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Alum baking powders are sold to consumers at from 10 cents a pound to 25 ounces for 25 cents, or 25 cents a pound, and when not branded may generally be distinguished by their price.

FRUIT GROWERS FORM SOCIETY

(Continued from page 1.)

One thing our grower must bear in mind is that the marketing of the Hood River apple crop is a different proposition today from what it was

strawberries between the trees which had notted him 850 an acre for the first three years, when they had been removed. At the end of that time be removed. At the end of that time be cut back the side limbs and main branches and kept cutting them back until the tree had plenty of wood, many of his trees measuring 21 inches in circumference and some of them 24. He believed, he said, in building

23. He believed, he said, in building up a stout tree so that when it came into its full bearing maturity it would be able to support the fruit without the aid of props. That he had never had to use a prop under his trees and didn't expect to. As a result the trees had not borne as many apples as trees in other orchards but the proposition today from what it was ten years ago. Today we have an ar-ticle that has a standing with the trade-namely, our Newtowns and Spitzenbergs. It has a certain fixed value on the market, and our system of business should be such that our fruit should be sold merely on its own merits. Its value should be deter-mined only by the law of supply and demand and we sholnd co-operate, so that we will never be at the merey of the juggling of buyers and commission men. of the m

> THE CODLIN MOTH. Introduction. I wish to say, gentlemen, that I do not claim this to be an entirely orig-inal talk, but on the other hand it is

more a collaboration principally from Simpson, Milander, Cordiey and Ball.

In nearly every instance their words best express the idea. Furthermore,

I wish to state that I do not consider

myself well enough informed to advise

one-half pounds, for the third one and one-half to two pounds, and the fol-lowing sprays one to one and one-half pounds for 50 galions of water. Now I am up against the real thing, when and how to spray. As Prof. E. D. Ball of the experiment station, Lo-gan, Utah, has spent seven years on this work. I m going to tell what you he said, because he has given the best taik, backed up by statistics, that i have ever heard. First let me tell you he selected the wormiest orchard in Utah, and made his comparisons on the same variety, with about the same

the same variety, with about the same number of apples on .. tree, because comparisons a ust be made under sim-

ilar conditions. Prof. Ball said substantially as fol-

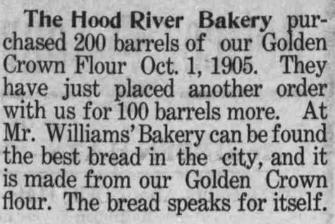
In Utah unsprayed orchards have averaged a worm to each apple. Many problems remain to be solved before we can say with certainty just what is the best method of controling the codlin moth under the varied con-ditions in which it is found.

Bulletin No. 171, which can be secured of the Department of Agriculture at Washington, free of charge; "The Codiin Moth" by C. B. Simpson, Di-vision of Entomology, Department of Agriculture, Washington, D.C., which Biennial Report of our State Board of Horticulture, cf which the Hon, E. L. Smith is president, and of whom a copy can be obtained by asking for it. And, by the way, nearly every subject discussed here today is ably treated in this report, and if you neighbor to get it and study it. Built and September, or that the two issues of the Department of Agriculture, cf which the Hon, E. L. Smith is president, and of whom as copy can be obtained by asking for it. And, by the way, nearly every subject discussed here today is ably treated in this report, and if you have it not, leit me suggest that it is your outy to yourself as well as your neighbor to get it and study it. <text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text>

will be forced straight into the calyx cap. In conclusion Prof. Ball said he was not offering a method for spraying in humid regions, as he was not fa-miliar with them; that he was not fa-miliar with them; that he was not fa-to out spray would be June 1st; his third June 14th, and 40 days later for the fourth spray would be June 1st; his third June 14th, and 40 days later for the fourth spray would be June 1st; his third June 14th, and 40 days later for the fourth spray would be June 1st; his third June 14th, and 40 days later for the fourth spray would be June 1st; his third June 14th, and 40 days later for the fourth spray would be June 1st; his third June 14th, and 40 days later for the better, but he used it because he fourd see it better and in an ard wocate two sprayings or any other number; but what he did advocate was that the early sprays be applied necording to the method he gave, snd if it was done be believed he would be able to get on with a less number i of late sprays and under favorable conditions possibly without any late sprays for the second brood.

