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PERENNIAL CANKER OF APPLE TREES

(Continued from last week)
The fungus causing perennial canker is typical of those species grouped under the form-genera, Gloeosporium and Myxosporium. Since the organism concerned in this bulletin causes both the canker of the bark and the rot of the fruit of apple, sporulating upon both, and since no perfect spore stage has been discovered, we have chosen to include it in the form-genera, Gloeosporium, rather than Myxosporium, to which are referred only those species inhabiting bark. Since the species is evidently undescribed we propose the name, Gloeosporium perennans sp. nov. Several differences between perennial canker and apple-tree anthracnose have been pointed out in preceding paragraphs but it perhaps would be well to reiterate them here in rather concise statements. In their early stages the two cankers look very much alike. The following are the distinctions which may be made:
1. The perennial canker is a wound parasite infecting through wounds of various causes such as pruning cuts, or any other mechanical injury to the bark, lesions caused by other cankers such as anthracnose and European canker, winter injured bark and the

lesions produced by such insects as woolly aphid. On the other hand, anthracnose is a very much more virulent parasite, usually having its incipient infections through uninjured bark.
2. The perennial canker develops year after year by the spread of the fungus in the healthy tissues surrounding the canker of the previous season while anthracnose does not spread farther than the limits of the first year's growth, although the fungus lives in the dead tissues of a canker through the second year when the spores of the perfect stage are formed and discharged.
3. The conidiospores in the two organisms are distinct, those of anthracnose having a characteristic curve or hook, while those of the perennial canker organism are generally ellipsoid although variable in shape and size.
4. The two organisms react to certain culture media in distinct ways. The chief distinction in this respect, so far discovered by us, is the more active diastatic power of the anthracnose organism.
On account of the nature of the injury produced by this disease the losses due to it are difficult to estimate. In many large orchards of the Hood River valley, however, the disease has done extremely serious damage. Branches from the small one-year-old twigs up to scaffold branches four to six inches in diameter may be girdled because of the frequency of coalescing cankers. In some of the orchards where infection

is at its worst more than 300 cankers were counted on a tree not more than 15 years old. The cankers vary in size according to their age and the size of the branch affected. On healthy branches cankers may be found up to 10 inches in length but in case of infection following winter injury affected bark may extend for considerable lengths. Because of the perennial nature of the disease the cankers must be thoroughly cleaned out by cutting out the individual cankers or they will continue to become an increasing source of infection. Some growers in districts where perennial canker has become widespread declare that it is useless to attempt to clean up an orchard where cankers are so frequent on trees. Perhaps this is an extreme attitude, nevertheless the wholesale removal of cankers from large trees where scores of cankers occur is an expensive and laborious operation, providing the surgical methods are done adequately and carefully enough to effect sure eradication. And it would seem that the perennial nature of the disease would make this process of a clean-up the only feasible one.
There appears to be the possibility of a definite relationship between the woolly aphid to infection and growth of the canker. Fully 90 per cent of the cankers examined have been heavily infested by this insect. Old, sound, pruning wounds on infected trees are, so far as observed, always free of the aphids or galls caused by them. Water

sprouts infested with aphids usually die as a result of the presence of perennial canker while no such infection or resulting effect takes place on aphid-free sprouts. Further study may show that woolly aphids have nothing to do with the advance of the disease, but as a preliminary precautionary measure, control of the aphids is suggested. Exposed woolly aphids can be controlled by the application of Black Leaf 40, 1 part to 1,000 parts of water, plus calcium caseinate spreader, 2 parts to 100 parts of water. Preferably this should be applied as soon as the insects begin to appear on the shoots. This period in their development is usually reached after the middle of July.
The liberal use of bordeaux mixture may assist somewhat in checking the advance of the disease because those orchards which have been well sprayed, particularly with the bordeaux-oil combination, are in better shape than those receiving no spray. However, satisfactory control of perennial canker has not been obtained in tests being carried on at Hood River for the control of anthracnose (Neofabraea malicorticis). These tests have involved spring, summer and fall application of bordeaux mixture and have indicated that measures other than the application of this fungicide will be necessary if control is to be obtained. For the present, at least until the control of the disease is better understood, one thorough application

of bordeaux mixture is advised, preferably the spring bordeaux-oil combination. The 6-6-50 bordeaux formula, to which should be added a good 6 to 8 per cent oil spray, is suggested as an early pre-pink application. This also controls the leaf-roller. Surgery should also be resorted to, particularly in the case of large cankers or cankers located on the larger branches. Branches with many cankers and those practically girdled should be removed as a whole. In cases where individual cankers are to be removed, the discolored, affected bark should be cut well back into the healthy tissue. Probably this can be done best during early summer as cutting at this time will permit the development of a maximum callus. A good, straight-bladed knife, such as that employed for budding, has been found suitable for cutting out cankers. This should be kept sharp, as a clean, perpendicular cut into healthy bark is desirable. After a canker is well cleaned, the wood should be coated by an antiseptic. For such purposes we have been having good success with a tree paint made up in the following manner. Into any desirable amount of a bordeaux powder, such as the Sherwin-Williams Fungicide, slowly stir small amounts of raw linseed-oil until a rather thick, smooth paint is formed. This may be applied with a paint brush. All pruning cuts or other wounds of any size should be coated for these are all sources of infection. The Oregon Experiment Station is now working to ascertain the most practical methods of eradication and prevention, and any progress will be announced as soon as possible.

