St. Helena to the generatly preferred at z_{n} in the source of M data, hecause its young wine is more agreeable to the palate. I have recently, at Captain Nichaum's, seen the one year old Carignan deteriorating and becoming acid, while the Mataro was improving rap-idly. I believe that the durable merit of idly. the wine of Mr. Scheffler, known as Carig-

na was the of Mi. Berlemin, known as to of nan was due to the Mataro contained in it. In testing red wine samples at St. Hel-en a two years ago, the St. Helena Club gave the preference to a blend of Mataro and Zinfandel.

The chief merits of Matoro are, viz: The

the fruit contains an abundance of tannin; the wine is wholesome, easily fermented and contributes its fermenting and keeping and contributes its termiciting and keeping qualities to others with which it is com-bined. A mixture of *Medero* in the fer-menting var with varieties that ferment with difficulty is often a sovereign remedy in the south of France, Whenever it is well satisfied in soil, exposure and elimate, it gives an intensely colored wine. It dominates in the vineyards from which the Roussillon wines of commerce come. When excessively ripe, it combines well in port wines, and if left to become over-ripe on the vine and partially desicented after picking, it has been combined with the Muscat of Frontignan, to make a superior liqueur wine—said to resemble the wine of Con-

Dr. Jules Guyot, the most celebrated of rench viticultural writers, says of this rape: "But, of all its advantages, that which should cause it to be carefully preserved in Var, in Provence, and in all those regions of the Mediterranean coast of France, where it is cultivated, is thisthe wines produced by it are unaffected by discase, firm, agreeable and salutary to a higher degree than the wines of any other varieties of those districts."

Mr. Pellicot, a later authority, and one nost competent, says: "I believe we should we should add to the judgement of Dr. Guyot that no other wine of our country (the wine of our country (the south of France), stands transportation by land and by sea, and equatorial heat better than that of the Mataro. The tan-nin, with which it is well provided, gives "it, in a high degree, preservative qualiities; but it is at the same time the cause of the bitterness which is noticeable in the new wine."

I believe thee are few red wine vinevards in California, whether for dry or sweet wine, wherein he introduction of a pro-portion of *Mataro*, varying from ten to sevnty-five per cent, will not be a positive ain. The Mataro, however, should not zain. be planted on shallow, poor or dry soils; it flourishes best where three is a sufficiency of humus, or leaf mold, and where the sub-soil permits the easy descent of its roots. It should not be placed in those vineyards where the Ziafundel and Burger do not ripen well. It yields well, when properly placed, with short pruning.

one place where this none appears. I have not yet found it speiled "Charbonneau," as is sometimes done here. This varie ty comes from the Jura, together with the *Transson* and *Ponlsart*. The Jura his somheast of the Its names are so numerous and so obscurely given, that this fact alone, together with the history writt n concerning it, indicates that it is not the most esteemed variety of that is not in the stating name is Corbeau; that country. Its leading name is Corbeau; it was imported by Mr. Drummond, under another synonym—the Plant de Montwe-lian. It is undoubtedly true to name.

The reader should remember that different varieties of vines received local names throughout Europe long before there was iny careful classification of them. onfusion of these names is had enough: what we should avoid here is the misapplication of well known names.

The Charbono in Santa Clara county yields abundantly, and its wine, when unyields abundantly, and its wine, when un-der favorable conditions of culture, has a fine, deep color. It will not, however, ad-vance the cause of viticulture beyond the supply of a cheap markétable product for ordinary use. Ats characteristics are such that if generally covers up the finer quali-ties of better wines. Unlike the Zinfondet, it dominat s its blends, wher as the Zin-fundet' lads itself to fine blends, losing its discritiv. Therefore, I do not think that identity. Therefore, I do not think that the *Charbono* will ever be as popular as *Zinfandel*—its us is being more restricted, excepting that possibly it may succeed when the other may fail. Its color will cause it to be always appreciated for coarse, com-non blends of clarets, and its fertility will ommend it to those who prefer quantity to mality. I believe that it will fourish best on warm, deep soils, and that it will fail on cold, clay aubsoils. I have seen it failing cold, clay aubsoils. I have seen it failing on such cold soils, where the Trous-seau, (hauche Noir and Zinfandel grew well. The vines in this instance, however, are young and not yet fruited. In the low, rich lands near Santa Clara this vine has shown very vigorous vine.

vine hears well and resists early fall rains; a tendency to be greenish and acid in vintage time. I think this was due mainly to forcing too large a crop, to too long pruning, and to staking high, because I have seen the staking high states trying well other samples in similar places giving well matured grapes. In the vicinity of Steven-son Creek, west of Mountain View, in Santa Clara county-especially in the vineyard of John T. Doyle, Esq., it reaches apparently its highest perfection. The Charbono, no doubt, has come to stay, and will be prized for its fertility; the wine, if blended with Muturo, Trousseau and Zinfandel, will be plentiful, and salable as an ordinary claret. lacking finesse, but possessing good, whole some properties. Those who desire to pro only high grade wines should not duce plant this variety. General Naglee has won for this grape

probably its highest praise through his socalled Burgundy brandy, which at the age of ten years develops a faint, delicate around and bouquet. I suspect, however, that this aroma and bouquet are due to the certain percentage of *Trousseaus*, which he has among his *Charbonos*. His young Bur gundy brandy does not show any noticeabl quality other than purity of spirit and free dom from the disagreeable headiness which is common with Mission brandy. Other grapes appear better suited to making fine brandy, with abundant ethers and desirable flavors.

The role of the Charbono is certainly confined to the making of light, cheap table elarcts, in the coast counties particularly.

