

"The grape is the poor man's fruit, especially one who has only a house lot of the smallest possible dimensions. He can plant vines beside his cottage and their roots will extend and profitably occupy every inch of ground underneath it and from that small space produce all the fruit has family can consume, while the vines afford shade and protection and add beauty to his little home, occupying no space, either above or below the ground to interfere with other interests, and producing more fruit in less time and with less labor and attention than anything that was ever planted."

All of which is charming in truth

30,000,000, Ohio third with 14,000,000 and Kansas, Michigan, Pennsylvania, Missouri, Oklahoma, Illinois, Indiana, Georgia and Iowa with 5,000,000 or less each. California alone had a quarter of a million acres in vineyards with an annual production of 30,000,000 gallons of wine. The investment represented in that State alone is estimated at \$85,000,000.

Wine Tank as Big as a House.

The writer once climbed to the top

All of which is charming in truth unless the phylloxera or the downy mildew or the aphis or the dry rot be-which contained 96,000 gallons of port come appurtenances to vine, or the wine. There are hundreds of casks chickens or small boys of the neighthroughout the State with a capacity

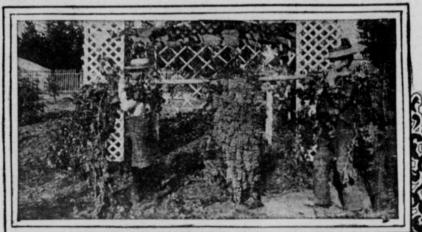
the fruit his family could consume," there would be no incentive to pillage the neighbor's vines.

As for the downy mildew and the unfermented grape juice,

borhood steal all the grapes just as of 50,000 gallons each. The annual they are getting ripe. Chickens, however, should be kept in pens, and if every small boy's father and a grape vine which furnished "all are shipped East every year as table

Last year the Chautauqua district in New York produced 600,000 gallons of

other ailments to which civilized grape | These figures give some idea of our



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Largest Grape Vine in the World. SantaBarbara California.



the vine stimulated to even greater gallons of wine.

than normal production. As a matter of fact, the grape in-dustry in the United States when considered both as a large commercial proposition and as one where each man has his own vine, if not fig tree, is one of a great deal of importance and of

and frivolous, the vine is itself an object of great age and dignity. It is not known how old the grape will grow in America, since we have not been here long enough to make the test, even had yield tannin. a vine been planted with the landing of Columbus. Pliny mentions an Old World grape vine 600 years of age. Some entire vineyards in Italy held good for 300 years and others in Burgundy produced for 400 years and more.



PACKING CONCORD GRAPES, LAKE KEUKA, NEW YORK.

less native vines grow to much great-

The viticulturist of the Department states that he has never seen a vine a wild grape vine on the shores of Mo-bile Bay under which Andrew Jackson twice pitched his tent in his campaigns against the Seminoles, which has a circumference of over six feet, with a supposed age of about 100 years.

The Size of a Great Tree. The largest known grape vine in the world was planted in California in 1842. It has made a phenomenal growth. Beneath its spreading branches, which cover nearly half an acre, 800 persons can find protection from the sun's heat. It bears from six to ten tons of grapes for a crop and the cir-

cumference of its trunk is eight feet. While the wine industry is by far the most important feature of grape growing. enormous quantities of table grapes are raised and by means of improved transportation facilities sent to all parts of the country. The Con-cords, the Delawares and the Niagaras come from the North, the Scuppernongs from the South and the Flame Tokays and other sugary raisin grapes from

the Pacific coast. The last census reported 12 States having in bearing over 2,000,000 vines each, California being first with 90. 000,000 vines, New York second with

vines are heir, horticultural investiga- | grape industry, which, while it is only tions have shown that they can be com-batted with comparative ease by spray-pared to that of the world whose an-ing more and more desirable these ing, and rot not only prevented but nual production is over 4,000,000,000

Other products of the grape are raisins-an enormous industry in itselfbrandy, vinegar, grape syrup, a very superior article, and various pickles, jellies and preserves.

The grape furnishes also important by-products. Feed and fertilizer are Count Their Age by Centuries.

