

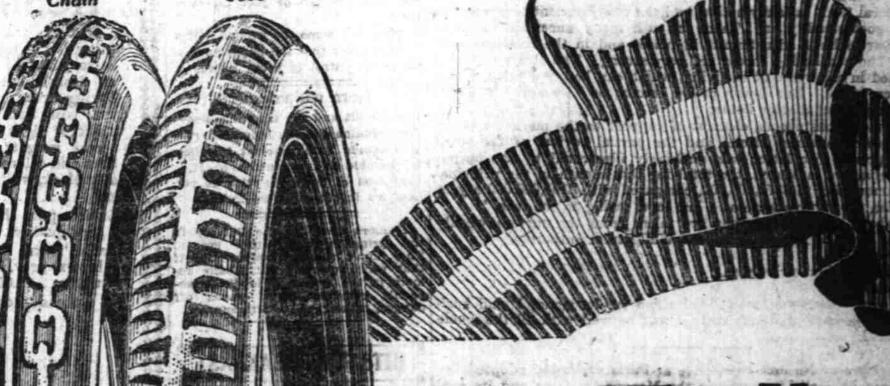
By the time the fruit buds have wollen sufficiently to separate the the larger part of the Sacramento Bud scales slightly at the tip the soap may be heated in a small valley of California. More recently adults force their way within, feedit has been found in destructive numing upon the tenderest portions in-The solution should be applied bers throughout New York state and ride the buds.

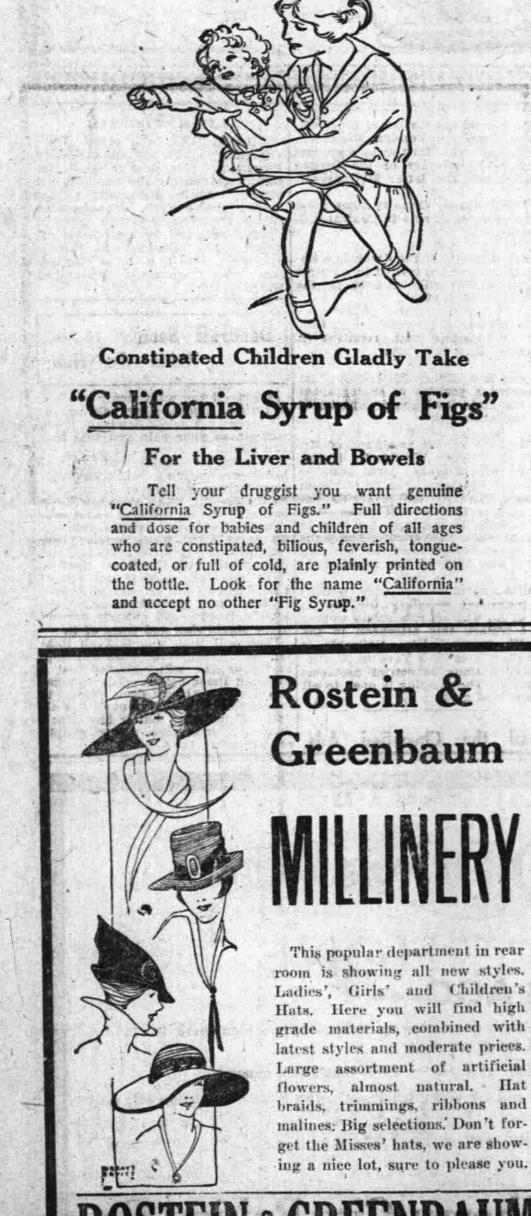
northwestern Pennsylvania. with considerable pressure, 175 to 225 pounds and as a driving spray. Economic importance: It is at the For very tall trees a tower is advis- present time the most important in-

kettle or vessel outside in which the

amount of water to dissolve it.

Eggs As soon as the first leaf surfaces of fruit stems are exposed, egg-laying usually begins, depending somewhat on the variety of fruit attacked Egg-laying begins the first day of March and continues until the





middle of April. Most of the egg tre deposited just under the epidermis in the fruit stems, young fruit and leaf stems. The eggs require about eight days to hatch. Larvae

By the time the leaves are breaking into full bloom the adults have done most of the damage caused by their feeding, and oviposition is at its height. Many of the earlier appearing adults are dying off and lar vae are beginning to appear in numbers. The very first larvae can usually be found about March 20th, and are in maximum numbers on the trees, feeding on the small fruit and young foliage, from the first to the middle of April. Reaching their full development, the larvae drop from the trees of their own accord or with falling calyces, or are blown by wind or knocked off by rain. After the middle of April the number on the trees diminishes rapidly and by the last of April all the larvae are off the trees and in the ground. Here they work down into the first three or four inches of hard soil below the loose surface mulch and construct a tiny cell, where they remain until the following spring.

Pupae The larvae mostly remain as such in these cells until September, when pupation begins, pupae being most abundant during October and November. Many adults can be found in the ground in December, and by the first of January practically all the thrips are in the adult stage and apparently ready to emerge and go into the trees whenever conditions are right. Broadly speaking, the thrips spend two months in the year in the adult, eggs and larval condition on the trees and the other ten months of the year as larvae, pupae and adults in the ground.

CONTROL MEASURES The pear thrips is in some respects unusual insect in that it remains dormant or semi-dormant confor about ten months of the Although on the trees for only ionths out of the twelve, it is able in this short time, in the absence of treatment, to completely destroy all prospects of a crop of fruit, in many cases within a very few days. The trees are attacked at the period of budswelling and blossoming, when they are most susceptible to injury These minute insects literally come in in swarms, and may, if left alone, completely destroy all of the fruit ouds of an orchard in four or five days. Many cases have been known where a delay of four or five days in spraying resulted in loss of the entire crop of fruit, and in some cases half of the huds were killed in three days after the thrips appeared on the trees in great numbers. In view of this condition it is very evident that any means of control must be very thorough and done in the most exacting manner at the proper time. . CULTIVATION

On gravelly an sandy soils plowing to a depth of from seven to nine inches results in killing from 60 to 80 per cent of the thrips present in the soil, but not a sufficient control, as enough thrips escape to cause great injury to the buds the following

spring. SPRAYING A tobacco extract containing 2% er cent nicotine, diluted at the rate

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