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UNITED STATES DEPARTMENT OF AGRICULTURE.
BUREAU OF ENTOMOLOGY,
WASHINGTON, D. C.

FOREST ENTOMOLOGY 17.

April 11, 1916.

Brief Information on
SCALE INSECT REMEDIES.

Spraying Substances

Stock mixtures and their preparation.	Amount of Stock to 2 gals. of water.	
	For summer use.	For winter use.
Lime Sulphur, 33° Baume (to be used against **armored** scales **only**). Procurable in the market with directions for dilution and application given on container.	1/2 pint.	1 quart.
Soap, preferably a potash fish-oil soap	1/2 pound.	4 pounds.
Kerosene emulsion: **Formula:** (a) Kerosene, 2 gals.; (b) fish-oil or laundry soap, 1/2 lb.; (c) water 1 gal. **Preparation:** (1) Dissolve the soap in boiling water; (2) remove the vessel from fire, immediately add the kerosene and **thoroughly agitate** the mixture for about 5 minutes until it becomes uniformly creamy. **Note.** To avoid boiling, a naphtha soap may be used, but the quantity of soap must be doubled and the water must be soft (rain water).	1/3 gal.	1 gallon.

RULES: (1) **Spray thoroughly** and with force. (2) Trim severely before spraying heavily infested plants. (3) Be sure the mixtures are properly prepared and correctly diluted. (4) Vary the strength of solution in accordance with the degree of tenderness of the plants to be sprayed. (5) Cooperate with neighbors in equipment and operations or engage reliable persons making a specialty of the work, wherever feasible and conditions warrant it. (6) Let us know your results.

A. D. HOPKINS,
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