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R. H. COLLINS, T. D. BOWERS
EDITORS,

SATURDAY, FEBRUARY 4, 1905.

THE MARYLAND AGRICULTURAL EXPERIMENT STATION.

Test of Different Spraying Material for the Control of San Jose Scale.

BY THOS. B. SYMONS.

It has been proven beyond a doubt that by proper spraying the San Jose Scale can be kept under control, and that not only can the trees which are affected by this pest, be saved, but that they can be made to grow profitable crops.

The profits which have come, the past year, from those orchards which have been thoroughly and systematically sprayed have been very encouraging to the owners, and also attracted much attention; so that it is probable that spraying will be more largely and thoroughly followed in the future than ever before.

As reported in Bulletin No. 90, there is no doubt but that the lime, sulphur and salt solution, when properly applied, will kill most all the scale, and make the trees otherwise more healthy and productive, and, from this standpoint alone, would seem to be about all that could be desired; yet as the solution is troublesome to prepare, and disagreeable to apply, there has been an effort to secure something to overcome these objections and, consequently, there have been a great number of materials placed on the market claiming to meet this demand and to possess other superior qualities.

In order to answer the many inquiries as to the value of the various spraying solutions, and to determine some other points which are in doubt, a series of experiments were conducted during the past year, and the results obtained are reported:

The following tests were made the past season:

1. Tests of various formulas and methods of making the lime, sulphur and salt solution.
2. Tests of caustic soda and potash solutions.
3. Tests of various "patented" or "trade mark" insecticides.
   a. "San Jose exterminator."
   b. "Consol."
   c. "Webcide."
   d. "Kil-o-scale."
4. Test of spraying at different seasons.
   a. Late fall and early winter applications.
   b. Early spring applications.
   c. Summer applicatiens.

In these tests twenty-eight different solutions were used, and they were applied on 1,260 trees. All of the trees used in the experiments were badly infested with scale.

The details of these experiments are given it tables Nos. 1, 2, 3 and 4.

RESULTS OHTAINED.

The results obtained in the main were quite satisfactory and conclusive; yet in some instances the conditions which prevailed at the time the sprays were applied prevented their proper action, and, consequently, due allowance must be made in such cases.

1st. The various combinations of lime, sulphur and salt gave goods results.

2nd. That it would seem advisable to have at least twenty pounds of lime and fifteen pounds of sulphur to each fifty gallons of water.

3d. That the cooked solutions seemed to give better results than the uncooked.

4th. That after the portion of the solution had been cooked it may be diluted with either hot or cold water.

5th. That the use of boiling water to slack the lime, with the sulphur and salt added at the same time, gave good results. The work involved in this method proved to be as great as when the whole was boiled.

6th. The lime and sulphur formulas (without salt) gave good results in some cases, but not in others, and do not warrant definite conclusions without further tests.

7th. The addition of caustic soda or potash to the lime and sulphur solution seemed to be an advantage, particularly when it was not cooked.

8th. The caustic soda solution, of the strength used, killed a large number of scale, yet they were not effective in controlling the scale.

9th. None of the patented insecticides proved effective in killing the scale, and as these materials are made at present they cannot be recommended.

EARLY SPRING APPLICATIONS.

The spring applications gave very good results, and, on the whole, seemed to be the most favorable time for applying the spray, yet the advantage of the spring applications over the fall and winter applications was not sufficient to warrant deferring the work if the earlier dates were more convenient.

SUMMER APPLICATIONS.

It was the intention to test a number of materials, with the idea of securing one that could be applied with safety about the season when the young are crawling, but other pressing work prevented the taking up of this work on as large a plan as was expected. However, tests were made of two of the patented insecticides which were advocated for spraying at that time, and, for comparison, some trees were sprayed with full and half-strength solutions of lime, sulphur and salt. The results were that the lime, sulphur and salt solutions gave poor results and caused loss of foliage of the trees.

The "Kil-o-scale," applied June 18th injured the foliage of the trees considerably and had no effect on the scale, but the same trees were sprayed on September 24th with a modified "Kil-o-scale," which killed the scale but injured the trees. Until these difficulties are overcome this spray cannot be recommended.

"Webcide" did not kill the scale and did not injure the foliage. It has nothing to recommend it for destroying the San Jose Scale.

RECOMMENDATIONS.

In view of the results recorded in this bulletin, and the observations made in the various parts of the State, there seems to be no spray that can be recommended for the control of the San Joso Scale, except the lime, sulphur and salt solution.

The following solution would seem to be the best that can be recommended:

Good quality of freshly burnt stone lime	20 pounds
Flowers of sulphur	15 pounds.
Common salt	10 pounds.
Water	50 gallons.