Although the product of its fruit is pomace and fed to stock the same as grain. Ground up, they are used as a power devices substitute for coffee. A high grade oil similar to olive oil is also produced from the seeds, which, among other thiegs, make superior soap. They also

Mr. Husmann estimates that if all the wastes of the grape crop were utilized extra returns would increase its value fully 10 per cent., which, with our pres ent grape production to the value of about \$15,000,000, would mean an ad-ditional earning of a million and a half, and this with our viticultural industry as yet in its infancy.

Feeding Oleo to the Navy.

Considerable of a sensation has deeloped over the furnishing to League Island navy yard. Philadelphia, of butter which analysis has proven to be simply oleomargarine colored with coal tar dye. Samples were taken from the government receiving ship Lancaster, several battle ships and cruisers and from the hospitals of the navy yard by agents of the Pennsylvania Dairy and Food Commission. Dr. Warren, the State Commissioner, declared them to be specimens of coal tar oleo and after considerable controversy, at the in- ease of an expert. As a matter of fact, stance of President Rooseve., they a bright boy can handle a modern gas-were finally submitted to Dr. Wiley, the oline engine with but little teaching. chief chemist of the Department of Ag- Take the farmer who has never seen riculture, who in a full report has sus-tained Dr. Warren's findings. Secre-stop one a few times and study some by the great variations in values of tary Wilson has referred the report to of tary Wilson has referred the report to the President, who has, it is stated, called the attention of the Department of Justice to the matter. Several arwith the same kind attraction of the same kind of coins in different the same state that the same state the s These were cultivated vines. Doubt of Justice to the matter. Several arrests have already been made.

In speaking, however, of the substi- of this sort on a farm is apparent. tution of oleomargarine for butter in There is ensilage to cut, wood to saw, of Agriculture, George C. Husmann, the market, Dr. Wiley said that at present the amount of oleomargarine sold among the endless number of natives in this country whether fraudulently abounding in our forests that has die! as butter or when marked as oleo is gine at small expense. There is dered the making and sale of the stuff dered the making and sale of the stuff unprofitable by levying 10 cents a pound on all that is artificially colored, and half a cent on the uncolored.

> Foreigners Refuse Colored Butters. "Coal tar dyes," said Dr. Wiley, "are not fatally harmful, though by no means wholesome, and dairymen are permitted under the law to use such coloring matter to impart to their butter a rich yellow color. To render this unnecessary, the Department of Agri-culture is now trying to educate the popular taste in favor of uncolored butter, and we are making some headway. Over in Europe one never encounters colored butter in any of the hotels or first class markets. The people there have learned to distrust it. We are coming to this in the United States. Today first-class hotels and fancy groceries will not buy butter that has a high color. Our epicures and those that live well are also fighting shy of it, and as a result the dairymen are beginning to realize that the bottle of coal tar dye is no longer a necessary adjunct to a successful dairy."

John Adams was the author of

Increasing Wealth in the West.

In commenting on the need which has hitherto manifested itself-in the West for calling upon Eastern money centers for funds with which to move Western crops, a New York financial letter states that with conditions as hardly inconvenienced by the demands for funds. In a not distant future it is



SCUPPERNONG WINERY, NORTH CAROLINA.

distant Northwest.

gains that will come this year to the farmers, the surplus that will be left day long scratchin' up the dirt an' for them after paying expenses, which represents their profits. Some of the most experienced experts have ventured in his han' from one year end to ano estimate that the farmers of the other. An' lay! Inited States this year as a whole will find themselves to the good by not less see. than \$300,000,000, and possibly \$400.

Jest laid in reg'lar egg crates. An'

those which the great transportation companies expect to receive for carry ing the agricultural products from the arvest fields to the market to which Mr. Vanderlip referred in his address to the National Bankers' Association at Washington. The United States as a whole ought to be richer by reason of the year's industry, agricultural and manufacturing and transportation, by an amount considerably in excess of a thousand millions.

GASOLINE POWER ENGINES.

Constitutes Great Saving in Horse and Man Power - Have Come Into General Use on Many Prosperous Farms and Homes.

