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COODLING MOTH CONTROLLED BY VOLCK

The success of controlling codling moth with Volck, the light, white summer oil of the California Spray-Chemical Co., is recited in a letter recently written Dr. Rosen, of the spray company's Yakima experiment station, by A. L. Dever, a grower of Grandview, Wash. The letter follows:

You will recall plans of the writer for testing Volck as a method of control for codling moth. The idea being of finding an economical and practical method of controlling the pest and at the same time eliminate all arsenical content in cover sprays. I must say that results to date are very gratifying, and should they continue as they are there should be no need for any grower to worry over arsenical residue.

With reference to the details of the program and method of application I should say: The test plot consists of an old Splinterburg orchard, of which about two acres (120 trees) are being sprayed with Volck, with and without spreader and in strengths varying from 1/4 to 1 1/2, the same trees being sprayed with the same mixture at each application. The balance of the orchard is being sprayed with a mixture of three pounds of arsenate of lead and one pound of spreader to each 100 gallons of water. I might remark that the trees are about 17 years old and have not been pruned since 1925, although half of each one has been cut away and the stump grafted to Delicious, in 1925. However, it makes an excellent opportunity for study as to the relative merits of the two methods of control, and the thickness of the trees only adds to the laudability of the oil method, if it is successful to a greater degree than the lead.

Before making the first application of Volck following a calyx spray of lead, I went over the plot in detail locating and marking codling moth eggs, at different places on different trees. These eggs were in varying stages of development, ranging from trees to well pronounced green rings. Volck was first applied on May 7th and all check eggs closely watched till May 15th when the "last one" was entirely dead. A close examination both in tops and lower limbs of six trees (all sprayed) on May 15th showed many dead eggs (other than check eggs), and one live worm, and one sting. A few eggs were found at this time, the exact number of which it was impossible to determine, presumably they were laid after the oil had been applied.

Following the appearance of a considerable quantity of fresh eggs and the locating of some in an advanced stage of development (one day before hatching) on May 17th Volck was again applied on May 18th. A further examination on May 19th proved very encouraging, in that the worms in these eggs farther advanced had died. Immediately following the examination of the check eggs on the 19th, a thorough inspection was made of 14 oil-sprayed trees, the results being two live worms and two stings on one tree, the balance of the trees containing only some eggs having a good oil coating. I might remark that the tree top inspection in each instance was made with a ladder, the same method being used in examining the lead-sprayed tract, the results of which I will speak of at the end of this report.

One more examination of the Volck and lead check plot was made by the writer in company with Roy Keller on May 20th. At this time 10 acres (all sprayed) were examined from the ground only, the result being one sting, and some eggs in varying stages of development.

A check of the plot on May 15th to which were applied arsenate of lead and spreader, showed on two trees six live worms, some stings, and a noticeably greater quantity of new eggs. The second inspection of this plot, on May 18th from five trees examined were taken one live worm, one sting, three stings, and three live worms inside the skin. These were found on three trees, the other two being clean. A third examination on May 20th at which Mr. Keller was present, resulted in finding on five trees from the ground only, 15 stings, two live worms, and numerous eggs varying from fresh to well-formed green rings.

Among other Volck tests I have conducted this spring are several laboratory ones tending to show or indicate the value of the oil as an insecticide as applied to codling moth larvae. It has been my privilege to make these tests under a high powered microscope. For the first test a 2% solution of Volck was applied to a piece of dry apple and a two- or three-day-old worm was placed on top of the oil coating. This worm lived only 20 minutes. The second test consisted of the application of a 1 1/2% solution to a piece of dry apple upon which was placed one week-old worm and one two-day-old one. The larger worm lived 14 hours, and the smaller one eight hours, neither one of them making any attempt to enter the apple.

One test was particularly interesting in that it gave promise of proving one point of which there had been considerable discussion; namely, as to whether or not any kind would be effective against an egg in the last stages of development. I was fortunate enough to find an egg developed to the extent that the worm had begun to move inside the shell. The blood circulation was plainly visible at 9 o'clock p. m., when a 1 1/2% solution of Volck was applied. This was still visible at midnight, but at 3:30 a. m. had decreased till it was only barely perceptible and at 7 a. m. had ceased entirely and the body had begun to shrink. I was able to make the same test under actual field conditions a few days later with similar results. This would seem to indicate that 1 1/2% is effective as an ovicide and an insecticide at any stage from fresh eggs to hatched larvae.

One point I wish to stress and make very clear is that the degree of control to be gained is based not so much on whether the application is 1% or 1 1/2% in the tank, but upon the amount of solution that is applied to the fruit. Special Note: My last examination, concluded this date, May 23rd, seems to offer some basis from which to draw conclusions of a definite nature. Two thousand four hundred ninety-eight (2,498) apples were gathered from behind the thinning crew on the Volck-sprayed plot and upon examination I found thirty-seven (37) dead eggs, two hatched worms dead, three stings and four worms. Three of these four worms were found on one limb, which would indicate that this limb had been missed in the spraying.

