The Statesman will publish and award a prize each week for the best essay submitted by a grade school pupil on the industries scheduled on this page.

THE PLACE FOR GRAPES. BY PROF.

## SIXTH CONSECUTIVE YEAR

SALEM DISTRICT INDUSTRIES

THE DAILY STATESMAN dedicates one full page each week in the interests of one of the fifty-two basic in 'ustries of the Salem district. Letters and articles from boosters are solicited. This is your page. Help boost Salem.

Campbell's Early is Best for Our Conditions Best White Early, but can be used as a later and Red Varieties and European Kinds-Planting, grape. The Campbell's Early is Pruning and Training Systems, and General Care and Harvesting

ments.

es them.

C. E. SCHUSTER OF THE COLLEGE

Editor Statesman: considered by the majority of peo- Seepage of an extensive character grapes will thrive; and should be moisture well throughout the sea- Island Belle. included in the list of fruits when son, it should not be one that is at chard.

More emphasis will be laid on the use of the grape in the home orchard than for commercial purposes. Except for rather limited acreage in a few local places. grape growing in the Willamette valley should not be entered into very extensively. A small patch of grapes where the fruit is handled properly will, near many of the valley towns, return good profit, but any large increase in ncreage will soon swamp the market and break the price. The shipping of grapes, except for very short distances , will hardly prove satisfactory. California can produce grapes so cheaply that where any great shipping expense enters in, the competition will be too great for local grapes.

rapes should be sheltered as

grape we have, and, due to its. earliness, it will mature well where the Concord, which is somewhat later, will fail to mature properly. Although the Concord s one of the most popular varieties in the western part of the United States, it has not been as successful in Oregon as the Campbell's a good grape for handling on the market, as it has a relatively

tough skin, and though considered by some not quite so high in flapenetrate. With in deep roll is vor as other varieties, it is a very Grapes are among the easiest associated good drainage, as a satisfactory grape. It 'can be and most satisfactory fruits high water table renders the soil picked at the regular time and grown for home use, but unfortu- shallow, for take roots will not still will keep as long as the Connately about the last one to be grow through the standing water. cord or some of the later varieties. The variety advertised extenple. The grape has a definite is just as detrimental as is the sively as the Island Belle is withplace in every home drchard, high water table. While the soil out question the Campbell's Early, where the location is such that should be of a character that holds introduced under the name of

THE OREGON STATESMAN, SALEM, OREGON

A better quality grape for home any one is planting a home or- all water-logged. At times artific- use is the Worden.

al drainage for the home planting This can hardly be recommendwill pay, but in view of the large ed for commercial planting, as the amount of land naturally well berry is so tender that any handtrained, it would hardly seem ad- ling at all will break the berry. visable to drain land for cmomer- pulling the skin open, making it cial planting. Where good air unsatisfactory for commercial purdrainage is secured, good soil poses. It is just a little later than Irainage is usually found, though the Campbell's Early. Due to the many exceptions are to be noted. tender skin, it will not stand ad-The very richest soils are not verse seasonal conditions, as frenecessary for grapes. Soils with quently are met in this section. medium fertility, deep and well- being susceptible to injury from drained prove satsifactory. Of rain.

course, soils can be too poor for **Rest White and Red** the best growth of grapes. The For white grapes the Niagara exact kind of soil is not a dterm- is undoubtedly the best, but it has ining factor in most cases, pro- about the same ripening time vided it meets the above require- as the Concord, making it a little late for many sectionan Where

A fact often of more importance well ripened, it has a most excelto growing of grapes than fertil-|lent flavor and really should be ity of the soll is one of the mois- included in any of the home plantture content in the soil. In order, ings much as possible from the effects in many cases, to maintain the For red grapes we have none of possible frost. Where the home moisture where it should be it is that are satisfactory from a comorchard is iscated in a rather necessary to keep the soil fairly mercial standpoint, but a few frosty location, the placing of the well filled with humus, and this that are very good for home use. grapes adjacent to buildings or in most cases necessitates manur- The Delaware bears rather lightother sheltered locations, especial- ing or the growth of rover crops. Hy, has small bunches of very small ly the south side of the buildings, If, with the use of these mater- berries, but of excellent quality. The Agawam develops very poor ing them from the frost, but bring dition, so far as the humus con- bunches, but it bears heavily and

### THIS WEEK'S SLOGAN

DID YOU KNOW that in the Salem district grapes of the Concord (American) grape family can be grown to perfection in immense quantities; that we have tens of thousands of acres of cheap lands suitable for grape growing; that Salem ought to be the Westfield of Oregon, and the Salem district the Chautauqua grape belt of the Pacific Coast; that Salem ought to have great jelly and jam plants, using an immense annual tonnage of grapes; that there is and will be money in grape growing, and a very great industry in this line is within the grasp of Salem and surrounding country, and that there is now more interest here than ever before in the industry?

