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## SAN JOSE SCALE.

Excerpt From OAC Bulletin by Prof. A. B. Cordley

Perhaps the worst feature of an attack by San Jose scale is that, owing to its small size and inconspicuous color, it often remains unnoticed until the tree has been seriously injured or even killed. That the tree lacks vigor may be recognized, but the cause of its unthriftiness is overlooked. Yet it is not difficult to detect when one really looks for it. In the early stage of infestation a few scales may be found, usually clustered about the buds of th preceding 'season's growth, or even on two year old wood. Th mature scales are grayish in color, being usually but not always somewhat lighter than the bark to which they are so closely attached. The immature half-grown scales which may be found with the mature ones, are at the present time somewhat darker in color.

circular in shape, are approximately one-sixteenth inch in diameter and each is so mewhat raised in the center to form a rest of the scale. If this scale is carefully examined by means of a small magnifier several conraised with the point of a pin or mating the males die. knife there will be revealed a the insect itself.

though coated with fine ashcolored bran. If the thumbthe scales, a moist or oily appearbe revealed.

attack very few if any of the fruit of infested trees. scales will settle upon the leaves fruit, particularly of pears and several molted skins. apples, become much pitted, Each female of the over-winter distorted in shape, cracked and generation is capable under unmarketable.

similar spots are produced by at- season. Under supposedly favtacks of certain minute fungi. orable conditions single females Hence, such spots should not in of the later generations have been themselves be taken as proof of observed to produce approximatecan be determined definitely their estimates upon breeding civilized world. only by a carefully examination cage observations, Dr. Howard and the actual detection of the and Mr. Pergande have shown scale. The presence of such that is would be possible under blotches may well arouse sus- the most favorable conditions for picion of the presence of San the most favorable conditions for the presence of San Jose scale and should challenge a careful examinat on alike by growers, buyers and inspector; so also should the presence of dead and shriveled leaves upon the trees in mid-winter invite ex
the most favorable conditions for the best single handed talker does not trouble you now, don't think that it needs no attention. When it has not had much of a start is the time to check it. The slightest cough that it needs no attention. When it has not had much of a start is the time to check it. The slightest cough the most favorable conditions for the best single handed talker does not trouble you now, don't think that it needs no attention. When it has not had much of a start is the time to check it. The slightest cough that it needs no attention. When it has not had much of a start is the time to check it. The slightest cough that it needs no attention. When it has not had much of a start is the time to check it. The slightest cough that it needs no attention. When it has not had much of a start is the time to check it. The slightest cough that it needs no attention. When it has not had much of a start is the time to check it. The slightest cough that it needs no attention. When it has not had not h

amination for although their touching each other in all direc- BROWN OUT FOR GOVERNOR. presence is not proof of the pres- tions there would be enough of ence of the scale it is evidence them to cover approximately five Reform Sheriff Out on a Speeping that the vitality of the tree has acres of surface. It is almost been seriously impaired by some needless to add that in the incause and in regions where tense struggle for existence of San Jose scale is prevalent that organism with organism and cause in a vast majority of in- with climatic conditions such an stances is the scale.

ma be found upon infested trees.

of the immature scales usually this pest multiplies it is no longer perishes during the winter but at a surprise that careless work of the present writing, March 10, spraying fails to give satisfactory practically all are still alive resuls. A few temales here and We may expect, therefore, with there upon very small portion normal conditions for the re- of the tree which had not been mainder of the season, to witness reached by the spray may during of the people. wery decided increase in scale a single season completely reininfestation during the coming fest that tree, Satisfactory resummer.

proves to be nearly circular, work. The mature females are nearly yellow, sacklike with long, slender, bristle-like mouth parts. motionless, and permanently legitimate expenses. An examination of the male attached throughout life to the shows him to be more elongate branch on which it feeds, it is suffrage. and to possess the rudiments of often asked how is it the San slight protuberance or nipple legs, wings, eyes, antennae, etc. Jose scale can spread from tree to which is lighter in color than the The females live and die beneath tree, orchard to orchard, and their scales—never leaving them; even for larger distances? It is but in April the males molt for only during the first few hours the last time and soon thereafter of its existence that one of these centric circles may be observed emerge from under their scales little pests can emigrate, and obbetween the nipple and the out- as minute active creatures with servation has shown that even side edge, and if it be carefully fully developed wings. After then it is incapable by its own