As a comparison, from one hundred ten (110) apples gathered from these arsenate of lead sprayed trees I found one worm, one sting, one egg, one hatched, two live worms in the apples, and numerous stings.

GRAND JURY URGES BETTER COURT HOUSE

In a report to Judge Wilson the grand jury, in session here Monday, urged that plans be taken looking to the construction of a more adequate courthouse. The jury, on a recommendation of District Attorney Baker, was held over for another term, the first time such action has been taken in this county. The report of the grand jury was as follows:

In the Circuit Court of the State of Oregon for Hood River County.

Grand Jury's Report

To the Honorable Fred W. Wilson, Judge of the Above Named Court:

We, the grand jury, duly impaneled and sworn to act in that capacity for the March term of court, 1926, beg leave to report as follows:

That we tried to carry out the instructions of the Court in performing our duties as such jury, and in accordance with such instructions we visited the several county officers, viz: Treasurer, sheriff and clerk, and examined the books and accounts of each of said county officers, and so far as we were able to determine we find them all in good condition, and that the several officers were trying to do their several duties and complying with the laws of the state, and we believe that the several county officers are in the hands of competent officials and we do commend them for their efforts.

We had before us Honorable H. L. Hasbrouck, county judge, and made enquiries of him concerning the care of the poor of the county, and we find that the unfortunate are well cared for, at least, as good as may be under the circumstances, for the county having no poor farm the indigents must be helped and cared for through persons willing to care for them, and we find that expenditures in that direction have been normal, and we commend the manner and method adopted and used by the county court in that direction.

We have also gone through the vaults of the county clerk and the county sheriff, where the books of the several officials are kept, and we find these vaults very much crowded indeed. Moreover, it is doubtful if said vaults will protect the county records in case of a serious fire, especially if such fire should occur in the winter season when a deep snow is on the ground, as sometimes occurs, when the firemen would not be able to get to the building in time to quench the fire before great damage is done. We are of the opinion that it is high time that the taxpayers of this county look forward to and begin the necessary preparations for the building of an adequate house for county purposes, and we recommend that in the near future a new court house be built.

We examined 10 witnesses at the former session of our body, and returned one indictment, and after making the examinations of the county officials above referred to, we adjourned to meet again on call.

And now at this called session we have examined 10 witnesses, and herewith return four indictments into court and one true bill.

We have now finished our labor, as we see it, and respectfully ask that we may be allowed to adjourn.

Respectfully submitted,
W. H. McGuire, foreman,
E. S. Colby,
Ralph Johnson,
John Stranahan,
Wm. Irwin,
C. C. Crew, Grand Jury.

Hood River Chewing Gum
The most of the folk of Hood River are being chewing gum this week. Ben H. Rowie, Washington advertising representative of the William Wrigley Co., piloting a big truck, loaded with gum, has visited the city. He has placed window displays of chewing gum in grocery and drug stores.

Mr. Rowie said that it was his desire to present every man, woman and child in town with a sample of Wrigley's chewing gum before he left.

F. T. Struck to Deliver Address
F. T. Struck, son of L. Struck, a West Side pioneer who formerly owned the orchard upon now owned by W. E. Witham, will deliver an address on June 29 at the annual National Educational association convention at Philadelphia. Mr. Struck is now director of the bureau of vocational education of the state department of public instruction at Harrisburg, Pa.

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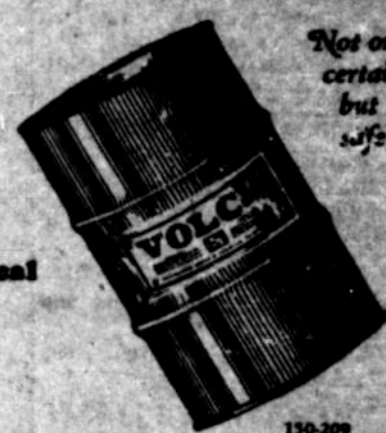
Arsenic-free Apples

The market for fruit too heavily sprayed with arsenic poisons is rapidly shrinking. British markets are entirely closed to its importation and local Boards of Health are daily becoming more exacting.

VOLCK KILLS CODLING MOTH

Use 1 1/2% VOLCK alone for late season spraying. VOLCK is non-poisonous and the fruit is edible immediately after spraying. This highly effective contact spray covers the entire sprayed surface with a uniform film that kills the eggs and young worms, prevents "stings" and acts as a repellent over an extended period in preventing the moths from laying eggs. VOLCK also controls San Jose Scale and many other insect pests. And besides being safe for fruit and foliage, even in mid-summer, it is easy and pleasant to use.

For extra fancy specimens of fruit that will command a premium in any market, spray your trees with VOLCK.



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Minors Not City Marshal occupying such official capacity. Frank Munroe is a deputy state traffic officer and a deputy game warden. H. L. Hasbrouck, optometrist.

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