### Dates of Slogans in Daily Statesman (In Twice-a-Week Statesman Following Day)

(With a few possible changes) Loganberries, October 1, 1925 Prunes, October 8 Dairying, October 15 Flax, October 22 Filberts, October 29 Walnuts, November 8 Strawberries, November 12 Apples, November 19 **Raspberries**, November 26 Mint, December 3 Beans, Etc., December 10 Blackberries, December 17 Cherries, December 24 Pears, December 31 Gooseberries, January 7, 1926 Corn, January 14 Celery, January 21 Spinach, Etc., January 28 **Onions**, Etc., February 4 Potatoes, Fic., February 11 Bees, February 18 Poultry and Pet Stock, Feb. 25 City Beautiful, Etc., March 4 Great Cows, March 11 Paved Highways, March Head Lettuce, March 25 Sllos, Etc., April 1 Legumes, April 8 Asparagus, Etc., April 15 Grapes, Etc., April 22 Drug Garden, April 29

Sugar Beets, Sorghum, Etc., May 6, 1926 Water Powers, May 18 Irrigation, May 20 Mining, May 27 Land, Irrigation, Etc., June 8 Floriculture, June 10

Hops, Cabbage, Etc., June 17 Wholesaling and Jobbing. June 24 Cucumbers, Etc., July 1 dogs, July 8 Goats, July 15 Schools, Etc., July 22 Sheep, July 29 National Advertising, August 5 Seeds, Etc., August 12 Livestock, August 19 Grain and Grain Products, August 26 Manufacturing, September 2 Automotive Industries, September 9

Woodworking, Etc., September 16 Paper Mills, Sept. 23, 1926

GRAPES FOR THE HOME. BY A GOOD desired to leave for the individual vine is distributed evenly over the four arms. Aside from the four armed Kniffen system, we find the Munson system giving excellent success. This is a three wire system in which the lower wire is placed 3½ to 4 feet from the ground with the two upper wires one foot higher, and at the outer edge of

Running from the cane each way4

on each wire will be left one cane

or arm. The total number of budg

an 18 inch cross piece. The main

INHURSIDAY MORNING, APRIL 22, 19

stalk is trained to the lower wire and then two or four canes are trained along this lower wire. As the buds break and the new shoots the grape, and few crops that will per acre and can be used to supdevelop, they will be upright for a short time, but gradually droop turns. The labor required for neither of these fertilizers fur-

two upper wires. This system of training is more expensive to es- fore the season when other crops and are not entwined by the growing canes or the tendrils of the vines. Also, it allows more cirthe possibility of disease.

General Case, Harvesting The general care of the grape vine is the same as for any other fruit tree. Thorough, consistent cultivation is advisable for the best results. However, it is noticeable at times to what degree tinue to be a popular variety. For to two eyes. If one strong well the grape vines can be neglected a white variety the Niagara is ripened cane has been produced. and still bear a certain amount of standard wherever grapes are cat this back to the height at fruit.

From observation during the past two seasons it would seem hat a few remarks about the harties. vesting of grapes would not come

How They Are Started amiss. Grapes do not develop their full quality of flavor when layering, grafting and from seeds, dental removal of one. All growth they first change color. With a the but for our purposee the first grape like Campbells Early, quality is not developed for some needs to be considered, it being should be removed so as to time after it turns dark. If pick- an easy and ready means of get- centrate all the growth activities ed in the green stage, they do ting the young plants." The cut- into the two canes, one of which not have a pleasant flavor and tings should be made soon after is to become the trunk of the will certainly not appeal to the the vines become dormant in the vine the succeeding year. By the customer. If left until fully de- fall. These should be from 8 to third year the vines should have veloped, the quality is sure to be 20 inches long and made from excellent and the grapes will keep young, well matured wood. On the lower or butt end make a better than when picked green. In picking the grapes, use clip- slanting cut close to the bud and each year. pers or knives to cut off the on the upper or top end leave bunches. Handle the bunches as about an inch of wood above the little as possible in order to leave bud. There are two ways in the bloom on the berries. If pick- which the cuttings can be handled. ing during the heat of the day, one being to put them out where better success will be had in the permanent vines are to be avoiding the shelling of the her- The better way is to tie the cutries from the bunches. The stalks tings into small bundles with the of the clusters will be more or butt ends together and place them less wilted at that time while the in soil with the butt ends up, and grapes will be dry in the bunch. cover them over with 3 to 6 inch-Grapes picked moist will soon develop decay.

