

Lime-Sulphur--Its Use as a Fungicide and an Insecticide

By Prof. F. J. O'Gara, Pathologist. Written especially for the Medford Mail Tribune. (Copyright, 1911, by Medford Printing Company.)

ELEVENTH INSTALLMENT.

Fungus Diseases and Insect Pests Which May Be Controlled by Lime-Sulphur.

It has only been a few years since the general practice in using lime-sulphur as an orchard spray, was confined solely to the control of the San Jose scale. It might be said that before 1907, lime sulphur could be termed, on account of its restricted use, a "scaleicide."

Insect Pests Controlled by Lime-Sulphur.

The insect pests of the Rogue River Valley controlled by lime-sulphur are as follows: 1. San Jose Scale (Aspidiotus perniciosus.) 2. Woolly Apple Aphis (Schizoneura lanigera.) 3. Green Apple Aphis (Aphis pomi.)

Fungus Diseases Controlled by Lime-Sulphur.

The fungous plant diseases of the Rogue River Valley controlled by lime-sulphur and its compounds with other mixtures are as follows:

- 1. Apple Mildew (Sphaerotheca mali.) 2. Peach Leaf Curl (Exoascus deformans.) 3. Peach Blight or Shot Hole (Coryneum beyerinckii.) 4. Apple Anthracnose (Gloeosporium malicorticis.)

The Peach Blight and the Apple Anthracnose are not so well controlled by lime-sulphur as by Bordeaux mixture, and for this valley, where infection is considered serious through lack of previous year's spraying, lime-sulphur is never recommended.

Since we consider, for this valley, lime-sulphur as a dormant spray to be applied to the trees as late as possible in the spring before the buds begin to open, and at that time wish to apply it so as to control not one pest but several, it is advisable to use it much stronger than has been customary.

Table for Diluting Lime-Sulphur Solutions of Varying Density.

In the following table the dilutions given for each degree Beumpe are such as to give a final density of the diluted mixture of about 4.5 degrees Beumpe or 1.030 Specific Gravity.

Table with 4 columns: Reading on Hydrometer, Specific Gravity, Amount of dilution, and Number of gallons of water to one gallon of lime-sulphur solution. For Dormant Spraying.

This table is constructed for a solution of 4.5 degrees Beumpe or its equivalent 1.030 Specific Gravity. The figures in the last column, indicating the number of gallons of water for each gallon of the concentrated lime-sulphur, are obtained by dividing the decimal of the Specific Gravity in column 2 of the table by 0.030, the decimal of the spray, and subtracting one. It will be seen that the division has only been carried out to the nearest tenth of a gallon.

spray tank, add one to the number of gallons of water necessary to dilute the concentrate, and divide the capacity of the barrel or tank (in gallons) by this number: Example, A spray tank holds 200 gallons; the concentrated lime-sulphur solution tests 35 degrees Beumpe; how many gallons of the concentrated solution must be used to make a tank of diluted lime-sulphur solution? In the table we find that a lime-sulphur solution testing 35 degrees Beumpe should be diluted 1 to 9. Therefore, 200 divided by 10 (1 plus 9) equals 20, which equals the number of gallons of concentrated lime-sulphur necessary to make a 200 gallon tank of diluted lime-sulphur having a Beumpe test of 4.5 degrees or 1.030 Specific Gravity.

PERJURY CHARGES GARDNER'S COME BACK

NEW YORK, Feb. 27.—Perjury charges against Congressman Otto Foelker, will be the come back of former state Senator Frank Gardner, who was accused by Foelker of trying to bribe him to vote against the Hughes anti-race track bills when both were members of the New York legislature.

SELLS SHOW TICKETS TO SECURE DIVORCE

RENO, Nev., Feb. 27.—Known here as "The Father of the Divorce Colony," J. M. Buddington, a wealthy New York sewer pipe manufacturer, is today selling tickets in a 10-cent vaudeville house.

He desired to be engaged in a "useful" occupation following the ruling of Judge Orr that applicants for divorce must show a bona fide residence determined by their occupation.

CHANGES MADE IN AREA OF INYO FOREST RESERVE

WASHINGTON, D. C., Feb. 27.—In accordance with an agreement between the heads of the forest service Owens river settlers and the city of Los Angeles, President Taft ordered 276,424 acres eliminated from the Inyo national forest of California and 80,523 acres added to that reserve.