miniature bright yellow object, favorable conditions, the females which it was born. But birds give birth to living young and and bees and other insects make On badly infested plants the may continue to produce for six good airships for the little young scales settle wherever weeks or longer. The young creatures, and no doubt many a there is room to insert a beak are minute, light orange yellow, young scale has crawled upon into the bark and as they in- active creatures with eyes, bristle- the foot of a bird or upon some crease in size they become much like mouth parts, two antennae or large insect and thereon voyaged crowded and overlapped and have feelers, and six legs. After to the distant realm of another the appearance of a gray scurvy emerging from under the protect-tree or orchard. No doubt also deposit on the bark. The natural ing scale of the parent each strong gusts of wind often tear color of the bark is obscured and wanders over the surface of bark, them loose from the bark on the infested plant appears as fruit or leaf until a suitable sit- which they are crawling and uation is found when the legs waft them to the branches of and antennae are folded beneath neighboring trees. These are nail or other object is rubbed the body, the bristle like beak is provisions of nature for disturbover this scurvy covering, there- slowly working through the out- ing the species. Through the by crushing the insects beneath er bark into the living tissue channels of trade they are carbeneath, from which it draws its ried long distances, even from ance is produced and numerous substance. At any time during continent to continent upon inscales will be overturned and the summer mouths hundreds of fested nursery stock, cuttings, many of the little vellow insects these little pests may be seen, etc., and probably to a lesser even with the unaided eye, as extent upon infested fruit. Buds During the early stages of au they crawl about over the bark or and scions carelessly taken from

or fruit. Later both may be at has attached itself to the bark they are placed or many infest an tacked. Upon the leaves, espec- the section of the scale has begun. entire block of trees in some ially of the prune and peach, the At first it consists only of a fluffy nursery and thence be distributyoung scales may be found on white mass of fine, waxy threads ed to many orchards. It is also bo h surfaces and more par- which for the first day or so of probable that many are carried ticularly clustered along the its existence cause the young about upon the hands and clothmidrib. Each scale produces a San Jose scale to appear as a ing of the men who prune the minute purple spot. Upon minute downy white speck on trees or pick the fruit or otherpurple prunes, red apples, etc., the bark. As these filaments wise work about the orchards. the scales appear only as minute become more abundant they By such means has the scale gray specks usually clustered become fused into a more and been brought from China, its about the cavities at either end, more compact scale and assume a native home, to San Jose, Calif., but upon the yellow fruits like yellowish color. Later the young whence in thirty-five years it pears, peaches, and the yellow scale-insect molts several times has spread to practically all the plums and apples, each scale pro- during its growth and the fully fruit-growing states in the Union duces a bright reddish discolor- developed scale is thus made up and to various foreign countries. ation. If badly intested, the of fused wax filaments and the

astonishing rate of multiplica-On the approach of winter on is not even aprp ximated scales of various ages and sizes order natural conditions Never-

less, when in A very low portion especially the enormous rapidity with which sults are obtained only by the rule. The male scales are not cir- most thorough work. Every cular but somewhat elongate. square inch of surface of trunk, If one removes one of the large limb, branches and twigs should and the repealing of the same if circular scales the little yellow be thoroughly covered. By far not the proper laws for the peobject thereby revealed is a the most common cause of un- ple. mature female. Under a moder- satisfactory results is the failure ate power of the microscope she of those who spray to do thorough money for campaign funds and

efforts of getting more than a few In May, possibly earlier under feet at most from the tree on an infested tree may transmit Even before the young insect the pest to the orchard in which

# A Mistaken Idea.

It is all a mistaken idea to suppose that favorable conditions of produc- one must be a Shakespearean student to ernment, it is a good mother, For the benefit of fruit inspec- ing approximately one hundred appreciate Shakespearean plays. This tors in particular, it should be young. In the course of but one is especially true when the parts are noted that the reddish discolor- month these reach maturity and represented by Mr. Frederick Warde. ations upon the yellow truits are the females begin to produce Every season new plays are brought jority of this kind of women in not always caused by San Jose another generation. There are out, but of the hundreds written each scale. Upon yellow apples and thus produced some four or five year, but few survive one brief season. particularly upon peaches very generations during the entire It is only the best that stands the only true test-the test of time. Plays of Hamlet and Julius Caesar have been annually delighting thousands for a century, and just as they have pleased in the past so they will go on pleasing infestation by the scale. This ly six hundred young. Basing as long as there is a theatre open in the

# Just Because.

Your cough is only in the throat and

Reform Ticket.

(Extract from Baker City Herald, February 2, 1902)

Harvey C. Brown, for the past 4 years sheriff of Baker county, announces himself as a candidate for the nomination of governor on the republican ticket, subject to the voters and not the machine of the party, at the primaries on April 20, 1906.