No Other Fruit Crop More Easily Grown, Few That Give More Satisfactory Returns-The Labor Is Not Excessive-How to Start Them, and How to Do the Pruning and Training-The Best Varieties for This Section

AUTHORITY ON HOW TO PRODUCE THEN

For instance: Salem district has

two counties growing the sacred

myrtle-the only place it grows on this continent. What unique fact

do you know about the district?

Address articles to Slogan Editor,

care Statesman.

Editor Statesman:

There is no other fruit crop monia. These should be applied that is more easily grown than at the rate of about 200 pounds give any more satisfactory re- plement the barnyard manure, but over, and in this way lay over the growing grapes is not 'excessive, nishes organic matter. and much of it can be done be-Pruning and Training Pruning and training is prob-

tablish in the first place, but is begin to require attention. A more easily handled during pick- number of varieties do well in the the amateurs in the care of the ing. The bunches all hang free valley, and the kind of grapes grape. This first year no supgrown can be governed by perport or pruning is necessary, alsonal requirements. Among the though the young canes may be good culation of air, tending to reduce Early, Moore's Early, Concord, Sweet Water, Niagara, Verdun,

roots will be produced, form a

kept in a dormant condition.

following spring they should be

varieties are Campbell's tied to a stake to get them out of the way for cultivation. The following winter the vines should be Delaware and Agawam. The Con- pruned and staked, using stakes cord is an excellent grape and five or six feet long. The amount has long been our standard as a of pruning done will depend upon table grape as well as for com- the growth. If small growth has mercial production and because been made, remove all but the of its splendid qualities will con- strongest cane and cut this back grown. The Verdun and Dela- which the head is to be formed ware are red grapes of very good (about 54 inches) and tie securequality and Moore's Early is prob- ly to the stake, removing the othably the best of the early varie- er canes. In the first case mentioned, both buds should be al-

nitrate of soda or sulfate of am-

ably the most difficult part for

lowed to develop, so that the plant Grapes are started by cuttings, will not be set back by the acci-

will often aid in not only protect- ials, the soil is kept in good conout hetter quality of fruit due to tent is concerned, the plant food has also good quality. the added heat of such places. A content of the soil will generally frost that will not endanger oth- be taken care of. Moisture is more er fruits is often disastrous to apt to be a limiting factor in more the tender foliage of the grapes. soils than the fertility, so that if It is a frequent occurence to have the moisture contents is kept up by the first growth of grapes hit by the use of cover crops or manure, a frost, and then the secondary the soil fertility itself will be growth come out and develop handled. normally, with the exception that the set of fruit is very light.

If possible, the location should be such that good air drainage will grow and mature fruit in the could be had for the grapes. Espectally is this necessary in a most of the European varieties large or commercial plaintings. will not thrive, with the exception Sloping tracts of land in which the of one or two of the very earliest cold air is drained away to lower levels will afford the maximum protection against frost. Warmer siopes are advisable in growing of heat and funchine. We find that this fruit. Unless the heat is suf- many of the varieties commonly ficient to raise the sugar contest grown in California fail to mature of the grape up to the normal amount, the quality of the fruit is inferior.

For best results, deep, well drained, friable soil is desirable, Grapes are deep rooted, so a soil 4 to 6 feet deep or deeper is satisThe European Kinds

For those people who desire the flavor of Epropean grapes. We found the Sweetwater and Golden Chasselas to be the most satisfactory in general. This is a white or green grape that matures about the same time as the Concord, or

- The Willamette valley is pretty possibly a little later, but often closely limited to the growing of fails to develop the quality that American grapes. These varieties it should In cool seasons, or when early fall rains come, it cool climate of this valley, while does not develop the sugar content desired. In some of the or Rose of Peru doing very well, will be, as it will give the vines a varieties of European grapes. The European grape demands a long growing season with the maximum being successful with them. On planting late in the spring, as the experiment station grounds, this does not give the vine a good the Chasselas, Rose Royal and the chance to establish itself before Chasselas Rouge have proven the hot weather comes on. After ander thegon conditions, many of nearly as successful in maturing a the vines are set out, about the them not even showing any indicrop as the Golden Chasselas, but only thing necessary the first seacation of sugar by the time the fall rains begin, or the frost catchdo not bear any ways nearly as heavily.