early part of September. In spraying for the first brood do not use a mist nozzle, but one that throws a fine stream, as the object is The first two sprays a e the most important, and if applied properly at the right time kill by for the greater number of worms. Ball applies the first spray just after the blossome have fallen, but in Hood River we applied to force the poison way down into the calyx, and a fine stream and force is necessary to put it there. In spray-ing for later broods use a mist nozzle, as the object is to coat the apple. A

last year just before all the blossoms had fallen. It remains to be deter-mined which time is preferable. It Y nozzle is best at all times. Be careful in spraying not to get too much drip in spraying for second brood, as drops in forming are apt to is possible that by applying just be-fore may accessitate a third early what is the best method of controling the collin moth under the varied con-ditions in which it is found. The Utah station concerned itself with three questions: First, what is the relative value of early and late sprays? Becond, what is the relative of each of these early sprays! Third, how long does the value of words, do the early sprays kill any worms in the second brood?





This is the age of specialism; that This is the ago of specialism; that being the case, let us concentrate our efforts to three or four of the best va-rieties of apples that we can raise, and let us co-operate in the marketing of the same, so as to avoid competition would currently a special set of the same and the same are as the same

In answer to a question from Leslie Batler why he did not mention Wine-saps, Mr. Franz said that this variety of apple in Hood River valley usually grew one-third four tier, one-third four and a half tier and one-third five tier, and for that reason it was diff-cult to get a good price for them. In answer to another question as to what he thought was the best soil to produce a high color in Spitzenbergs, Mr. Franz stated that experience had shown that soll where oak trees had grown and a location that had a southern exposure and plenty of sun-light had been found to be best.

"Pruning" was the topic selected for D. H. Sears, and he advised grow-ing a full tree with as many inside limbs as possible, thereby causing the trees to bear full and heavy and keeping out the sunlight. This, he thought, produced a far better commercial tree than any other way. F. W. Angus talked on "Observa-

tions of Our Pack and Suggestions." Mr. Angus told how the present method of packing apples could be improved on, although he said that the Hood River pack was the best that the Hood River pack was the best that had been put in use. He advocated more care in packing apples in the future

future. Appolination was J. T. Porter's theme, and results of experiments he said were to the effect that polliniza-tion was providence of the state that of the 2000 trees or plane but 100 eres or plane but 100 eres 2000 trees 2000 tion was necessary to all fruit trees, although the pomological department of the Government beld to the con-trary. He told what he thought were the best trees for this purpose for Newtowns and Spitzenbergs, but stated that there was a great deal to be learned on the subject and that he

was still experimenting. C. H. Sproat endorsed the co-ope rative plan for marketing fruit estabto market the fruit individually. Ray Brock explained the method of

control of the second s

anthragnose, and said that the most effective remedy that had been found Times affected with antiragnose which has used in demonstrating his talk and showed how the disease manifested itself by finally encircling a limb and destroying it.

destroying it. J. L. Carter told all about the dead-J. L. Carter told all about the dead-J. L. Carter told all about the dead-ly effect of fungus, saying that it was more dangerous than San Jose Scale or anthragnose and more difficult to contend with. He stated that the Bor-damy mixture was the best prevent-damy mixture was the best preventcontend with. He stated that the host deaux mixture was the best prevent-ative of the disease and also the best from the side, he seeks a place to spin from the side, he seeks a place to spin

remedy for it. The last topic on the program was "Thinning." B. F. Tucker was asked to speak on this subject and made one to speak on this subject and made one to speak on this subject and made one of the most interesting talks of the meeting. Mr. Tucker gave a descrip-tion of how he had set out his or-chard, saying that it was a small one that it was a small one chard, saying that it was a small one or worms change into pupae in about

and that he had planted six rows of along this line I refer you to Farmers

periment this was done on 64 trees as eraging 3500 apples each. For this work it was also necessary to separate the damage of the first brood of worms from the second, which was done by first spray was applied just before the blossoms had fallen, and the second ten days later and the third fifteen days after that.

