## Special Newspaper Bulletin.

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## Missouri Agricultural





## Experiment Station.

COLUMBIA, MISSOURI.

APRIL 3rd, 1897,\_\_\_\_

## INSECTS INJURING APPLES.

Bulletin No. 36 of the Missouri Agricultural Experiment Station, Columbia, by Prof. J. M. Stedman, reports the results of elaborate experiments with means of preventing two insects very injurious to apple trees, and describes cheap and efficient methods of combating them.

The insect known as the apple leaf folder may be readily killed by thoroughly spraying infested trees before they have had time to fold Green. are unfolding.

Green, 3 pounds of fresh lime, 150 foliage of the trees. gallons of water.

can be most successfully done.

mixture as recommended above.

If necessary, the trees may be sprayed again immediately after all the blossoms have fallen, but in this case the amount of water in the mixture should be increased to 175 gallons.

Never spray a fruit tree while it is in blossom; serious injury to the blossom and imperfect pollination may result, and in many instances honey bees will be killed.

Never omit the fresh lime, and or nursery stock just as soon as the always use two or three times as young insects begin to hatch, and much lime by weight as Paris This will lessen the the leaves to any considerable ex- chances of burning the leaves and This spraying should be injuring the trees. Spray with a done just as the apple tree leaves mixture of the strength just given. To make it weaker is to render it The spraying mixture should be less effective in killing insects; to made as follows: I pound of Paris make it stronger is to injure the Always see that the mixture is kept constantly Since there are three broods of stirred while spraying. Apply with this insect each year, there are as much force as possible, and use three periods during which spraying as fine a spray as can be made. Spray thoroughly. Hold the spray The leaf crumpler, another insect on the tree long enough to saturate very injurious to apple trees, may it and to reach all parts, and always be readily killed by thoroughly spray from at least two sides. This spraying the infested trees while bulletin is for free distribution to the the leaves are unfolding and before farmers, and may be had by writing the blossoms open, with the same to the Director of the Experiment Station, Columbia, Missouri.