**Campbell's Early Best** The regular wine grapes and Of the long list of American raisin grapes of California, cannot factory. The lower soil need not grapes to choose from, the Camp- be considered for this district, as be of the same character as the bell's Early is undoubtedly the they demand a long, warm seaupper soil, but a type through best for both commercial and son for maturing the crep. Many which the grape roots can readily home use. This is the best early of these varieties are under test

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at the experiment station, and | left, but the quality would be demost of them fail to even show cidedly inferior, and it is doubtany degree of maturity in the av- ful if the total production would erage season. In the season of be any heavier.

1922, when more varieties ripened The pruning of grapes is not than ever before, but very few of at all difficult if care is taken in them attained the quality desired the selection of the wood to be for these grapes, while most of left and the number of buds left. them never even ripened enough The bearing of the plant the comfor picking from the vines. ing season will be determined by

The Planting Methods

the number of buds left on the Grapes are generally planted 8 vine. If the vine is weak, fewer feet apart in the rows with 8 feet buds can be left so that more strength will so into producing between the rows. This gives vigorous wood for the coming seasufficient distance for the develson. On the other hand an overopment of the vines and affords ease in cultivation. The earlier Ty-vigorous vine should have more more protected places we find va- grape vines can be planted in the fruit buds left, thus tending to ricties like the Muscat Hamburg fall and winter, the better they out down on the cane growth, dewoting more of the energy to the but these cannot be generally chance to establish a root system production of fruit. Probably planted with the expectation of during the winter season. Avoid with the grapes, more than other fruit, it is a question of the individual development and vigor of the vines when determining how much wood should be pruned away In selecting the number of buds

son is thorough, consistent cultivation to prevent the excessive, loss of moisture from the soil. At the beginning of the second season the general practice is to

first two buds on the cane are more or less ant to be sterile. They will not be entirely so, but the buds farther out will bear a cut the vine back to two buds. The large number of fruit clusters to idea of it is to prevent the canes! of the previous season bearing the bud than the first two, Omit those in the counting of the buds any fruit but rather devoting the energies of the plant more or less on each cane. If, for instance, to the establishing of a root ars- you are leaving six to eight fruit

buds to the cane, it will mean the tem and growing a vigorous bealthy cane for the coming sea- total number will be eight to ten. As the tendency of the vine is son. Although only one cane will to extend the growth each year, be allowed to grow after this season, two are permitted the second bearing only the one year naturseason for the simple reason that aly the bearing wood would soon one of them may be destroyed and be a long ways from the main stalk. From the older wood each this will not set the plant back a year in establishing the frame year there will be found coming up, young vigorous canes. These work.

are usually sterile, but are used At the beginning of the third in renewing canes, bringing the season, the stronger and better cane is selected and cut at, the fruiting wood back. At the time height desired, which will be deof pruning these are cut to one or termined by the pruning system, two buds, forming renewal spurs. which will be followed in the The coming season, these spurs planting. All other canes or will produce good, vigorous fruiting wood, which can be used the growths are removed, leaving the single cane to form the main following season for the development of the fruiting wood close stalk of the plant.

Heavy Pruning Best After the vines become mature

to the main stalk.

. The Training Systems the annual pruning is a very dras-Grapes have usually been traintic, heavy cutting, as over 90 per- ed to the four armed Kniffen Lewis, Wash., with five pounds have plenty of organic matter. done. cent . of the previous season's system. This Kniffen system is wood is removed each pruning more commonly used on Ameriseason. The best fruit and the can grapes than any other system Douglas, Utah, with 0.7 pounds. finest bunches are grown on the of training grapes. The trellis is vines that are heavily pruned, nothing but a two wire berry trel-More bunches might be produced lis. In this the cane or main on vines if more wood could be shoot is tied to the upper wire,