Inexpensive, reliable power on the days when unskilled labor is so high and hard to procure. Gasoline engines, which when started practically take care of themselves, are rapidly supplanting steam engines and horse power, the operation of which requires con-stant attention. The difference in the cost of operating and the advantage of

A few years ago we heard but little about gasoline engines for use on the farms, while to-day we find many of them on up-to-date farms and small business plants. This growing interest has been brought about largely through the improvements that have



A GRAPE BY-PRODUCT FACTORY.

been made by manufacturers during late years in simplifying the working parts of the engines so that the average man can operate them with the stop one a few times and study some The general usefulness of a machine feed to grind, corn to shell, water to pump, in fact a multitude of things that can be done with a gasoline en-

CHICKENS AS GARDENERS.

Can Be Taught to Pull Weeds and Harvest Grain.

"I see as how a scientific perfesser has trained a yaller dorg to count ten an' answer fool questions," said the they were ten years ago, the present record-breaking crop would have strained the capacity of the New York ain't nothin.' I knows an old feller financial centers to the utmost to fur- back yere in th' Valley what beats nish sufficient runds. So greatly, how-ever, has the wealth of the West increased and so large are the surplus chickens when he was a boy. I seen reserves of the farmers that even with some bantams he had no biggern' fleas crops so stupendous as to amaze Eu- an' game birds what c'd step over a rope, New York financiers have been six-foot fence. But that ain't nothin'. Last time I was down 't his place he predicted the West of the Mississippi had a hunderd-acre farm an 'bout ten Valley and of the Missouri Valley as thousand chickens, an' was raisin' well will be found exclusively lending truck for early northern markets. Powerful big chickens they was, an' he had 'em trained so's they'd work his farm for him. They wasn't a weed nur a blade o' grass in that whole farm 'cep'n in the pastures. An' bugs? wy they cudn't a tater bug, nur a cut worm, nur even a cabbage flea get a foot inside o' that farm afore a chicken had 'im. An' that wasn't all. Them chickens c'd see at night. Guess he must a' crossed 'em with owls. Anyways, he never worried none bout early frost. If 'twas cold in the spring them chickens was out all night coverin' up tomatoes an' beans an' ev'ythin' tender. Jest squat over the plants with their wings spread out an' set there till sun up He had tomatoes three weeks ahead o' anybody else. An' that wasn't all. When he planted his beets en turnips en or advancing money with which to passnips he sowed 'em powerful thick move the crops that are grown in the an' as soon as they'd get up 'bout remoter regions of the Southwest or the right size them chickens come along an thin 'em out jest right. Fine eatin' No expert can estimate accurately the for 'em, too. An' 'tween times they Gee whiz! hens was the stiddlest layers I ever But they didn't use no nests.



fast as one layer was full the hens n charge o' the layin' house 'd grab up a new frame an' drop it in the crate. I see 'em fill sixty-odd crates o' eggs in one forenco

"But that ain't nothin' Them hens Well, sir, that feller jest drove 'bou five hundred chickens out in the road and put down a lot o' sacks an' they went to pickin' up that seed wheat faster'n you er I c'd pick up taters They gethered up bout forty bushe in the sacks? Wy of course The was thee roosters a holdin' each sack, an' when a sack was full they'd whip a tie 'roun the neck, set it up agin the fence an' grab up another. They was sich big powerful chickens, you know. An' that wasn't all neither. He had some whoppin' big roosters, an' he sharpened up their spurs in the fall an' had 'em cuttin' corn better'n you or I c'd with a cornenife, an' stackin' it up jest as regar. But shucks! that wasn't nothin'.

Wy I see that felller-" But as he looked around the tourist had fled in horror.

Chinese "Cash."

Consular reports from China are to the effect that the prospect of a reform or rather revolution in the money system of that Empire is not very bright, in spite of the promises to that end which have been made. There are a number of influential elements preventing the change which nations doing business in China have asked, by the great variations in values of introduce a new system will be difficult owing to the dread on the part of the public of anything new. and silver may continue to control the price paid for exports, but copper and brass will for a long time govern production.



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