SALEM DISTRICT INDUSTRIES

SIXTH CONSECUTIVE YEAR

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

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.

CHERRY GROWING PROBLEMS AS FOUND BY PROFESSOR SCHUSTER OF THE OAC

The Sweet Cherries Must Have Pollenizers, and There Is a Long and Patient Search for the Best Varieties to Be tically identical to the main vari-Used, Having a Bearing Upon Picking and Marketing ety. The sweet cherry produces Problems-There Is a Possibility That Too Many Bings and Lamberts May Be Put Out, Especially in to duplicate the secondary varie-Poor Locations and With Indifferent Attention

while other orchards would regu-

that sweet cherries were self-

dest dreams is to locate such a

Whenever a report is received

Sweet Cherries Self-Sterile

tain years the low producing or-

chards with very few pollenizers

will often produce good crops.

This occurred in 1924. As a rule

these crops occur during those

seasons when warm temperatures

prevail during the blooming sea-

it is shown that the flowers un-

fective and capable of producing

fruit at any time, provided the

Hunting the Pollenizers

In the years of this pollination

varieties would be excellent in the

experimental work, yet varieties

the same results.

tree with good fruit qualities: located of the Bing, Lambert, and

(For the purpose of checking ing a few years ago was focused especially by new growers, it entirely on theset hree varieties. worth while to print below what When these extensive plantings Brof, C. E. Schuster of the Oregon | were supposed to come into bear-Agricultural college, wrote for the ing, the crops, in many cases. annual cherry Slogan number of were very light. Some orchards The Statesman a year ago, as fol- would have good crops annually.

brought his stock of nursery trees across the plains there could have been I'ttle conception of the role periment station disclosed the fact the sweet cherry was to play in the future development of the sterile. In those orchards pro-Pacific coast. With the Royal ducing heavy crops annually were Apr or Napoleon came other les- to be found secondary varieties ser varieties, and from these have planted with the Bing, Lambert, developed the Bing and Lambert, and Royal Ann. The Bing, Lambert, and Royal! Ann make up a noble triumvirate and the acme of excellence for to locate a tree that is bearing

of these varieties. The Royal finds its greatest use in the cannery trade. In the past, except better money-maker than the bearing from pollination of its other two varieties. Lately with lows pollen, we investigate in the the development of better refriling methods, the shipping industry has expanded rapidly, and the black cherries. like the Bing and Lambert, are receiving much at-

Warning on Poor Locations

The prices for black cherries shipped east have stimulated considerable interest in the Bing and Lambert, and we will undoubtedly, find many plantings going out on poor locations in this state. In the Willamette valley shipping cherries were profitable this year. but due to an unusually dry year in which there was little development of brown rot. During ordinary season, brown rot will be a intenace, and always very difficult to control in this section. For that reason the planting of black cherries should be consiput into effect for the brown rot.

Experimenting on Blacks The black cherry has never been successfully canned over a period under way at the present time to determine really successful methods for canning these cherries. and if these are worked out, then we may find and added market for this kind of cherry. On the whole, it would seem that the plantings in the Willamette valley had better be mostly confined, to the canning cherries, which will be the Royal Anns.

Avoid Secondary Varieties Very little is done in Oregon with the secondary varieties. Except in a small way the growing the cold seasons the flowers and of carly varieties, like the Black fruit, but the insects did not Tartarian, has not been undertaken successfully. Early cherries distribute the pollen to the flowers; also from experimental data from this section complete with the mid-season and late varieties der natural conditions are efof California districts. Such cherries are so-much better than the Black Tartarian or similar arieties that the latter have no pollen is placed there. chance on the market. These cerly cherries are only of use in a fimited way we find a few grow- work of the sweet cherry, varietri handling the early cherries thes like the Long-stemmed Watersuccessfully, but these are for only house, Black Republicans. Black very local shipments and very Tartarian, Governor Wood, Elfon oral trade, and cannot be consi- and Coe, with others, were redered in the shipping industry to commended as pollenizers for the

The therry fruit fly is making From an experimental standpoint, its appearance in different parts these worked well, yet from a of the state, and it will be but a practical standpoint in the field short time until it will be in all they might or might not be sections. However, this can be satisfactory. When the work was esally controlled, although it adds taken up again in 1922, the same another burden to the cherry results were obtained. Certain