### C. E. SCHUSTER. Corvallis, Oregon.

(Mr. Schuster is associate professor of pomology of the Oregon out in the spring, the calloused the small home planting is what Agricaltural college, and his is end is ready to produce strong is known as the four cane Knifhigh authority in his field. He is roots at once and before the buds fen system. With this a trellis the author of Station Circular 43, develop sufficiently to take up the of two wires is used, the bottom of the Oregon Agricultural Col- sap and plant food stored in the wire about 30 inches above the lege experiment station on "Grape cutting. In the spring put the ground and the top wire about 54 Growing in Oregon," which con- cuttings in a nursery row or in tains illustrations on training and the garden in good soil and where main trunk of the vine is carried or the number of buds to be left, pruning American grapes.-Ed.) it is generally considered that the

### Training Camp Reports

housand youngsters who attended eties can be 'set 10 by 10 feet, cally 90 per cent of the one-yeararmy Civilian Military Training although a planting distance old wood. With well established camps last year are credited with and average gain of several and 10 feet between the plants as to allow about 10 buds to each pounds in weight and almost an will be found satisfactory. This of the upper canes and 5 buds for inch in chest measurment as a result of their month's experience space for the roots and good cir- ing kinds like the Concord, wh in the "school of the soldier." Offical reports from corps area commanders, compiled in the Sur- so as to produce as strong and geon General's office, not that vigorous a plant as possible the there was a great loss of weight first year. During the succeeding years constant and thorough culamong the stout lads who turned out for intensive drill and a cor-blivation is necessary until the is, spurs, for the purpose of g responding upward jump for un- vines reach the bearing age, and ting new canes for the next a der-nourished boys, "whose appe- the same systematic and thorough son's fruiting wood. The comes tilling of the soil must be followtites wer stimulated by the beneficial results of exercise in the ed up each year thereafter in or- wires and secured to them by open."

The Plattsburg Barracks camp fruit, because the grape does not taken not to tie too tightly iso as had the prize pat specimen and do well in sod, and weeds must to check the flow of sap, as the trimed him down twenty-nine be kept down in order to conserve cane enlarges with growth pounds. It also built up an undermoisture.

nourished lad eighteen pounds. The highest average gain in grape requires a well drained of time, and the pruning weight was reported from Camp soil of good depth and should training are easily and quickly per man in 646 boys, while the Barnyard manure is excellent to

smallest average gain was at Fort supply and maintain the needed Congressional committees have plied too frequently or in exces- mant season, which would been told by army experts that sive amounts unless the soil is about the first of Decer there is little difficully with dis- very poor and deficient in the Where possible the pruning should cipline at the summer camps.

Eugene-Through freight term- the amount used being varied to about that time the in-called inal on Southern Pacific moved suit local conditions. The quickly "bleeding" of the vines here; several miles of new termi- available nitrogens are the most all cut surfaces; and while this nal track already laid. satisfactory either in the form of

starting from adventitious ands erect straight stems, with two or more canes for the head and from which the vine can be removed

#### Different Pruning Systems In the pruning of bearing vinea

there are several different systems some of which are more or less complicated and require a lot of trellis, and some that require much time for cutting and tying, Whatever system is employed, it is important to keep in mind that the fruiting branches are always produced on last season's growth. es of dirt. Handled in this way that is, one year old canes. The the butt ends, from which the condition and also the vigor of the plant should be taken into concallous, while the top portion is sideration when pruning. One system often used in commercial Then when the cuttings are set vineyards and well adapted for inches. The cane to form the they can be kept well cultivated up to the top wire and two canes and hoed during the summer. The are trained along each wire, making four canes for each vine. set out in the permanent location. Each year's pruning consists in The planting distance depends cutting away all the tops except Show Gains for Students upon the vigor of the plant, soil the four most vigorous canes proconditions, and the kind of prun- duced the preceding season, and WASHINGTON-The thirty odd ing. The strong growing vari- results in the removal of practiwhich gives 8 feet between rows vines these are shortened back so will give the necessary growing the lower ones, for vigorous groy culation of air for the vines. Af- less vigorous growing varieties ter planting, keep well cultivated like the Delaware, should be pruned so as to leave a smaller number of buds. Other cane coming out near the main trun can be cut back to two buds, the left should be carried along i the der to produce well matured ing with string, precaution being The advantage of this system dis that Like all other fruit crops, the it requires only a limited an ount

Time for Prunin

In this valley the vines can be humus, but should never be ap- pruned any time after the dorneeded organic matter. Commer- not be done later than the middle cial fertilizers give good results, of the following month, After te als

(Continued on page