TROUSSEAU.—This variety came to San Jose together with the Charbono—hoth being imported, I believe, by Mr. Delmas, many years ago. These varieties, together with a number of others, were started out as "Burgundy" stocks, thereby causing the confusion that now prevails. It is proper to say here that the term Burgundy, as applied to wine, is probably now purel conventional, and has lost among our peopl its original meaning. Commercially speak-ing, it is now common to call any dry red ing, it is now common to eat any any red wine having more than twelve per cent of alcohol, and being rich in body and flavor, a Burgundy. In France also the original distinction is hecoming lost to the general consumer, and wines from the Jura, from Beaujolais, are sent out as Burgundies hence we are drifting into calling all th rieties cultivated from Lyons to Dijo Burgundy grapes, including *Charlono*, *Transsenan*, *Poolsart* and *Gamay*, as well as the *Pinols*. These grapes vary so much in quality and general characteristics of production that I doem it nee ssary here to inake these remarks, because many ambi-tions young planters, aiming to reproduce the wines of Chambertin, etc.—true Bur-gmdy, as they have been it in their are being misled by our fals

I have, however, often written to corre a nave, nave, never, other white a language where necessary, and counselled them about com-binations of varieties for Burgundy types, as commercially known. In this sense I have often urged the planting of the Trou seau together with other fine varieties. And in this sense I shall generally use the expression Burgundy type-the true Burgundy being a wine that probably will never be-come well known in California, for reasons

to be given hereafter. The Trousseau, like the Mataro and Zinrule from the the states and the state of th If combined with Crabb's Black Burge dy vorable locations would be a rich Burgundy type, suitable for the English market, espe-eially if some Mataro should be allowed to

enalty if some *Mataro* should be allowed to grow old together with it. The *Tronssean*, like the *Chauche* noir and *bris* and *Riesling*, ripens its wood early and is not affected by early fall frosts even in very exposed places.

The Charbono suffers severely from the early frosts in some low places It bears well with long pruning and is a

French authorities nearly all concur in declaring that the *Trousseau* is identical with the *Bastardo*—one of the two vinea most celebrated in the Douro, Portugal, for making the highest classed port wines. I have imported the true Bastardo with other Douro varieties and shall be able to com-pare its fruit as well as foliage and wood pare its fruit as well as foliage and wood next seeson. Thus far the resemblance is marked in the wood and foliage. More es-pecially have its port wine characteristics heen proved by Mr. George West, of Stock-ton, and Mr. L. J. Rose, of San Gabriel. It is not bub the constant of the detected of the is probably the same as the Bastardo and it is certainly a superior variety for port wine, in such districts as Solano, San Joaquin, the Sierra foothills, Fresno and Southern California. For dry whee it will excel in the bay counties and, if picked at the proper time, in the vicinity of Stockton.

I have personally tested port whe made from this grape as compared with that made from the Mission variety. I found that I could drink half a bottle of the Trousseau with impunity, enjoy it and feel Protossean with impairing, endoy it can be no disagreeable after-consequences, while the same quantity of Mission I should not dare to consume. It is possible that when we make our ports out of Trousseau, with suitable blends—such as the other known human set is a start of the start of the start of the start (dare start). Douro varieties, or with our *Mataro* and *Grenache*, port wine drinking may become popular in the United States

CHAUCHE NOIR .- This is the brother of the Chauche Gris. It is foundquite frequent-ly in the Santa Clara and Santa Cruz vineards, and sometimes seattered among the hauce Gris near St. Helena. Whether it is Chauce Gris near St. Helena. Whether it is the same variety as Schram's Pinok (for-merly called by him Merkau), Mr. Chas. Wheeler's Black Pinot and the Black Chater, Black d'Ischia and Black Riesling of other placers near St. Helena, Lam nuprepared to decide. The wood, Iodiage and general aspect of the Trousseau, Chauche Noir, 'Mauche' Gris and D'Ischia Vare have a strillion resemblance. The (*Unuclea Noir*, "*Unuclea*" (*iris* and *D'Ischia* Noir have a striking resemblance. The *D Ischia* Noir was imported by Colonel Haraszthy, and no doubt propagated in the early St. Helcan plantings; when the *Unuclea tris* appeared from Santa Chara, its resemblance to the *D'Ischia* Noir no doubt was the cause of its acquiring the name ("Gray D'Ischin." So we may be apt to confound the *Unuclea Noir* with the *D'Ischia Noir*. My impression now is that the *Unuclea Soli* is only found in a few senter-invariant Sk. Helcane among the old Chauche Noir is only found in a few seater-ing places at St. Helena among the old vines—such as at Capt. Niebaum's (in the cld vineyard), at Mr. Scheffler's and at Mrs. Weinberger's, No mistake need be nande, however, in properating this vine transformed character Santa Cruz counties, the state Character Santa Cruz counties.

This improperly classed as a *Pinol*, al-though where it grows in France, it is also called *Pinot* de *Paiton*. It bears very little resemblance to the true Burgundy Pinet. It is a light bearer generally, y with proper long pruning, the crop is suffi-ciently satisfactory to the vintner. It is a variety that may well be associated with either the Burgundy or the Bordeaux types, producing, as it does, a wine intermediate in character. It grows in France in the regions north of Bordeaux, and is very hardy. In Santa Cruz county, when well ripen-

ed, it makes excellent wine of fine type. In St. Helena, it may be seen at Mr. Scheffler's, where in combination with the *Meunier*, it was used to make his "Burgundy so much admired two years ago. so much admired two years ago. It will be remember of that it was first given out that the grape which produced that "Bar-gundy" was the *France Pinot* I was shown what was said to be the wine, and declard it to be the *Chandle Noir*. The year Law was the *Chandle Noir*, but since the *L* was change work in which it is the then I was shown another block of vines, the hard shown mouth over the set of the set was due to the *Chauche*, and how much to the *Meunier*; I think, however, that the Meunier contributed in most part the color

and the body. Mr. Morel remarked when showing this wine in Mr. Scheffler's cellar that it did not resemble a true Burgundy, but was a fine reproduction of Ronssillon. Count Odart in his Ampelographie says of the Chauche Nour that its wine, when made under favorable circumstances, recalla to mind the winea of Ronssillon. Mr. Morel and Count

Odart agree in describing the wine, but the former as smolubtedly mistaken in calling the vine a *France Pinet*. The cause of the confusion we in the loss of the true names in a vine ward planted before Mr. Scheffler can indo at posses ion. I have de an d these remarks workly of place hr, because our St. Helema vine growns would like to know how to repro-duce the wine made at Mr. Scheffler and Air. Time may prove that the re was also some Malbeck in that wine; I think so. It is difficult to obtain the excatt truth in such is difficult to obtain the exact truth in such ma ters