Due to the excellence in quality of the same name might or might of the Bing, Royal Ann, and Lam- not be successful int he field. bert, and also to the development Black Republican. for instance. for the canning and shipping in- might give good results, or they dustry, the attention in the plant- might not.

ditions, where it was found that no one knew exactly wha was a Long-Stemmed Waterhouse or exactly what was any other variety, especially the secondary vasieies. From five to six types of most of these varieties were to be found and readily distinguished. No one knows how many more there are that are a most or pracseedlings of very high merit, and it is a comparatively easy problem

> A Patient Search In the past a nurseryman could

propagate any tree of the desired should be organized not as a Due to the mixup in nomenclature grower-we could certify as to the individual or to the single The statement that the cherries two views in mind: first to are self-sterile and need cross pol- provide scion wood for topworking of varieties. Their quality and lination is often questioned by the old nonproducing orchards of excellence is so high that they growers as they watch some trees the state; second, provide propahave rated as first class cherries | behave. However, we have yet gating wood for nurseries so that young trees could be put out with and is absolutely isolated from a certified pedigree showing taht any other form of cherry. Tales the parent trees would cross pol-There seems to be a pretty defi- of such trees now and then reach linate with each other. In other our ears, but none of these tales words, this was another phase of have yet been verified. Our fon- pedigreed nursery stock

For this purpose trees were

that there is a self-sterile tree located by charts. Then the polhope that we can lecate a tree in practically all cases were that does not need cross pollina- selected from the heaviest bearing orchards of the district. The aim Such findings, if coufined to the pollination. We made but little state of Oregon alone, might be attempt to find a superior variety looked upon with more or less for cross pollination, or varieties skepticism if that condition held that were superior from the comonly in Oregon. California has mercial standpoint. The locating been working on the question of of the ideal variety is a problem cherry pollination for a good for the future. With the heavy results as found in Oregon. Eng. at the present time and the loss land and Sweden have conducted of income from nonproducing extensive investigations, and their orchards, it was felt that the cerresults check with those of Amer- tiffcation of the material that was ica: namely, that the sweet cherry very sure to work and produce a is self-sterile, and in many cases crop on the commercial varieties more or less inter-sterile, depend- would be of greater importance ing upon varieties. Holland and than to work over a long period France report all experiments with of time in the future to find the

ideal combinations. As it is now, there are at The It is a known fact that in cer. crops on the commercial varieties. This material will be especially material is available. At the same time we have numbers of Royal Ann, Bing, and Lambert trees

in large quantities because it is regular, while those on the white In late ripening fruits the maggets Mr. Miller says he gets a ton a variety commonly found in The spot atop the thorax are very nar- were able to mature undisturbed. and a half to two tons to the acre Dalles district, and also because row and inconspicuous. it is a variety of rounderable. When it first appears about the to the outside of the cherry, and in ordinary years. value for that district. For many cherry trees and other trees and letting all holds go, dropped to the He surely has a magnificent other districts it is of no parti- plants that produce globules of ground. This was usually about place, with a magnificent view, cular value unless it can be ship- sweet on the foliage, this fly seems the end of July as well as the end and the Slogan editor predicts

a limited way for the early mar- Then in 10 days to two weeks the inches at most. been found more prevalent and more successful east of the Cascade mountains than in the Willamette valley. Other individual

(Continued on page 9)

THIS WEEK'S SLOGAN

DID YOU KNOW that Salem is the "Cherry City of the World," and that she is entitled to this proud distinction by reason of the fact that she is the marketing place and headquarters of the best cherry country known-with a cherry industry already large but capable of indefinite expansion; that, with the proper pollenizer and with bees to carry the pollen, cherries in the Salem district are a sure crop; that they are a profitable crop, the industry inviting men of brains and brawn from the wide world; and that in sweet cherries this district has what amounts to a franchise; the only fly in the ointment being the lack of proper tariff protection, which there is a fight to have granted by congress?