DIRECTIONS FOR MAKING SOLUTION.

Put twenty gallons of water in an iron pot or hog scalder and bring it to a boil, and then add the stone lime and sulphur. The sulphur should be made into a paste with hot water before placing it in the boiler in ordor to facilitate its mixing. After the lime and sulphur have boiled for a few minutes add the salt. Boil the mixture, stirring occasionally, from thirty minutes to one hour, or until the sulphur is thoroughly dissolved and produces a clear amber-colored solution. Then dilute by adding sufficient water to make fifty gallons. Pass the mixture through a strainer, with at least twenty meshes to the inch, into the spray barrel, and apply to the trees warm.

PUBLIC SCHOOL TEACHERS OF KENT COUNTY.

The following is a list of the public school teachers of Kent county and their postoffice address:

FIRST DISTRICT.

Mo. 1—Virginia Johnson, Millington; No. 2—Gilbert B. Taylor, Prin., Helen Power and Mattie G. Hazel, Ass'ts, Millington. No. 3—Lelia N. Ware, Massey. No. 4—Elizabeth Anderson, Sassafras. No. 5—Ada Adele Ford, Galena. No. 6—George Medders, Prin., Galena, Anna W. Smith and Annie B. Weer, Ass'ts, Galena. No. 7—Minnie Brockson, Galena. No. 8—Mabel Price Millington, R.F.D. No. 2. No. 9—Julia Brinsfield, Golt's. No. 10—Clara H. Bryan, Millington.

SECOND DISTRICT.

No. 1—Marietta Loud, Chestertown. No. 2—Nellie E. Waters, Kennedyville. No. 3—Anna S. Matthews, Locust Grove. No. 4—Nellie Barkwick, Prin., Hannah W. Bell, Ass't, Kennedyville. No. 5—Elsie I. Crew, Kennedyville. No. 6—Milton Melvin, Kennedyville, R. F. D. No. 2. No. 7—Arsula Moffett, Prin., Mary J. Anderson, Ass't., Still Pond. No. 8—Bertie Miller, Kennedyville. No. 9—Mary E. Noland, Millington, R. F. D. No. 2.

THIRD DISTRICT.

No. 1—Barbara Antuony, Chestertown. No. 2—Bessie M. Nicholson, Worton R. F. D. No. 1. No. 3—Julia Burchinal, Hanesville. No. 4—Eva H. Wallis, Worton R. F. D. No. 1. No. 5—Addie Hurlock, Prin., Burtie Burchinal, Ass't, Worton. No. 6—Alice Hepbron, Lynch's. No. 7—Florence Jewell, Prin., Louise Carroll, Ass't, Betterton. No. 8—Bessie Wheatley, Coleman's. No. 9—May Pennington, Worton.

FOURTH DISTRICT.

No. 1—J. L. Smyth, Prin., Jeannette Gooding, Mamie W. Carroll, Laura R. A. Thomas, Fannie E. Stuart, Emma F. Davis, Miriam Leaverton, Edith W. Harley, Owen C. Blades, Chestertown.

FIFTH DISTRICT.

No. 1—Nellie Pearce, Overton. No. 2—J. A. Greenwood, Prin., Mary R. Camp, Ass't, Lelia M. Reese, Maude C. Aldridge, Lillian Maslin, Estella Biddle, Ada Middleton, Rock Hall. No. 3—Lula E. Thomas, Prin., Arthur Greenwood, Ass't, Grace Colburn, May Douty, Rock Hall. No. 4—Hattie E. Lewis, Edesville. No. 5—Fredericka Strong, Rock Hall. No. 6—Lillian Stevens, Rock Hall. No. 7—Lillian A. Willson, Rock Hall.

SIXTH DISTRICT.

No. 1—Grace Whaland, Chestertown. No. 2—Caroline I. Smith, Prin., Iris Anthony, Ass't, Fairlee. No. 3—Emma C. Mills, Lankford. No. 4—Mildred N. Crawferd, Chestertown. No. 5—Mary E. Nicholson, Melitota. No. 6—Myrtle Hoover, Fairlee.

SEVENTH DISTRICT.

Mo. 1—Wheeler B. Peterton, Chestertown. No. 2—Carrie V. Ford, Pomona. R. F. D. No. 3. No. 3—Mary A. Brown, Pomona, R. F. D. No. 3. No. 4—Nora V. Boston, Lankford.

COLORED TEACHES.

FIRST DISTRICT.

No. 1—Alverta V. Green, Millington. No. 2—Emma L. Peaker, Golt's. No. 3—O. P. Dickerson, Sassafras. No. 4—Ernest Davis, Galena. No. 5—Elva E. McLane, Millington, R. F. D. No. 2.