MEUNIER .--- I introduce this variety here, because of its connection with the preceding It is very little propagated at present —only a few thousand vines existing in the State Its excellence, however, is a matter of his-tory and is corroborated by the experiment in Mr. Scheffler's vineyard already referred to. It is found in small lots in Santa Clara and Santa Cruz counties. It is called also Miller's Burgandy, but this name has been improperly applied in some places in Santa Clara county to the Mataro. It is a Sunta Gara county to the Midaro. It is a creeping vine—cause running naturally close to the ground. Both sides of the leaves and the cause are whitened with down hence its name Meunicr (Miller); it is cultivated also in the high classed Buris entrusted also in the high classed bar-gundy districts of France with the true *Pinot*—hence its name, *Miller's Burgun-dy*. It hears very much better than the *France Pinot*, but its quality is so good that it was admitted to a place in that noble company. No doubt it destroys somewhat the finesse of the Franc Pinot, but the sacrifice is not considerable. With long pruning properly conducted it will bear very well. It is eminently adapted to the Chaintre system. Let some of our St. Helena planters try it on their sheltered slopes. If by planting new ground, plant 7 by 14 feet; if grafting, graft every other row and as soon as the grafts are one year old, take ont the alternate ungrafted vines and lay the Meunier down in Chaintre style

This variety, like the Burgundy Phots should be well ripened—giving a wine twelve to fourteen per cent strong in alcohol; otherwise they do not show their fine qualities. The Chauche Noir will show qualities. The *chauche Noir* will show quality with eleven per cent in this res-pect being allied to the Bordeaux vines; I am inclined to believe that the *Meunier* will not generally succeed in the Santa Cruz mountains, where the tendency is to light clarets rather than to Burgundies.

There is an apparent inconsisten-cy in this statement, because the *Hemice* is an early variety—earlier than *Chauche Noir*; but nature is inconsistent. Although an early ripener, it does not develop its full quality in a Santa Cruz climate. If it were taken to the San Cruz climate. If it were taken to the San Joaquin Valley it would ripen too fast, and be fit only for sweet wine. A variety to be properly ripened must not be subjected be properly repeate must not be subjected to a climate or situation that causes it to pass its limit of perfection. On warm, rich slopes of Santa Clara, Alameda, Contra Costa, Napa and Sonoma counties, the Meunicr cultivated in Chaintres would succeed admirably.

In carefully constructed and managed cellars its wine would be brought through safely; but in cold, badly regulated cellars, it would be found difficult to clear, its fermentation partaking of the difficulties of the Burgundy wines. For making a choice wine to supply a cool San Francisco mar-ket it would, no doubt, be profitable for experienced wine-makers to handle; but in general there should be plenty of Chauche Trousseau and some Maturo to blend it with. It would impart to them its fine and bouquet, and would be preserved by them by finishing its after fermentation in company. The tanuin of these grapes would precipitate the albumen of the Meuwould precipitate the anomatic of the *Brazili* air, and perfect aware of fine quality and of commercial Burgundy type. It could be combined with the hillside *Zinfandels* and *Mataro* at St. Helena with advantage. A little judicious grafting would add mu to the St. Helena wines in a very short time

CRABE'S BLACK BURGUNEY .- This variety has been given a conventioual uame for purposes of identification. Mr. Crabb ob-taiued it from Mr. Delmas, who brought it talued 14 from Mr. Definas, who foreight it was only preserved in a sufficient plotter, where nearly all the most celebrated to Green Valley from San Jose. I find it was only preserved in a sufficient quantity vines are growing; meanwhile my fields of in Mr. Definate scalection nuder the name in Mr. Lefranc's vineyard in Santa Chara (californica, Riparia and Arizonica are los-of Petit Pinot. He claims that he im-

Odart agree in describing the wine, but the ported it, together with his other varieties, from the Charente, France. I find all collection, except this one, true to the I find all his scriptions given by Cont Odart of Cha-scriptions given by Cont Odart of Cha-r.nte vari tres. There is a *Petil Piaot*in the Charente, but it is a white variety. dieve there is no doubt but that it can from the Charente, and it may be the vine described by Odart as the *Pinot Noir* of that district. It is a vine of great pros-pective value for our coast conntics. It produces well, even with short pruning, gives a wine of fine color and Burgundy spic. It ripens nearly as late as togethe fandel, and might be fermented togethe It ripens nearly as late as the with the Malbeck; possibly in some seasons with the Zinfandel. It has a drooping growth, and would probably do wel sloping lands in Chaintres. Combined with Mataro, Zinfandel and Trousseau, it would probably finish its after fermentation in and the second second second second second second second and Meunier, carefully handled, it ought to make a fine Burgundy type.

The Burgundy Pinot .- This, par exthe BURGUNDY FINOT.— This, put et-cellence the Burgundy wine, boast of a fam-ily of varieties, of which the Franc Pinot is the chief. It is not yet cultivated in any quantity sufficient to give token of its merit in this State. It has been abandoned on account of its very shy bearings. However, been abandoned on those who have tried it in the past have generally subjected it to short pruning, and there is yet not any true test of its value to us. By the Chaintre system I believe it could be made to yield, on our good Napa and Sonoma hills ides and in similar good places, a crop of two tons and a half to the acre. This would be profitable if the wine should prove af fine quality. It will re-quire considerable experiment before we make any positive advance in this direction. Mr. J. H. Drummond has inaugurated experiments at Glen Ellen, as I have done also near Livermore.

PETITE SIRBAH .- This noble variety ish PETTE STREAM.— Inis nobe variety sequi-same that forms the foundation for the grand wines of the Hermitage, in the valley of the Rhone, France. It requires long pruning and is a sky bearer, though a long pruning and is a shy bearer, though a vigorous vine. Its vigor indicates to me that by the Chaintre system a profitable crop might be obtained; at least 1 an willing to test it. A small quantity of wine made in 1882 by Mr. Drummond sufficiently proved its kiellity to its reputation. None are yet planted in practical quantities. A white grape, the 200 second, the most prominent associate that it has in the Her-pitzer. So much is thought of the Hermitage. So much is thought of the Her-mitage wincs in France that a large portion is taken to Bordeaux, there to be blended is taken to Bordeaux, there to b with the fine Médocs. I believe that the Sirrah would succeed well at San Gabriel although a small crop could only be ex-pected; it would set its herries well also in San Diego county, probably. In a few years we shall know something of this interesting variety.