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

Loganberries, October 1 Prunes, October 8 Dairying, October 15 Flax, October 22 Filberts, October 29 Walnuts, November 5 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, 1925 Corn, January 14 Celery, January 21 Spinach, Etc., January 28 Onions, Etc., February 4 Potatoes, Ftc., February 11 Bees, February 18 Poultry and Pet Stock, Feb. 25 City Beautiful, Etc., March 4 Great Cows, March 11 Paved Highways, March 18 Paved Highways, Head Lettuce, March 25 Silos, Etc., April J. Legumes, April 8 Asparagus, Etc., April 15 Grapes, Etc., April 22 Drug Garden, April 29

(With a few possible changes) | Sugar Beets, Sorghum, Etc., Lay 6 Water Powers, May 13 Irrigation, May 20 Mining, May 27 Land, Irrigation, Etc., June 3 Floriculture, June 10 Hops, Cabbage, Etc., June 17 Wholesaling and Jobbing,

June 24 Cucumbers, Etc., July 1 dogs, July 8 Goats, July 15 Schools, Ltc., 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, Septem-

ber 9 Woodworking, Etc., September Paper Mills, September 23.

(Back copies of the Thursthey edition of The Daily Oregon Statesman are ca nand. They are for sale at 10 cents each, hailed to any address. current copies 5 cents).

CHERRY FRUIT FLY, A BAD PES

The Rascal Lives Out of Sight for Ten Out of the Twelve Months of Its Life Cycle, But for a Short Part of the Two Months It Is Voracious and Fairly Easy of Destruction by Proper Vigilance

of the favored districts of the Wilhere that Oregon, England, Swed Dalles, Oregon, certain blocks of lamette valley discovered a few the eggs have batched into the here that Oregon, England, Swed Dalles, Oregon, certain blocks of lamette valley discovered a few maggets that begin at once to feed en, and France report the sour trees, like the Black Republican years ago that some of their maggets that begin at once to feed en, and France report the sour trees, like the Black Republican shelped to the fruit pulp, to tunnel dered as very doubtfut until bet. en. and France report the sour trees, like the Black Republicant choicest market fruit was so heavi-ter methods of control have been cherry to be self-sterile, partially and Norma, which seem to be very choicest market fruit was so heavi-through it, and to make rapid cherry to be self-sterile, partially and Norma, which seem to be very by infested with maggets, as to growth thereby self-sterile, or entirely self-sterile. true to type and trees from these have the appearance of trying to is some varieties will need cross in our experimental work. At the sympm off the semments, they were pollination while other varieties same time these individual trees most disagreeably surprised. On This devastation soon sets its are effective when planted alone, or groups of trees have set heavy recovering from the surprise they mark on the infested fruit, which newp lague might mean, and, lar- cay. The side of the fruit most valuable in top-working older gely in cooperation with rep- severely riddled turns brownish orchards where a large amount of resentatives of the Oregon Agri- and sinks away, and the content cultural college experiment station of the cherry skins indicates by entmologists, uncovered the unpleasant odors as well as by unique story of the cherry fruit appearances that all is not well. fly somewhat as follows:

insects fly much more, so that where the individual trees are loc- suddenly in the cherry orchards thus affected.

, the puncture no more than the prick of a pin point, no evidence

It is of course everlastingly too late to saivage any of the fruit

should be available to nurseries cherries are beginning to color up, was unknown the fruit was picked for making combinations of varie- is a small fly, two-thirds the size as usual and either used or marties necessary for successful pro- of the common housefly with keted. It was the latter that duction. This same work will be banded wings and abdomen , and called attention to the seriousness the season were able to produce carried on in at least one place in striped thorax. The bands are of the pest and eventually stimu- of Macleay, and is just over the presence of a great number of the Willamette valley the coming black, those on the wings having lated investigations that brought fence from the 224-acre Lambert somewhat the effect of pictures, out the leading facts in connec- cherry orchard that is being set The Black Republican was used Taose on the abdomen are quite tion with the pest and its habits, out by Salem parties. upon which they gnawed their way of cherries from his mature trees, to have nothing in particular to of the attack for that year. For that, when all his fruit and nut the Norma is a variety appar- do further than flit about on glad the worm grown old and fallen trees are in full bearing, he will ently true to type, as it was propa- wing while bathing in sunshine, even as the sere and yellow leaf, be "sitting on the world." gated at one time from a single feasting on foliage sweets and at once, while strength remained. tree and has a fair value as an other and more solid foods, and turned all its energies into bur- GOLF TOURNEY UNDER WAY early cherry. It can be used in enjoying its season of mating, rowing into the earth for a few