TO CURE A COLD IN ONE DAY TAKE LAXATIVE, BROMO QUININE TABLETS. DRUGGISTS RETURN MONEY IF IT FAILS TO CURE. E. W. GROVE'S SIGNATURE IS ON EACH BOX. 25c.

REWARD

STOLEN—From my barn on Griffin Creek, on night of February 21, bay horse and saddle; weight of horse about 1150; has warts in both ears; brand large W; \$25 reward. J. R. WILSON. R. F. D. 1, Box 56, Medford, Oregon.

Our Correspondents

EAGLE POINT EAGLETS. (By A. C. Howlett.)

Since my last there has been a great many people here of various ages, sexes and colors. Some of them are very inquisitive and ask all kinds of questions about the soil, climate, schools, churches, social and moral status of the community.

CENTRAL POINT ITEMS

Miss Woolverton of Medford was the guest of her brother, A. E. Woolverton, Saturday.

Mr. and Mrs. Henry Farnum spent Sunday at Grants Pass.

EDEN PRECINCT ITEMS.

J. W. Riechart, who is visiting his father-in-law, A. H. Houston, of West Phoenix, was in Medford Friday.

Mrs. E. O. Rease of Ashland, who has been visiting her parents in North Talent, returned to her home at Ashland Friday.

A Moor of Phoenix was trading in Medford Thursday.

S. G. Van Dyke, road supervisor, has teams out on the road running the scraper, leveling up the road between Talent and Phoenix.

Mrs. Lloyd Colver of Phoenix was visiting her sister-in-law, Mrs. A. S. Furry, Friday.

Mrs. J. Martin of Phoenix was a Medford shopper Friday.

Mrs. C. Carey and her daughter, Mrs. E. O. Rease, went to Medford Friday.

Mrs. W. R. Coleman of Jacksonville is spending the week-end at Phoenix.

Jay Goddard of Palmer orchard was in Phoenix Friday afternoon.

The neighbors in North Talent were shocked to hear of the sudden death of Mrs. S. F. McDonald Friday afternoon. She was only ill a few days with grip, and complications.

Mr. and Mrs. McDonald have been residents of North Talent for 12 years. She was a lady of many estimable qualities. Beloved by all who knew her. She leaves an aged husband and one son, James McDonald, besides a host of friends.

EDEN PRECINCT ITEMS.

Mrs. Amelia Albers of Salem, a former resident of Central Point, has been visiting Mrs. C. B. Rostel for a few days.

Mr. Baker of Grants Pass addressed the Y. M. C. A. Sunday afternoon.

Mrs. E. E. Emerson was a Medford visitor Saturday.

Mrs. Evelyn B. Maple of Portland, who has been visiting friends here and also attending to business, left for her home in the "rose city" Friday evening.

The revivals meetings that have been held at the M. E. church the past month have done much good, closed Sunday. Rev. Davidson and McClaren left for Portland Monday morning.

Mr. and Mrs. J. W. Priest and family spent Sunday in Phoenix.

Mr. and Mrs. T. M. Jones made a trip north Sunday.

The Rogue River band gave a concert on the street Sunday afternoon.

George Wright of Prospect is here visiting his family.

Among the guests registered at Hotel Dunlap the last of the week were A. Pannell, John Alexander, C. Hallam, all from San Francisco; P. N. Lathrop, W. Wilson, all of Portland; C. S. Bartlett, Klamath Falls; C. E. Lyons, Seattle; T. J. McBride, Redding; R. W. McClenahan, Medford; T. L. Duncan, Ashland; J. W. McBride, Table Rock; E. A. Holden Central Point; H. W. Lindsay, Central Point.

Mrs. Randall and daughter returned from a visit to Woodville Monday.

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MEDFORD THEATRE Tuesday Feb'y 28th A COMPLETE SCENIC PRODUCTION ENTIRE ORIGINAL CAST

Silver Threads BY MARTIN V. MERLE With the Great Contra Tenor RICHARD J. JOSE A Story of New England Life of Today Embracing the Songs of Old. Mr. Jose will be remembered by his former connection with minstrels, the "Old Homestead" and vaudeville. SEATS ON SALE FRIDAY, FEBRUARY 24TH.



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