MALBECE .- This vine, of which there ap pear to be several varieties—generally classed under the name Cot, viz.: Cot a queue vert, ('ot a queue rouge, ('ot de Bordeaux (this last is properly the Malbeck), is the most popular claret grape through the cen-France-from the Burgundy district the of France-from the bargundy district to the Atlantic coast at Bordeaux. Of the Bordeaux clarets, as known to the world, the wine from the *Malbeck* is no doubt the characteristic base. Near Bordeaux it is cultivated in the bottom lands, or Palus, besides being in certain proportions in choice Médoc vineyards, though not in all. man not in all. A Bordeaux critic says that the Malbeck is A horizent's time says and the motion is the first order of the constraint of the composition of the celebrated Bordeaux clarets. This, how-ever, is drawing a fine point, because Mal-beck wine is relatively superior to the greater portion of the French vintage. If we only had our California clarets up to the stand ard of a good Malbeck, we should have no fear in entering the markets of the world; e could sell now a hundred million gallons of Malbeck wine to France. Of the Bordeaux varieties this is the only

Or the Bordeaux varieties this is the only one that has been sufficiently propagated here to be considered practically introduced. The other higher classed varieties were gradually abandoned because their crops were so light and proper systems of pruning were not understood, and even the Molleck

throughout several others. A few have tried to propagate it systematically in recent years—motably Mr. G. Groezinger of Yount-ville, Captain Nichsum of Ruhn-frodt, Mr. Scheftler of St. H-lenn, Mr. J. P. Smith and others of the Arroy odd Valle district in the Livermore Vally and the Nato-ma Yinkyard Company. Mr. Grabb of Oakville is also to be mentioned in this counselion, and to his experiments meinly throughout several others. A few have tried Oakville is also to be mentioned in this connection, and to his experiments mainly is due the present favor with which the wine is received. Mr. Lefranc has not prunch his *Authecks* as they should be, and has fallen into the error of picking his grapes over ripe. I have seen two only of his vintages of this grape which were suc-cessful in point of perfect fermentation. Those, however, have caused me to believe that in this State we need not despair of rivaling the highest types of Bordeaux wines. The houquet and general character were exceedingly fine. Mr. Crabb has shown that with this vine he can * t abundant color in places where Zunfundel and Maturo refuse to respond. It is indeed a bottom land grape.

It is subject to coulure (failure to set its fruit), and this year was one of the many choice varieties that succumbed to the ho blasts in June. This ought, however, not to discourage planters too much. We not produce choicest wines and obtain highest prices without some sacrifices. If it can be cultivated profitably in France, it ought to be done also here. The Cot is the ought to be done also here. The Cot is the variety most used in the region where the Chaintre system was invented. There it yields more than twice as much by the new system as it did under old systems, most carefully managed. I believe that by the Chaintre system we may succeed in our coast counties in profitably cultivating the Malbeck. The same night be said of the regions about San Gabriel and San Diego. should not expect it to succeed well regions of great heat and sudden extreme regions of great heat and slidden extremes of temperature. With Malbeck, a combi-nation of Mataro, Zinfandel and Charake Noir ought to produce a fine wine of Bor-deax type after two or three years in cask. Mar. Leftmen calls his vines ("abernet-Malbeck: that is because he histories that has (obspriet mixed) and the down of multi it is such a mixture, which if do not doubl, it is one of advantage. True collections are now being propagated most extensively, be-ing those of Mr. Drummond, the Natoma Land and Water Company, H.W. Crabb and my own—these will serve to verify the vines now planted in mixture. I believe it would be wrong to tie this variety up to high stakes, as is done at St. Helena with Riesling. Such a practice cannot be followed with black grapes without loss of quality Some one of the methods prac and color, ticed near Bordeaux or the Chaintre must be adopted for the Malbeck. The fruit must be kept near the ground to secure even maturity and good color. Those who have been disappointed with

Those who have been disappointed with the Malbeck this year should remember that this is an unusual year for such varie-ties, the Malbeck not being the only one to suffer. Moreover, those who would The summer is a supervised of the source of of about twenty per cent. Future es

CABERNET-SAUVIGNON .- This is the highest type of Bordeaux claret grapes. It a very shy bearer and demands long prut It is ing-trained low. It is only experimentally known here at present. The sample of known here at present. The sample of wine made by Mr. Drummond in 1882 was more admired at the last State Viticultural Convention than any other on exhibitionnotwithstanding its youth. Those who are now experimenting with this variety are imnow experimenting with this tracket, it is not and the porting the entire of the second secon Tam out it. Those who intend to be with vines would probably be wise to plant re-sistant stocks while experimenting with them; as soon as they have determined what they will select to graft with, they will have well developed resistant roots ready for their work. That is the plan I pursuing. I have an experimental k, where nearly all the most celebrated am block

my rich marl subsoil. I have already grafted many varieties to test them—hoping to succeed well with either the Cabernetauvignon, Petile Sirrah, or Franc Pinot, as

Saucignon, Fetile Sirrah, or Foure Pluod, as a principal stock, my resistant roots nearly all being planted for the *chainter* system— some "Kalf eter, some TX21 feet. I shall not mention the *Verold*. Merild and oth r Médoc vines. This paper cannot be extended so far as to discuss all impor-tant experiments; I alim to cover heading features only.

CARIGNAN .--- I do not participate in the opinion of those who are now inclined to give this variety a higher rank than it has in Europe. I believe they are misled by the delusions of new wines. It may be safely said that when new wines are agreeable to drink they will not be improved by age. I have seen lately a Carigan sample at Captain Nichaum's, which was the favorite last year when it was first made, now becoming diseased and acid, and by its side a Mataro and a Chuuche Noir, which were not liked last year, are now he

ginning to show quality. "The Carignan is a variety from the Mediterranean coast of France, and is there cultivated with the Mataro and Grenache, principally on account of its deep color. I cannot find that it dominates deep color. I cannot had that it dominates in any vineyard. It is a most valuable vine, used in conjunction with such grapes as the Maturo and Grenache. It is best suited to districts where the earlier-ripening noble vines are apt to become over-ripe. It requires short pruning.