SECOND DISTRICT.

No. 1—Helen F. Thomas, Still Pond. No. 2—W. H. Mitchell, Lynch's. No. 3—Mamye Blackwell, Morgnec. No. 4—Anne Douglas, Locust Grove.

THIRD DISTRICT.

No. 1—Alexander B. Nichols, Melitota, R. F. D. No. 1. No. 2—Amanda E. Pearce. Worton, R. F. D. No. 1 No. 3—Ella Handy, Worton. No. 4—Bessie L. Moore, Worton.

FOURTH DISTRICT.

No. 1—Leanora A. Bruce, Chestertown. No. 2—Bessie L. Rust, Chestertown.

FIFTH DISTRICT.

No. 1—Leanora C. Minkins, Edesville.

SIXTH DISTRICT.

No. 1—Minnie Anderson, Fairlee, R. F. D. No. 2. No. 2—Chas. B. Spriggs, Fairlee, R. F. D. No. 2.

SEVENTH DISTRICT.

No. 1—Hattie Minkins, Pomona, R. F. D. No. 3. No. 2—T. K. Bruce, Lankford, R. F. D. No. 2.

PA JONES AND HIS PLASTER.

All the Family Suffered When he Had the Backache.

Great was the anguish in the Jones family. For two days the amiable head of the house had been hanging around home, sweet home, howling with pain. He had a spell of kinks in the back, but wouldn't loosen up the price of a medical tete-a-tete to learn whether it was an attack of lumbago or just a plain case of unhooking his spine while making an ultra-profound bow.

All the Joneses had to walk on their tiptoes, the dog had taken to the woods when he heard pa start to wail, and the cat, which had bean thrown out the parlor window three times, fiinally decided that it was the part of wisdom to stay out. It was when Ma Jones was so thoughtless as to put a smiling wrinkle in her face that poor Jones cried in a sadful voice:

"Madame, if you had one feeling in that calloused heart of yours for your sick, perhaps dying, husband you would suggest some way of alleviating this pain instead of joyously looking forward to collecting the in surance on my life."

"Henry you talk life a man that had scrapple for breakfast," reported Ma Jones, indignantly. "You know I wanted to send for a doctor, but, as usual, you said you could cure yourself. You are an easy mark for the undertakers."—

"That's right; keep in up; keep on nagging and make me sorry that I didn't die when I was a baby."

"You are a baby now and always will be a baby. Here, Willie, run down to the drug store and get your pa a backache plaster."

Little Willie returned some time that day and then the patient papa wearily climed the golden stair to adjust the gentle sticker. For 10 minutes everything was as quiet as a silent prayer, and then a bunch of noise broke out like a bureau going through a skylight without stopping at flag stations. This was followed by several remarks on the half shell, and the hasty fight of Ma Jones to the regions above.

"Henry what on earth is the matter with you?" she cried.

"Nothing, Mrs. Jones, nothing at all. I'm making this howl for fun."

"What have you been doing with that fish glue?"

"Trying to make this plaster stick according to the directions, testimonials and credentias."

"What is that needle and cotton and those buttons for?"

"That's the court of last resort. When I couldn't make that thing stick as it should be stuck I decided to sew buttons on it and equip it with a pair of suspenders."

Ma Jones took up the plaster, gave one glance at it and then smiled in a way that hurt Jonesy worse than the painful kinks.

"Henry, you are the limit," she said. "How did you ever expect to make that plaster stick if you didn't pull it apart. There, now; that's the way to do it."

And a few minutes later, to the great joy of the Jones family, the plaster began to pull the pain from Pa Jones' back.—*Philadelphia Telegraph.*

Spelling-day in Belgium.

"Spell mortor-car," said the Belgian teacher to his class in spelling. "Snelpaardeloozoondeerpoorwegpetrolirjuig," replied the best speller in the class. "Mortor-car" in Belgian is "rapid-horseless-without-rail-driven by petroleum." Automobiling seems to be quite as hard upon stay-at-home, earnest student boys and girls in Belgium as it is upon stray cats and dogs and hens who attempt to dispute the highway with the flying horseless wagons.

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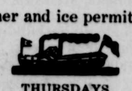

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Steamer	will leave	Fredericktown at	12.00 nonn
"	"	Shallcross at - -	12.30 noon
"	"	Cassidy's at - -	12.45 P. M.
"	"	Betterton at -	1.15 P. M.
"	"	Gale's at - - -	2.15 P. M.
"	"	Tolchester at - -	3.00 P. M.

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