

ROSY APHIS
EXPERIMENT
IN
BECKWITH ORCHARD

New York Agricultural Experiment Station
Geneva, N. Y.

1917

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Insect The rosy aphis is a destructive insect
often pest of apple trees. During years
destructive. when it is abundant it checks the
 growth of the young apples, causing
 them to become knotty. Serious
infestation usually decreases the "June" drop,
as clusters of small, deformed apples remain on
the trees, which are often called "aphis apples"
or "cluster apples." Leaves attacked by the
aphides become tightly curled and later turn
yellow and drop. During severe outbreaks infested
trees lose many leaves.

Developing Until recent years growers have been
efficient powerless to prevent losses in seasons
spraying when these insects were superabundant,
methods as existing spraying practices were
 ineffective. Experiments during recent
 years by the Experiment Station
at Geneva have pointed to a delayed dormant
application with lime-sulphur and nicotine solution
(lime-sulphur diluted 1 to 8, 100 gallons, and
nicotine solution 40 per cent, $\frac{3}{4}$ pint) as the most
practical means of preventing injuries by the
rosy aphis. The experiment in the Beckwith
orchard is one of a series that is being conducted
for a period of years in Oswego, Orleans and Niagara
counties to demonstrate to owners of apple orchards
the value of the delayed dormant treatment for
the prevention of important damage.

In this experiment 14 bearing Greenings were sprayed on May 8, when the leaves of the more advanced buds were projecting about half an inch, with lime-sulphur and nicotine solution in the proportions previously mentioned. For checks on this treatment 6 large bearing Greenings and two small trees were left unsprayed. The application was made with a Friend "Nu-System Spray Gun," the operator spraying from the ground. In examining the individual trees of these two plats, which are plainly labeled, kindly note the following points:

1. Color and vigor of foliage.
 2. Quantity and condition of marketable apples.
 3. Reduction in numbers of "aphis" or "cluster apples."
- Sprayed trees**
1. Weak foliage on worst aphid-infested trees.
 2. Numbers of "cluster" or "aphis apples" on most bearing trees.
 3. Defoliation of certain trees.
- Unsprayed trees**

Growers interested in control of rosy aphid are invited to visit the Experiment Station at Geneva where effective results in controlling rosy aphid may also be observed.