GRENACHE .- This vine is so vigorous and Grine and Second and the second of the second secon sweet red wine. In France it does not go alone into the cellars. It is destined to play an important part hire, but should be kept out of the claret vineyards of the coast counties. For the interior and some parts of the south, together with Motaro and Carignan, it will probably find its trus place, as in Europe. It will succeed and flourish in arid places, where a Zinfandet nourish in and paces, where a Zardanee would fail, and it will strike its roots into rebellious soil where a Mataro would perish. It should be kept away from early perish. It fall frosts.

POULSART, OR PLOUSSARD .- This variety, which is known as the vine of finest qua ity in the Jura, where it is cultivated wit with ity in the Jura, where it is cultivated with the Tronssent, Beckin, ed., is found, true to name, in Mr. Pellier's collection, though in small numbers. It is very subject to *evalute*, and was not propagated for that reason. Mr. Portal has a vine which he calls *Plousard*—one of the synonyms of the *Poinsard*—which, until the Iasi State the Foulsard—which, until the last State Vilcoultard Convention, was supposed to be correctly named, notwithstanding its fertility. When shown at the Convention, however, it was clearly not correctly named. It is no doubt a valuable grape, but what its true name is we have not yet discovered. Mr. Portal's vine might profit-blue he preparemented but the *Reuteric* is not ably be propagated, but the Poulsart is not a desirable acquisition until after experiment has proved that it may be suited to the soil and climate selected for it.

FOLLE NOINE .- This is also a fertile vine of the Charente, apparently giving good color and quality to claret blends. Not much, however, is known of it here. It bears well in the one place that I have seen it.

MISCELLANEOUS VARIETIES .- Experiments are now being made with a great many other important vines, such as *Tannat*, *Mondeuse*, *Aramon*, the Portuguese varie-ties, etc., but the record is too voluminous for the present writing. I have touched upon the most important varieties for those who wish to plant new vineyards with stocks that can now be obtained in the State; also the well-known types which we should strive to reproduce if possible and practi-cable. The studies of Portuguese, Sherry and Madeira varieties are too new for much comment.

COLORING VARIETIES .- There are varieties of vines specially valuable for their coloring properties useful to the wine-maker whose wine is deficient in color. Prominent among these is the American grape, Lenoir, which has a colored juice, and whose wine is a tincture of coloring

very difficult to propagate. Those who wish this variety had better graft it low down on vines already growing, so that it may strike its own root above the point of union, and so accomplish also its resistant role. Mr. its own root above the point of union, init so accomplish also its resistant role. Mr. Crabb has two vines, which be calls *Fled d' Pedrix* and the *Gamma Teinterice*, both of which give intrase and benatiful color. The former, *D* believe, has been accidentally missianed. The common *P* intraver is well known, bucks explisit to small to permit it to be much used. In the south of France, during this gen-

eration, there has been created a new family of coloring varieties—being hybrids between fertile, heavy-hearing vines and the Teinturerule, heavy-heating times and the reconst-rier. This is the Bouschet collection, most of which I am now experimenting with. The best known are the *Petil Bouschet* (hybrid between *Aramon* and *Triaturirr*) and the *Alicente Bouschet* (hybrid between the *Petil Bouschet* and the *Greatchet*). The latter grows vigorously with me, and I expect to see its fruit next season; so, also, I expect to have fruit from the Petit Bouschet, Gros Bouschet, Petit Bouschet et Moraetc

We shall soon know how to correct deficiencies of color. In Fresho, at the Eisen vineyard, I have observed that the *Trintu-*rier and the *Norton's Virginia* fail to give their accustomed color. I noticed the same

The Cynthiana, of the same family as the Lenoir, shall receive attention as a variety valuable for color, and finer in quality, but Jess fertile.

AMERICAN RESISTANT STOCKS.

I shall refer only briefly to American tocks for grafting—not those valuable for their fruit. This subject has been fully treated upon in my first Annual Report to the Commission, excepting perhaps the latest knowledge concerning the Ualifornica and Arisonica. I shall now only dwell on this topic sufficiently to speak of three spe-cies which I consider most important.

ores which i consider most important. Virus Rirzhri...-This wild species grows in the Mississippi and Missouri valleys, having the widest range of adoptability known to any vine. It is now the favorite grafting stock in Earrope; it grows easily from cutings, and is reliable as a resistant vine. Critica and the state of the state of the State from Professor George Husanan and Missrs. Contexts & Tool, or Napa, or from my own e dilections. Seedlings and rooted ent-times have bene exhausted to for as I known tings have been exhausted, so far as I know. I have a car-load of the *Ripuria* cuttings, received from the wilds of Nebraska. Seeds can be procured by those who wish to propagate seedlings.

Vit's Californica .- This is the native File's Cattornica.—This is the narve-wild vine of California. I was the first to send it and the V. Arizonice to Europe for experiment, and have calificated and propa-gated it largely for four years. It is ser-tainly a reastant vince our experiments in Sonoma clearly demonstrate this fact. If is the series of the series when in a calif. is also a vigorons grower, when in culti-vated ground, and makes a stonter trunk to graft into than any other of the wild species now used. It strikes deep tap roots and takes the graft of all the European radiation takes that have been tried, with great facility. In my opinion, all its merits be-ing considered, it is superior as a grafting stock to all others. It does not take root readily from cutures—so the plant must be for practical purposes, propagated from the seed, which is not difficult to accomplish. Abont 100,000 seedling Californicas have been planted in this State during the last last year, one hundred and forty thousand are engaged for planting this coming season, and I know of only forty thousand remaining unengaged.

