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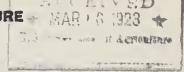


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UNITED STATES DEPARTMENT OF AGRICULTURE - MAR 1 6 1923

BUREAU OF ENTOMOLOGY

WASHINGTON, D. C.



BRARY

FOREST ENTOMOLOGY BRIEF 46.

July 14, 1919.

THE EUROPEAN ELM SCALE (Gossyparia spuria (Modeer))

History and Damage .- This insect, an immigrant from Europe in about 1884. lives on elm trees only and may occur wherever this tree is grown in the United States. As a rule it does not kill the trees but it is often so very injurious, especially to young stock, that, together with the injury caused by the elm leaf-beetle, another importation from Europe (see Forest Entomology Brief 39), attack by bark borers, etc., is peduced and the trees do not recover.

How it Lives and Looks. - Like others of its kind this scale insect feeds on sap which it sucks from the bark of the trunks and twigs or leaves by means of a slender, thread-like beak. The winter it spends in crevices of the bark on the trunk and larger branches as brown immature males and females imbedded in white cottony matter. on the appearance of warm weather, in May at Washington, D. C., these forms begin to move about, molt, and mate, after which the females attach themselves permanently on limbs and trunk. young - clear, lemon-yellow, lice-like insects - issue during June and July, settling temporarily on leaves alone or on leaves and twigs, depending on the smoothness of the latter. In August they return to the larger branches and trunk to settle for the winter, thus completing in Washington the seasonal life cycle.

Remedies. - In the case of shade trees and nursery stock, the best means of killing this insect is to spray infested trees during the dormant season with a 7 per cent solution of miscible oil in water, applying it like kerosene emulsion, as described in the companion Brief. Spraying with a summer strength of such an oil while the young are hatching is the next best means of control. oil is procurable in seed stores under various proprietary names. Other means of destroying the insect are available, such as water applied with a hose under high pressure, but none are as satisfactory as the solutions mentioned.

A. D. Hopkins,

Forest Entomologist.

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