His platform is as follows:

The primary law and the election of all officers by direct vote

Abolishment of all machines and bosses, and let the people

Enforcement of all laws, city, county, state and United States

The abolishment of the use of purposes by any candidate, fac-Since the female scale is tion or corporation, only as actual

And last, but not least, woman

HARVEY BROWN'S STATEMENT.

I believe in our new primary law because it gives the people a chance to select whom they want; they are not compelled now to take what the old machine and the bosses put up for them at the old conventions.

I am a Roosevelt republican, who, in my opinion, is one man that is strictly honest, and one that money does not tempt, and I think it time that the republicans of Oregon were turning down the old machine and bosses and getting in line with the people, because if they do not they will turn them all down, as they have evidently done in Portland, and get men from another party who will do as the people want done. The use of money for compaign purposes I am strictly opposed to, only as legitimate expenses. Because people for the right don't put up money for that purpose, but corporations, wholesalers and retailers in legitimate business and gamblers will put up money to no limit to hold on to and further their interests in the city, county, state and United States. And if they don't put up the the money, and a candidate does, he generally, as past records wil show, by grafting or using public money, will go wrong al ways to the detriment of the party and the people at large. And here I want to urge the republican party in every county to nominate the right kind of men for senators and representa-

general election. Now, last of all, but not least, woman suffrage. I believe in it because if a mother is capable of raising a boy from the cradle to manhood, she is also capable of voting and helping to make laws that help govern the boys after they are men. And if any one in the world has any influence over men for the betterment of mankind and good govwife, daughter, sister or sweetheart, and we will all have to admit there is a very large maour glorious old Oregon, my na-

tives to be voted on at the next

Now as for my record, it is here in Baker county, from childhood. And as to my record as sheriff, I have done the best I could in the people under the circumstances, and can say I am onman that is just as free today a I was the day I went in office and I will admit that I am no orator or public speaker, but on of the best single handed talker-

experience, and is the outcome of local news.



THERE IS A GIRL IN THE CASE. Perhaps it's your intended, or maybe a daughter. Either way if the watch is one I sold it's a good one.

### WATCHES

that keep correct time are the kind I deal in. It makes no difference if the timepiece I sell you is a silver-cased one or a ewelled gold-cased chronometer; they both bear my warrantee. I sell at a low margin and that increases my sales. My goods and prices are both satisfactory.

## Albert J. Metzger WATCHMAKER

Occidental Building, - - - Corvallis

# SPENCER'S Hair Invigorator

**And Dandruff Eradicator** 



Price, - Fifty Cents

Manufactured by

The Vegetable Compound Company Corvallis, Oregon

# FIGURE IT

Figure any way you will. The man or woman who makes a purchase at our store actually saves money. We do not claim that all our goods are sold at cost, but we do claim that our customers are not deceived-That our goods are sold only at a profit consistent with the times, and that marking some goods AWAY UP and some AWAY DOWN is not allowed in our store. A SQUARE DEAL to everybody is

Before commencing house cleaning drop in-look over our prices (all in plain figures) and see what we have in

FURNITURE, CARPETS. WALL PAPER, MATTING, LINOLEUM, ETC.

LARGE LINE OF COUCHES.

GRANITE and

TINWARE

STOVES and RANGES

NEW LINE OF GO-CARTS.

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We are making a specialty in the form of the latest and most up-to-date eye glass mounting, ever offered to the public. This eye glass mourting is "The Heard" guaranteed to stay on where others absolutely fail.

If you care to investigate call at my store any time.

E.W. S. PRATT, Jeweler and Optician.

# SEEING IS BELIEVING

Then come in and see my line of Sporting Goods and be convinced that it is the best and most complete line ever brought to your city, consisting of Guns and Ammunition, Fishing Tackle, Base-ball Goods, Bicycles and Sundries, Pocket Knives, Razors, Sewing Machine Supplies, etc. Gasoline and Dry Cells for sale. Agent for the Olds Gasoline Engines and Automobiles.

Guns and Bicycles For Rent. First-class Repair Shop.

M. M. LONG,

CORVALLIS,

OREGON.



Trial Solicited. J. F. TYLER.

We Fix Everything Work Guaranteed. New Line of Bicycles. Columbias and Ramblers.

my going into office as Sheriff of Baker county determined to find out the reason why our laws were ot inforced, and why a majority

.f all officers go wrong.

One of the people. HARVEY K. BROWN.

For Infants and Children. The Kind You Have Always Bought Signature of

Take THE GAZETTE for all the

CASTORIA