VITIS ARIZONICA .--- This is the wild vine of Arizona. My first essays were with seed procured at an altitude of six thousand feet above the sea. It is unlike in growth any other species of American vine. It makes It makes other species of American vine. It makes a straight, thrifty stalk from the seed, and is more rolust in the trunk than the *Riparia*. It is a most resistant vine. Iu San Diego county I have seen a specimen seedling, which I sent to Major Merriam, outstripwhich I sent U. Major Mernam, outstrip-ping all others in the experimental block. With me in the Livernore Valley it pros-pers, but does not quite equal the Califor-nics in growth. I am not certain whether it can be propagated from cuttings with facility. I believe not. For two years I

matter. It has the merit also of being a have failed to obtain fresh seed \mathbb{T} the crop true resistant to the phylloxera; but it is of wild fruit having dropped before ma-very difficult to propagate. Those who wish turity; so I have been unable to get more this variety had better graft it low down on stocks to effer. I believe it will grow well vines already growing, so that it may strike on our most arid hillsides.

IN CONCLUSION.

I shall apologize for not describing many a such varieties as the *Barbarows*, White Nice, etc., but these are not of great importance, Raisin and table varieties I shall refer to in another paper. In all the I have wri-ten I reserve the right to he inconsistent, whenever further study teach s me to avoid a pride of opinion, while I shall always state as positively as I can all that I think I know with certainty. This study of vines is most kaleidescopic, and som times confusing. I believe, however, in fixing upon certain objects to attain, and from those standpoints trying to bring order out of chaos.

AD MAJOREM CLORIAM BONI VINI.

The undersigned having enlarged his business, has opened a branch office at No. 321 Montgomery Street, where information can be obtained concerning viticultural and horticultural lands, and where orders for vines and vine enttings will be at this office; also maps and the plan of received, as well as at the old office, No. 111 the subdivided tract. Leidesdorff Street.

necessary to he done in establishing a flourishing colony of wine producers in the Livermore Valley, I shall now devote my attention especially to the development of the Viticultural and Horticultural resources of San Diego County, which county is one of the most promising in the State.

Information may be had at this office concerning the remarkable offering of the

EL CAJON LAND COMPANY.

And selections of land and subscriptions to the stock of the Company may be made through this agency. This Company controls 27,000 acres of land in the richest part of San Diego County, where the finest raisins in the State are now made, and where nearly all kinds of fruit, particularly the apricot, pear, apple and olive, are raised to perfection without irrigation, and where, in proper sites, the orange and lemon are successfully grown with such slight irrigation as may be provided by means of windmills. The property commands ample means for irrigation whenever its settlers may desire to use the same.

This property is being subscribed for at an average price of less than \$10 per acre to the stockholders; 2500 acres of choice land, platted and laid out with broad avennes, will be immediately allotted to subscribers in severalty. This tract of platted land is worth and has been selling for \$100 per acre, but it is included in the whole tract at the average price; 10,000 acres of the whole tract are arable; the balance grazing lands.

THE DIRECTORS.

3 Of this Company will soon be announced officially, as follows:

ABPAD HABASZTHY, President,

GEORGE WEST, GEORGE A. COWLES, CHAS A. WEIMORE

The Trustee, during the subscription to the stock, is Mr. Bryant Howard, the cashicr of the Consolidated Bank of San Diego. Wm. B. West, Esq., who has made special studies in viticulture and horticulture and who has studied raisin-making in Spain, as well as in this State, is a subscriber to the stock of the Company and will devote considerable time during the coming Winter at the San Francisco office of the Company, for the purpose of giving information to those who may desire the same, concerning the prospects of this enterprise. Prof. Frederico Pohndorff has en gaged a portion of the land and stock with the object of establishing an olive orchard. Those who subscribe early and make early selections of the platted land will never regret doing so. It is expected that all the land will soon be taken up. Samples of fruit, raisins and wine, raised in the El Cajon Valley, can be seen

Those desirous of purchasing a large Having accomplished nearly all that is tract of land -say 10,000 acres, part grazing and part arable-partly the finest alfalfa land, can find a good opportunity, if applied for soon, as the company can dispose of that much for each in one body in terms that will be most advantageous.

CHAS. A. WETMORE, No. 111 Leidesdorff street, Branch office : No. 321 Montgomery st., San Francisco.

For information address also: GEO. WEST, Stockton. DR. JOSEPH JARVIS, San Diego.

Receing up Business.

Success in business matters is a subject that has been well worn by trade papers, and yet there is one feature that is con-nected with the matter that will bear considerable comment. That feature is how to maintain a successful business after it has once been obtained. Examples are has buck the bound of a marchants have worked hard, built up a fine business, and were making money, when a palsy would seem to have fallen on their business, and the trade they had worked up rapidly dwindled awa

There must be some reason for such a change, and it is not hard to find. The simple fact of the matter is that no business simple fact of the matter is that no business, even at a auccessful stage, will run itseif. Here is where many men make a mistake. Being in a pasoperous condition, they say to themselves, "now I will eat, drunk, and be merry, for my business will now take eare of itself." But a grand mistake is made, and, left to itself, the business does not gather volume of its own accord, but more down bill with an actionishing expidition. down hill with an astonishing rapidity.

We believe it takes as much or more energy and push to maintain a business than it does to build it up. This is a truth that will apply to enterprise of every kind. How soon Stewart's immense trade was lost when left to run by its own momentum. In commercial matters eternal vigilance and work is the price of success. He who neglects to use every means to increase his trade must inevitably run behind. There are no commercial hitchings-posts, where a man can tie and henceforth take his ease Mortgages and Government bonds are about the only business investments that do not suffer by neglect. A house divided against itself can not stand, and a businesa ARPAD HARASZTHY, President, DR. JOSEPH JAEVIS, Vice-President, -St. Louis Grocer.

RIPARIA CUTTINGS.

We offer the above from \$4.50 to \$7.50 per M., according to size. They are cut fresh and heeled in every day, from the vineyard of Judge Stanly, near Suscol, Napa county. The wood is much shorter jointed and better ripened than imported cuttings, and guaranteed true. There are frequently five buds on a cutting, where there will be only two or three on one of the same length raised in Nebraska or Miasouri. We have used imported cuttings for the past four years, and our experience. together with others, abundantly proves that cuttings raised here will root 90 per cent, against 15 or 20 per cent of the imported ones. This we will demonstrate to any who will call at our nurseries. Therefore, 1,000 of our Riparia cuttings are worth more than 5,000 of the Eastern ones Best references given.

COATES & TOOL.

NAPA, CAL

"The Wine Press and the Celler."