> ket. The Long-Stemmed Water- females beg'n to seek out the fast | And there the worm ended his house used at The Dallas in part coloring fruit of the sweet cherry own werm stage by transforming a \$10,000 open golf tournament came originally from Mr. Fergu- -- preferably the late Duke and into a small reddish brown pupa at Los Angeles January 8, and 9. proper way and with proper maplace near Salem. This is the Lambert though not averse to in which condition it remained, if The players are generally expecta larger fruited variety of the the Royal Ann and the Ping, or undisturbed by cultivation of the ed to contest in other meets Waterhouse, and did fairly good even seedlings and no-sweet cher- ground or by forage of fowl or while in the south, whither some work in cross pollination. Several ries and to punch tiny holes, in bird, until the bright days of sun- of them had already gone, types of the Centennial were also the skin for depositing their aggs. ny June, when again it emerged successful, but this variety has As the eggs are very small and as an adult, to fly to eat and to

> > SEND A COPY EAST

loaf in the sunshine and to make love and mate for a new orgy of egg laying. A Dread Enemy

It was thus found that this fly, close relative to the dread Mediterranian fruit fly, passes some ten months of his annual life under ground, and most of the other months hidden under the skin of the cherry either as an egg or a worm. In fact the only time and chance the growers have to get at the pest is the brief two weeks of of eating, mating and egg laying, If they do not get it then they have scant chance ever to get it

It happens that the fly is rather voracious on the occasion of its first appearance in public, eating and lapping u solids and sweets on the foliage of the trees it visits. By adding a little poison to this food and drink, the grower found that he is able to kill it off in large measure and greatly diminish the extent of damage to his cherry crop. The polson bait recommended by the experiment station and practised with good effect by numerous growers, is as

molasses or syrup—never honey— 2 quarts; water, 10 gallons.

Three applications are recommended and found best in practice. The first when the fruit fly first appears. usually about the time the Royal Anns begin to show good color, June 5 to 15, the sec ond ten days later and the third one week after the second. Two applications may prove enough if timed well and rains do not wash off the bait. Rains may even wash off the bait so seriously as make another application neces sary. It is generally best to make in application to close by trees of prune or other varieties that seem to attract the fly. If this is done. and if infestation does not result from flies from neighboring orchards, infestation is usually greatly lessened, sometimes en-

Not a great deal of the poison s needed, a pint to a quart being fruit if it can be sold. imple for average to large trees. The flies are very active and flit picking the fruit early in some about the upper surface of the season, in others he loses decid-

scratch outt he pupae and devour them, helps in control.

A Magnificent Place With a of lower quality fruit. Fine View in the Beautiful Waldo Hills

D. J. Miller was one of the men asked to write something for this

and said he was too busy to write, but he gave the information that he has 11 acres of cherries, Royal Anns and Lamberts. He has also this section, brown rot is an al- sour cherry is good only for limit-11 acres of prunes and 15 acres, vays present menace. The fre-

Mr. Miller's place is a mile east

SEATTLE, Dec. 22 .- Checking up today showed the Pacific north west contributing 15 players for or scab in apples. If everything against total losses of trees.

FIVE HURT IN WRECK PARIS, Dec. 22 .- (By Assoclated Press.)-Five persons were injured, one of them seriously when the Basil-Paris express was derailed today at Noisy-Le-Sec, in The scabby and wormy apple can article written for the Slogar the department of the Seine.

THE CHERRY INDUSTRY IN THE WILLAMETTE VALLEY, DOWN TO DATE

None Better Can Be Produced Any Place in the World, Says Prof. Schuster-For the General Commercial Cherry Grower, for This Valley, the Royal Ann Is the Standby—Growing of Such Canning Cherries a Very Suitable Form of Fruit Growing

Editor Statesman:

that small beginning has come a fresh cherries will be successful. great industry, for many of the but in many others it is very commercial varieties, headed by doubtful. the Bing and Lambert, were developed here. Seemingly the home for sweet cherries, this territory have the menace of brown rot. has seen new and better cherries When they have crops they can produced until now NONE BET- ship black cherries without fear TER CAN BE PRODUCED any of loss in transit and so are not place in the world.