LEGION NOTES

Last month's meeting at Parkdale was a rip-roaring success. About 70 legionnaires attended the meeting. After the meeting, the Parkdale boys put on a noble dance and feed in the Odd Fellows hall. Legionnaires and their ladies enjoyed themselves until late. If there had been any more present at the dance, they would have had to move the wall out. And then they gave us all we could eat. If you missed that meeting you missed a real treat. Harry Hettinger and his Parkdale gang are to be highly commended, and believe me, none of us will miss it next year. R. J. McIsaac donated the use of his hall for which we are very thankful.
Green and white have been adopted by the post as official colors. There was also considerable discussion as to the adoption by the post of a distinctive uniform for its members. The suggestion was made that the post adopt green and white chaparral, the same as worn by the drum corps; also it was suggested that the post adopt a green vest. This was accused of being Irish propaganda.
Speaking of November 11, as some of you know that is Armistice day. Those of you who attended the celebration last year have a pretty good idea of what we are planning for this year. There will be a football game between Hood River and Camas, Wash. There will be a banquet in the evening followed by a dance. If you have any real hot suggestions, make them to Banks Mortimer. There will probably be some sort of exercises in the morning, to be announced later.
Ray Lee left Saturday to attend the national convention at Omaha. It is to be decided at Omaha whether the 1927 convention will be held in Paris. Wouldn't that be hard to take?
Bill Allyn, former post adjutant and secretary of the Hood River Chamber of Commerce, and still a member of this post, now located in Seattle, was here for a few days this month. Bill says the old town looks pretty good.
Leonard Howard, who is supervisor of the Oregon-Washington Telephone Co. at Sunnyside, Wash., was here over a week end. Leonard says he likes his job, but wishes he was nearer Hood River.
Ben Davis has been transferred to Stevenson, Wash., but is still with us in spirit, sometimes in person. He plans on retaining his position as bass drummer in the drum corps.
Jesse Thomas has moved to Gresham, where he is working for the 20th Century store.
A free safety deposit box is provided for legionnaires who wish to preserve their bonus papers and discharges, at the Butler bank. Better take advantage of this.
Wanted—Anyone who can take bass or baritone parts in a quartet. We need one, and F. D. Q.

STAR SALES LEAD IN MID-COLUMBIA

Rife & Elliott, local distributors of Star and Durant automobiles, made a state record for September sales. The average percentage of Star sales for the state was 19. In Hood River county the percentage of Star sales reached 52. Sales of light cars for all the state were as follows: Fords, 781; Chevrolet, 525; Overlands, 88, and Stars, 327. In Hood River county the sales were: Fords, 7; Chevrolet, 5; Overlands, 2, and Stars, 15.
The figures were secured from the secretary of state showing Oregon motor registrations.
"We feel pretty good over our showing," said Mr. Rife Monday, "and we are planning on putting more Stars on the roads in the mid-Columbia."

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Below are the names of a few of his many satisfied patients in Oregon:
Rose J. Aplin, Carson, Wash., nerve trouble.
Mrs. Otto Will, Jefferson, varicose ulcer, leg.
M. P. Christianson, Albany, bladder trouble.
Mrs. M. A. Ewan, Coquille, stomach trouble.
Robert Jiglnski, Seilo, stomach and heart trouble.
John Roth, Albany, adenoids and tonsils.
Mrs. M. I. Olsen, Portland, appendicitis.
Remember the above date, that consultation on this trip will be free and that his treatment is different.
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(INCORPORATED)

Tenoritis

Gone are the days, "them happy days,"
The days of old Lang Syne,
When barbers used to have a heart
And shaved you for a dime.
But since the world's been made too
safe
For Democrats and things,
The price we pay for cuts and shaves
Would ransom seven kings.
They say they have to live and eat,
That beans have hit the sky,
That onions too, are going up,
And so is rock and rye.
The barbers now are spotted or balled,
The bacon and the rind,
Don't give a dam for any man,
While dandling with their hair.
I get a shave, they tweak my nose,
And point it to 'rds my eye,
Then chuckle in bum ecstasy
And lather, pull, and pry.
The barbers sure bring home the goods,
The bacon and the rind,
Their tongues broadcast from Twaddieville,
Their message is sublime.
They say, "Your hair is full of grit,
Of cobblestones, and lime;
For fifty plus we 'poo with ards,
And make your halo shine.
"What hair you have is falling out,
The darn stuff's full of ails,
Why don't you try our hollywood,
Well scrambled in with nails?
"Your buckskin face resembles Tut's,
With crinkled skitter-ow;
A hot massage with aito rags
Would be the cat's eyebrow."
If Brick would start a whisker fad,
And raise red silk galore,
'Twould be an omen to the cut
Of lather, blade, and gore.
Ben Shorn.

Phone Business Stimulated

During apple harvest Hood River's telephone exchange is materially increased. Superintendent Marshall of the Oregon-Washington Telephone Co. stated Friday that during the past week an approximate 60 temporary telephones had been installed in apple packing plants in the valley. Harvest time brings about an overload of telephone calls. Daily operators handle about 10,000 calls as compared with 6,000 normally.
Cash paid for old cars. H.-R. Auto Wreckers.