A MANUAL FOR THE WINE-MAKER AND THE CELLAR-MAN

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FRENCH GENTLEMAN, THOROUGHLY A acquainted with vineyard work, wine and brandy making, wants a situation. Apply to

A LEFEVRE,

P. O. Box 121, SANTA ROSA, C'AL-

The El Cajon Zinfandel,

Here is another positive testimony as to the quality of the Zinfandel wine made thia season from the El Cajon maiden crop: SAN FRANCISCO, Dec. 29, 1883.

Chas. A. Wetmore, Esq., San Francisco-DEAR SIR: The sample of Zinfandel cluret you sent me, made on the El Cajon property, near San Diego, has caused me a most gratifying and agreeable surprise. Without the sample, I would not have believed that any place located so far south in our State could produce a claret with all the characteristics and best qualities of the wine produced from the Zinfandel grape in our most favored cooler northern counties. Since its reception I have tasted this wine carefully, and many times during the day, to ascertain whether I could detect any oh jactionable peculiarity, and have failed to do so. It is an excellent wine in depth and tone of color, in that elegant characteristic, Zinfandel bouquet, that inviting freshness of taste belonging to the wine of this grape, accompanied by a pleasing astringency, and possessing a good body, without any lingering sweetness. In short, it is a characteristic and good Zinfandel claret in every sense.

The Zinfandel grape I have found to be the most sensitive of any grape coming under my observation in our State, and loses most of its characteristic finer qualities, such as bouquet, flavor and agree-able freshness, whenever planted in any soil or elimate that is the least uncongenial. In this sample from San Diego it has rethe land everything, and I can safely say that the land on which it was grown is capable of producing most excellent wines without irrigation. With a view to ascertaining its alcoholic strength, I made three tests, and find the sample to be 12.4 strong, which shows an excellent and complete fermentation, there being to the palate no perceptible amount of sacharine left

I may say here that I have for many years been a firm believer in the great agri-cultural and horticultural resources of San Diego county, and have continuously re-fused to dispose of lands acquired there by my father and grandfather in 1550, and which are still held by our family. This belief I inherited from my father, whose confidence was such that, in 1850, he or-ganized a company among his fri ads to plant a vineyard and horticultwal garden in the Mission Valley, and work began for a wine vineyard, from records in hand, on the 4th of March, 1850, and finished February 13th, 1851. These plantations were made, 1 believe, on the present lot No. 1107 of the hundred and sixty acre range, and Joseph Reiner was put in charge. Upon my father's election to the Assembly the planta-tions were discontinued, and afterwards entirely abandoned.

I remember distinctly the bringing and Planting of grape cattings from the old Mission of San Luis Rey, and the planting of grape seeds taken from boxes of Malaga of graps seeds taken from boxes of Malaga, Takins, as well as date seeds, tobacco, and all manner and kinds of vegetable seeds. Had these efforts been properly sustained, the horizenitarial status of San Diego county, I believe, would now be second to none in the State. In closing, let as say batter direct thing the future of San Diego Matter direct the state of San Diego. will come from the proper development of its horticultural and viticultural resources from the prop -r development of which, after recent careful examination, onsider to be unexcelled by any part of ur State. Yours sincerely, ABPAD HARASZTHY.

What a waste of water power! It is estimated that ninety thousand milliona of cubic feet of water pour over Niagara every hour. Estimating the fall at 168 feet, this means about 500 million horse power running to wasta.

THE BAISIN INDUSTRY.

Mr. William B. West is unquestionably the best informed man in this State in the matter of raisin culture. Having had a ripe experience as a pion er vine grower and nurseryman on this coast, he was well prepared to make the investigations that he undertook in going to Spain to study raisin making at Malaga. He gave the subject close attention, and has frequently made public his observations. At Sacramento. three years ago, he delivered the lecture on raisins before the Sacramento Valley Viticultural District meeting, presided over by Mr. Blowers. His remarks were widely published. We remember that at the close of his lecture, being questioned as to the climate of Malaga, he said it was more de licious and mild than the climate of California. He was then asked by Mr, Wetmore whether he had ever visited SouthernColifornia, and particularly San Diego county. He replied that he had not done so; and Mr. Wetmore told him that he would find the climate of Malaga at San Diego. This was three years ago. This year Mr. West has visited San Diego, and becoming charmed with its climate and prospects, has invested in land, and is now planting a vineyard of Muscat grapes there. This much a propos to the following extract from a letter, which he has written to us in response to an inquiry about raisins, etc. He now writes:

"I have watched with much interest the progress of raisin culture in this State, and have long been of the opinion that the Muscat varieties for raisins are not a perfect success in the northern portions of the State, except in a few localities. There are still many boxes of good raisins made, but not near the quantity that was anticipated. The reason for this is that the Muscats are very sensitive to climatic influences. A cold wind during the season of influences will render the blossoms sterile; a hot spell during the early summer will cause the fruit to drop, or a cold summer will retard the maturity of the fruit so that it is diffi-cult to cure, while the early fall rains often destroy the crop, or render costly artificial methods for drying necessary. It is a well known fact that there is no place in Europe where the Muscatel grape can be success, fully grown, except in the district surround-ing Malaga, where the climate is exactly suited to it. This will be found to be the case here. Only in choice localities, fitted by nature for its growth, will it be found profitable to cultivate them for raisins.

"A careful consideration of the condi "A careful consideration or the const-tions necessary, and a study of its products, lead me to believe that the southern por-trained the southern believe that the counties of Los tion of this State, the counties of Los Angeles, San Bernardino and San Diego, are particularly favored with the climate necessary, and will soon be the raisin center of California. These remarks apply, of course, only to favored portions of those counties, sufficiently moist and free from damp fogs and hot blasts.

"As you request my opinion particularly both San Diego county, I will say that, previous to my visit last summer, I had supposed that it was almost a descrt, posing, it is true, a fine climate and one of b st harbors in the world, but was only a cattle range and a sanitariun, a dry, atid waste. To my surprise, I found many bantiful, ferfile valleys, producing fine, rich, pulpy, thin-skinned grapes, which, when cured, made the best of seen before, and which would be profitab to grow for either San Francisco or the Eastern market. There are other varieties of late-ripening grapes of a firmer texture, suitable also for the Eastern market. I am told that apricot peaches and prunes do well, although I did not see them, but am satisfied, from the vigor of the trees, that it is the case

"The apples were the greatest surprise to me-hard, firm, and of the finest flavor, they rival the best of our mountain fruit. No better investment can be made in the

fruit line than the planting of an orchard of Newtown pippins of or Gravenstown apples in

San Diego county. "The pears also were of the same nature, firm and good-flavored, suitable for Eastern hipment.

