

LIME-SULPHUR SPRAYING OF TREES

E. D. Cerdery, State Entomologist, Writes Instructively on the Subject.

PREVENTATIVE OF SCAB IN APPLES.

The serious results in the form of "Bordeaux Injury" which often follow applications of Bordeaux mixture render it almost imperative that some means be found of reducing this injury, or that some spray be discovered which may be used as a substitute for Bordeaux.

For the past two or three years I have observed, after winter spraying apple and pear trees with lime-sulphur solutions, for San Jose scale, that the fruit upon the sprayed trees was less "scabby" than that upon unsprayed trees. Upon two different occasions this winter application was delayed until the blossoms were about to open and while the spray which was applied at the full strength did considerable injury at the time, its decidedly beneficial effects were noticeable when the fruit was gathered. However the generally good results which follow winter application of lime-sulphur are now well known and this part of the work requires no further comment.

Nevertheless, these observations suggested to me the probability that lime sulphur solution might be used as a substitute for Bordeaux mixture for summer applications and during the past year I have so used it upon various plants and for various purposes.

It is not proposed at this time to go at all into detail regarding these experiments—I wish only to call attention to some of the results obtained which show conclusively that lime-sulphur solutions may be used as a summer spray without injury to foliage and also point strongly to the probability that by its use apple scab may be effectually controlled without danger of spray injury to the fruit.

Sufficient work has not been done to justify the statement that lime-sulphur is equal to Bordeaux as a preventive of this disease, but the results of the single season's work point so strongly to this conclusion that I feel justified in calling attention to them, that growers who have suffered loss from Bordeaux injury, and others who are interested, may make comparative tests of the two sprays the coming season.

In carrying out the work the past season it became necessary first of all to determine how strong a solution could be used without injury to the foliage. This, again, made it necessary to adopt some method of "standardizing" the spray. After considerable work we adopted what may be termed the "stock solution" method of preparing the spray and adopted as a standard for the work a "stock solution" having a specific gravity of 1.27. (For determining the specific gravity of the solution while at work in the field we have found the specific gravity hydrometer a very convenient instrument. It is cheap, simple and convenient, and I would recommend every grower who expects to use lime-sulphur as a summer spray to obtain one.)

This solution, similar to the Rex, Fiagara and Phoenix lime-sulphur sprays upon the market, any of which would undoubtedly do as well, is of a clear dark amber color, is without sediment, and as stated above had a specific gravity of 1.27. Analysis showed that each gallon contained in solution 2.38 pounds of sulphur.

During the season of 1917 these "stock solutions" of lime-sulphur were used variously diluted upon the apple, pear, peach, plum, prune, quince, cherry, grape, potatoes and celery.

The results obtained indicated that lime-sulphur sprays produced by diluting 1 gallon of the stock solution with 15 gallons of water may be safely used upon all of the above-named plants, with the exception of the peach, unless it may be early in the spring when very slight injury was produced. For use upon the peach each gallon of solution should be diluted with at least 20 gallons of water.

For the experiments with apple a block of 400 Yellow Newtown trees were selected because this variety is particularly susceptible to this disease and because this block was known to be badly infested.

The entire orchard was sprayed with lime-sulphur for San Jose scale in February. The orchard was

then divided into two plots. One plot was sprayed with Bordeaux upon April 20th, May 8th and May 17th. The other plot was sprayed upon the same dates with lime-sulphur solution diluted 1-15. Unsprayed trees are left as checks in each plot.

At picking time the fruit was carefully gathered, examined and separated into three grades to show per cent of fruit absolutely free from scab, slightly scabby and badly scabbed. It was then regraded to show per cent of fruit injured by spray.

The summing of results is shown graphically in the following table. Column marked A, shows per cent of fruit free from scab; B, that showing only small scab spots; C, that badly scabbed and unmarketable; D, shows spray injury.

	A	B	C	D
Unsprayed	19.9	28.7	51.3	0
Sprayed with Bordeaux	49.1	25.4	13.5	11.9
" " lime-sulphur	79.3	15.3	5.3	0

It must be remembered in interpreting these results that they represent only one season's work upon one variety, but when taken with the results that have been obtained in spraying other plants they certainly point strongly to the conclusion that lime-sulphur solutions may be a satisfactory substitute for Bordeaux for summer spraying as they are now for winter applications.

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SUMMONS.

IN THE CIRCUIT COURT OF THE STATE OF OREGON, IN AND FOR THE COUNTY OF COOS.

I. A. Turnell, plaintiff vs. Emma E. Turnell, sometimes known as Emma E. Bell, or Emma E. Fleming or Emma E. Bell, defendant.

To Emma E. Turnell, sometimes known as Emma E. Fleming or Emma E. Bell, the above named defendant:

IN THE NAME OF THE STATE OF OREGON: You are hereby required to appear and answer the complaint filed against you in the above entitled suit within ten (10) days from the date of the service of this summons upon you if served within this county or within twenty (20) days if served within any other county within the state of Oregon, but if served by publication then on or before the last day of the time prescribed in the order for the publication of this summons, which prescribed time is six weeks, the last day of which time will be Thursday, the 23d day of April, 1918.

And if you fail to so appear and answer said complaint by the said time, the plaintiff will apply to the Court for a decree forever annulling and declaring void the marriage contract existing between yourself and the said plaintiff, and for a judgment against you for the costs and disbursements of this suit.

This summons is published in the Bandon Record, a weekly newspaper published in Coos county, Oregon, for six consecutive weeks, beginning March 12th, 1918, and ending April 23d, 1918, by order of publication made by the Honorable John F. Hall, County Judge of Coos County, at chambers in Coosville City, Oregon, on the 10th day of March, 1918.

GEO. P. TOPPING
Attorney for Plaintiff.

Notice for Publication

Department of the Interior,
Land Office at Rossburg, Or.
January 29, 1918.

Notice is hereby given that Cassius M. Doyle, of Arago, Oregon, has filed notice of his intention to make final five year proof in support of his claim, viz.: Homestead Entry No. 10312 made Nov. 8, 1896, for the SW 1/4, Section 26, Township 29 South, Range 14 W., M. M., and that said proof will be made before G. T. Treadgold, U. S. Commissioner at Bandon, Oregon, on Thursday, April 2, 1918.

He names the following witnesses to prove his continuous residence upon, and cultivation of, the land, viz.: Edward Hadsall of Bandon, Coos County, Oregon, Edward L. Ohman, of Prosper, Coos County, Oregon, Virgil Hixon, of Parkersburg, Coos County, Oregon, Alfred M. West, of Parkersburg, Coos County, Oregon.

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