with most varieties a difficulty Willamette valley growers to look confronts cherry growers from the with longing eyes on this trade. natural climatic conditions that but with present day conditions, may affect the fruit after it is it would seem the safe conservmature. This difficulty is the ative practice to stay away from danger of rains and wet weather future plantings of black cherries about the time the fruit is ripen- for fresh shipping. There is a ing. This may cause the fruit to considerable acreage of black chercrack open or else brown rot and ries now in Willamette valley, and molds may develop. With the danger of rains split-

ting the fruit; a cherry grower always is in a hurry to pick the ful, more plantings would seem inadvisable. . fruit. This green fruit is particularly noticeable in canned cherries, like the Royal Ann. While the quality of the pack is lowered dustry in the Willamette valley by this kind of fruit, the grower confined mainly to the Royal Ann. cannot be blamed for picking the While the prices for that variety

low plowing that turns up the soil to 26.3 per cent in weight over a market. some two or three inches deep the cherries that were picked at where the chickens and birds may the time many growers were rush- development for this valley and ing their cherries to the canneries, at present are paying well. A few tree, so it is a question whether future. to wait and run a chance of obbeing sure of a reduced tonnage

Black for Shipping Early

s present also in the black cherries, but with the added danger mous production of the east. It of brown rot when shipping them fresh. As yet no satisfactory only. method has been devised whereby these cherires can be successfully of activities for cherries. The canned, so if they are to be marketed, they must be shipped.

In shipping fresh cherries from quent rains and the general humid a very uncertain problem as yet. conditions are conductive to the spores which are ready for infection of the fruit as soon as conditions are right. Added to the trol by spraying. humid condition of this country | being ideal for the development of brown rot, are the humid condi- necessary and nearly all new tions of the refrigeratr car. While plantings going out are being prothe cool temperatures of the car brown rot to a certain extent, this by owners of many of the older trouble will work fast when the plantings. cool fruit is exposed to warm atmosphere and the fruit begins to

Theoretically, it is possible to spray for brown rot and hold it in control. It is on the same basis as spraying for codling moth is done at the proper time, in the mercial growers has not shown it same percentage of brown rot in cherries develops as does worms and scab in apples, it is doubtful if shipping cherries is practical. be picked out, but the infected

cherry goes in and with its decay Sweet cherries are at home in is bound to infect other sound the Willamette valley, being close- fruit in the same box. When it is ly associated with the development demonstrated that spraying for of horticulture in this section brown rot is 100 per cent efficient from the beginning. When Lewel- or nearly so, then can shipping of lyn brought his stock of nursery black cherries be considered as trees across the plains a few sweet | feasible from this valley. In some cherries were included. From seasons of little rainfall, shipping

and in other drier climates do not handicapped by this possibility. The prices received by these discolor and flavor is satisfactory tricts for black cherries cause

until it has been demonstrated over a period of years, that shipping of black cherries is success-

Royal Ann Standby

That leaves the sweet cherry indo not compare favorably with While the grower plays safe by those received for black cherries shipped fresh, yet growers of Royal Anns who are obtaining a leaves lapping up the sweets, so edly, for studies have shown that good crop are by no means going small droplets to the upper surface crease in size just before full small in comparison to some maturity. Cherries picked as they others, but still they are making Cultivation of the soil about the had attained a maturity that gave good profits. With the large numroots of the trees, especialy shal- good quality had gained from 22.2 ber of canneries there is assured

> Sour cherries are a more recent By this earliness of picking, they years ago there was a demand for were losing approximately 25 per these cherries and it was urged cent of the tonnage they might | that large plantings be made. Now have received. Of course in some the cannerymen are holding up years they may lose much more their hands in a helpless attitude than that if left longer on the at the prospect of the crop in the

With conditions as they are now taining better quality and more the market for the sour cherry weight weight or picking early and is confined to the west coast. As L soon as freight rates increase from the east so that prices for canued fruit are equal to that of the east-This same danger of cracking ern supply, there is little use of trying to compete with the enoris for this section a limited market

So in reality there are two lines Royal Ann for canning is a fairly safe project with returns equal or superior to many other fruits. The ed quantities. The black cherry is

The cherry maggot, which is gradually spreading with the later black cherries, is bound to be a factor. These are subject to con-

It is pretty generally concluded by growers that pollination is vided with pollenizers. This should obviate some of the losses incurred

Another source of heavy loss in the past has been from cherry gummosis which girdled and killed many of the trees. By using Mazzard seedlings for the trunk and scaffold limbs, the growers are now insuring themselves

From a study of returns recoived by some growers, it is shown terials, worms and scab can be that where cherry orchards are practically eliminated in apples. well located as to good soil, air However, the experience of com- and water drainage, and procided with proper pollination, growing to be possible, in all years. If the of canning cherries is a very suitable form of fruit growing.

> C. E. SCHUSTER. (The reader will note that the