"It will astonish you perhaps when I tell you that beside the apple, pear, plum and peach, they can grow the orange, lemon, lime and pomegranate to perfection; that the grave is profitable; that the olive is thrifty and wonderfully productive; that all these can be produced at little expense, in most places without irrigation; that there is a freedom from blight, mildew and in-Is a freedom from ought, innerward in sect pests that is unknown in other parts of the State; that, with all this, they have a most delightful climate, a foothill country with a sensible air, and a soil not worn by previous cultivation.

^{c1} have become so much impressed with the value of the lands in San Diego county, that, with some of my friends, I have pur-chased a large tract for the purpose of planting a vineyard and orchard. I have also taken an interest in the El Cajon Land Company.

Tricks of French Brandy Merchans,

The French brandy merchants are much moved at the publicity given to the tricks of their trade in the English newspapers. The figures given by their own Minister of Agriculture in his recent report on the wines of 1882, are conclusive as to the fact that the vineyards of the two Charentes, which alone supplied the genuine wine brandy, are irretrievably ruined. These two departments, which were devoted almost wholly to grape culture, gave 311,-000,000 gallons of wine in 1875. Last year they only gave one-eighth of that quantity, being a falling off of 273,000,000 gallons and the quality was exectable. The condi-tion of Charente proper, which produced the true cognac, is even worse, for the vintage only gave the twenty-second part of the yield of 1875, and the ravages of phylloxera are each successive year going from bad to worse. In fact, the pest has now utterly destroyed throughout France nearly 2,000,000 acres of vineyards. Be-sides this, 1,600,000 acres more are now in different stages of destruction, which goes on at the rate of three years to each plant, for that is the time the insect takes to kill the hardiest vine.-N. F. Sun

A man has invented a chair that can be adjusted to 800 different positions. It is de-signed for a boy to sit in when he goes to ehnreh.

RIPARIA CUTTINGS.

The superiority of California grown Riparia Cuttings over those imported from the East can be proved, and demonstrated to the satisfaction of anyone who may call at our nurseries. Whereas a 15 to 20 inch imported cutting will frequently have only two or three buds, those raised here, which we offer for sale, have from five to seven. and the wood is also better ripened. We do not hesitate to assert that

1000 of home raised Riparia Cuttings are worth 5000 of those im-

ported,

and we can prove it from our own experi-

We have now about 250,000 made, which are heeled in every day as they are cut, and have more to make. Our expenses in obtaining these cuttings (from the 3 year old vineyard of Judge John A. Stanly) are very great; but we offer them at the low rate of \$4.50 to \$7.50 per M., according to size. References given if desired.

COATES & TOOL.

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SEASON OF 1884! VINES and VINE CUTTINGS

I take pleasure in informing my patrons that I shall be able to furnish, if called for soon, limited quantities of

GENTINE CUTTINGS

Of the following rare varieties :- FOLLE BLANCHE, COLOMBAR (Sanvignon vert) MATARO, CARIGNAN, GRENACHE, PETIT PINOT (Crabb's Black Burgundy) CHAUCHE NOIR, TROUSSEAU, MEU-NIER (same as the so-called Franc-Pinot of Mr. Scheffler-misnamed), CHARBONO, FOLLE NOIRE, MALBECK (same as Lefranc's so-called Cabernet-Malbeck) MOSELLE RIESLING, WEST'S WHITE PROLIFIC, MUSCAT of FRONTIGNAN, SEEDLESS SULTANA, etc.

The prices of the foregoing are capricious and some of the varieties, particularly MATARO, MALBECK, CARIGNAN, MEUNIER and WEST'S WHITE PRO-LIFIC, are nearly all engaged at the present time.

Price lists will be forwarded to those inquiring, as circumstances vary them.

Also, All the Well Known Varieties uch as ZINFANDEL, RIESLING. CHAS-SELAS, CHAUCHE GRIS, BERGER, MUSCATS (Gordo Blanco and Alexandria) FLAME TOKAY, etc., etc.

ROOTED VINES.

Particular care will be taken in respect to rooted vines to guard against infection by diseases. I can furnish rooted ZIN-MALVOISIE, VERDAL, FANDEL, FEHER ZAGAS, CHARBONO, etc; at varying prices, according to the domands of diff-rent producers.

Also a few thousand CALIFORNICA SEEDLINGS; RIPARIA SEEDLINGS all engaged.

RIPARIA CUTTINGS.

Having made necessary arrangements, I am prepared until January 15th to offer fresh RIPARIA CUTTINGS from the forests of Nebraska-car load already arrived in hetter condition than ever before received in this State, as follows:

36 INCH CUTTINGS at \$ 10.00 per M.

42 11 ··· \$12.00 ·· Ten per cent off for cash within 10 days after receipt and acceptance of orders.

For those who desire shorter lengths I will fornish

10 to 15 inch cuttings at \$3.50 per M. 15 to 18 " " " \$5.00 " " 18 to 20 " " " \$6.00 " "

But I advise purchasers to take the long cuttings and prepare them to suit themselves. This is the cheapest offering of Riparia cuttings ever made in California. All of these Riparia stocks not sold he-

fore January 15th will be sold at public auction to the highest bidder. SEED,

I have fresh Riparia seed (from Nebraska) to offer at

\$2.50 per lb, for less than 5 lbs. \$2.00 0 5 lbs. and more. Also, Fresh Californica Seed at

\$1.50 per lb. for less than 5 lbs.

5 lbs. and more. \$1.00 CIRCULARS

will soon be ready to explain the importance of certain of the rarest varieties and will be furnished on demand, Address

CHAS. A. WETMORE, No. 321 Montgomery St., or

No. 111 Leidesdorff St., San Francisco, Cal. P. O. Address

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