Results of the First Brood.

you, nor do I wish to pursuade you to adopt any of these methods. I am simply going to tell you, as I remem-ber them, the opinions, observations and conclusions of intelligent work-Trees that had only the third spray ere as wormy as the unsprayed trees. Trees that had only the second spray Trees that had only the second spray had 15 wormy apples, or 79 per cent worms killed. Trees that had only the first spray had 8 wormy apples, or 89 per cent of worms killed. Trees that had the first two sprays had 4 wormy apples, or 94 per cent of worms killed. Trees with three sprays had ers on the codlin moth that you may have an opportunity to discuss and consider them. If I have erred in any particular or omitted any important feature, there are many experi-enced growers present who are better posted than I and with better mem-pries, and I beg of them to correct me est harm be done. only 3 wormy apples, or 96 per cent of worms killed. These results are bet-Again, I wish to preface my remarks ter shown in the following table y saying I do not propose to give on informaton founded solely on my

on my every- et and	sprayed.	apples.	killed.	ce
dl our			1.000	1.16
ie last		15	57	- 7
value		8 .	64	8
simply		4	68	. 9
on my		3	69	- 9
1903 1	From t	hasa roundt		that

place, but 100 are bearing. In 1903 1 bad \$18,50 worth of good apples; in 1904, \$386; in 1905, \$800, and of the 400 baxes this year there were only 19 boxes less than four tier and no five killed 1.9 of the worms. Both are val-tier and only 5% per cent loss from all nable, the first is double the value of the second when applied alone, but the first and second when both are ap-plied killed 17-18 of the worms, or b per cent of the first brood. When three sprays were applied a slightly better secult man obtained

Stages.

The life of the codlin moth is divided into four distinct stages-the egg, the worm, the pupa and the moth. lished here and urged the organiza-tion of unions as the best plan to se-cure this result. That any kind of an organization was better than trying to market the fruit individually. Ray Ench explained the method of better result was obtained. Where the Worms Were Killed. Examination showed where the sec nd spray was applied, of 15 apples only 5 were wormy in the ca-lyx ; where the first spray was applied. Ray Brock explained the method of manufacturing pure culture cider as carried on in Germany with the use of yeast taken from the fermentation of grapes used for making wine. Some of the cider thus made was on exhibition and was pronounced very apple was wormy in the calyx. Con sequently it is seen that by these ear

ly sprays the calyx worms are practi-cally exterminated and that but few worms escape, and these go into the four days after she emerges, and, by the way, she lays 50 of them. The side

Results in Second Brood. Wormy sprayed. apples. 216 120 110 111

From these results we see that the third early spray was of no value in the second brood; the second one alone killed nearly haif the worms; the first one alone killed one-third more than the second alone, and the

first two together killed 3-4 of the worms in the second brood. Hard to Belleve. It is hard to believe that a spray properly put on at the right time in

May, in Utah, could kill over half May, in Utab, could kill over half the worms entering the apples in Au-Residence Phone Main 1494

Worms killed.

96 138

168

168

78

48

cent

worth 50 cents. At a cost of \$3 1 killed under the bands an average of In order to get these exact results every apple that set on a tree was counted and examined. In this ex-periment this was done on 64 trees av-4 worms on 100 trees, which meant the destruction of 10,000 eggs, the sav-

Second Brood.

the damage of the first brood of worms from the second, which was done by counting every wormy apple on the trees just before the second brood began its work. Three early sprays of the first worms, but it is not best were tested by varying the order of the first worms, but it is not best to figure by days, as the temperature the sprays in six different ways as the varies the cycle periods. The better following remarks will show. The way is to determine by brooding cages be found interesting. In another column will be found an

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tive prices. Bath brushes, rubber, sponges, buth sprays, all kinds of brushes, anything in toilet articles and rubber goods.

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A LETTER

I wish to say to all our old friends and customers who for so many years came to our shop for their meats, that it is useless for me to introduce Wood Bros., our successsors, as their 18 years in the butcher business in Wasco county has made them so widely known that an introduction is unnecessary. Being honest, capable business men, they have the means and ability to rwn a business as it should be run, and in a way that will be a credit to our city.

I expect to stay with the new firm for awhile, and will be glad to see you all at the old stand. 1 will guarantee that you will get just as much meat for your money, just as courteous treatment and just as prompt service as can be had in the city.

We will have a full line of everything good to eat for the Spring trade.

> Respectfully yours, E. S. MAYES.

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