



Efficacy of HUMA GRO® PROUD 3® to Control Thrips on Roses

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Research Report

Summary:

Various pest control products were tested on infestations of immature and adult thrips (*Frankliniella occidentalis*) on potted commercial roses ("Belinda's Dream" and "Caldwell Pink") to determine the effectiveness of each treatment. No significant differences were found between treatments within weeks sampled and overall mean across all weeks sampled. In all treatments, no phytotoxicity was observed.

Description

The trial was conducted outdoors at the production facility of a potted rose grower/seller in Texas. Plots were six roses (in two-gallon liners) by six roses for a total of thirty-six rose plants per plot. Treatments were replicated six times (four replications were cv. "Belinda's Dreams" and two replications were cv. "Caldwell Pink").

To sample thrips, three rose flowers from each plot were removed and inserted into plastic containers. Flowers were emasculated, inserted into another plastic container and shaken. Thrips were extracted (via aspiration) into alcohol vials from the container walls until no thrips were found after thirty seconds of searching. Each plot sample was shaken and extracted four times. Immature and adult thrips were counted separately under a stereomicroscope.

Before the trial, sampling was performed and plots were assigned treatments so that there was no difference between treatments. Insecticide applications were made using a two-gallon hand pump sprayer with a flat jet nozzle. Leaves and flowers were sprayed until runoff was achieved. On weeks where sampling and spray applications were made on the same day, sampling always preceded spray applications. Data was analyzed for significant differences.



Thrip Egg to Adult Stages of Life Image by Jeanne Himmelein, Michigan State University



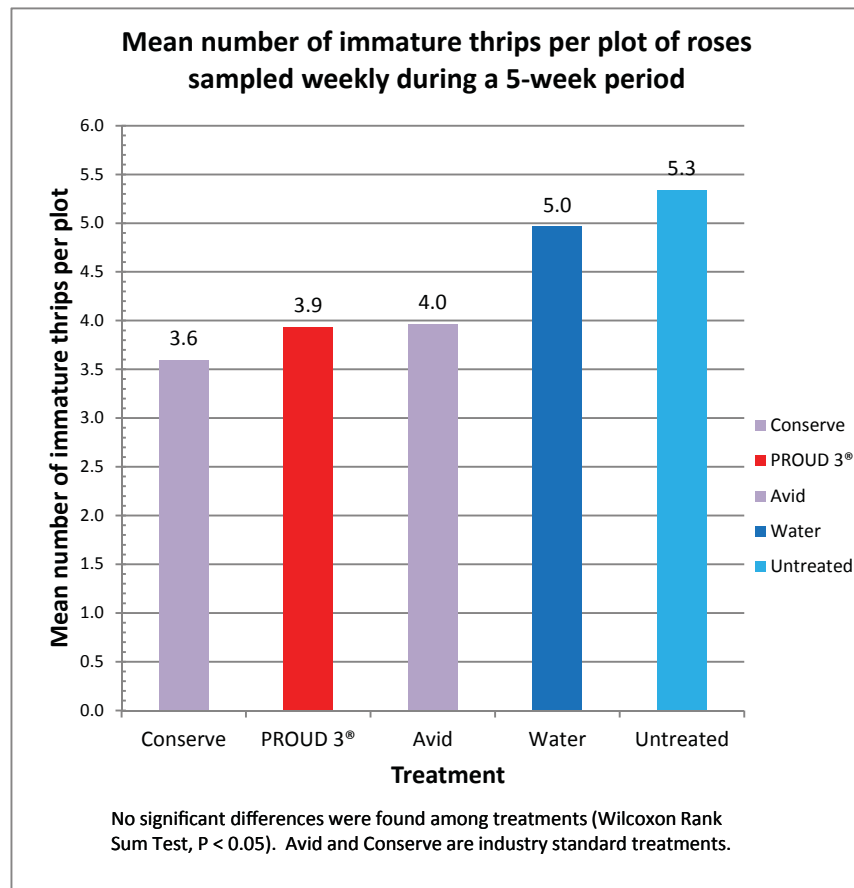
Belinda's Dream Rose
Image by Milo Lewis, Texas A&M University



Caldwell Pink Roses
Image by Milo Lewis, Texas A&M University



Rows of Roses Image by Milo Lewis, Texas A&M University



Results

Efficacy of PROUD 3® to Control Nymph Thrips:

No significant differences were found between the standard products (Conserve & Avid) and PROUD 3® on the immature thrips. Therefore, control of immature thrips by OMRI-listed PROUD 3® was comparable to control by the two standard treatment products.

PROUD 3® is an OMRI-listed crop protection product acceptable for organic production. When following label instructions, it is a safe and effective, foliar-applied insecticide, miticide and fungicide. The mode of action is as a contact killer. As an insecticide, it works best on soft bodied insects or on juveniles.

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