

**CONTROL OF SILVERLEAF WHITEFLY
WITH APPLAUD (BUPROFEZIN)
IN CALIFORNIA AND ARIZONA**

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Abstract

Applaud (buprofezin), is a new insect growth regulator from AgrEvo USA Company for control of silverleaf whitefly in cotton. Applauds unique chemistry allows it to be used in resistance management situations and its safety to beneficials makes a good fit for Pest Management Programs.

Applauds primary mode of action is inhibition of chitin synthesis, affecting molting at all nymphal stages. Although Applaud does not have a direct affect on adult whitefly, it will suppresses oviposition and reduce egg hatchability of treated adults. Toxicity occurs through contact, ingestion and vapor activity.

In 1997, Applaud was evaluated for control of whitefly under a Section 18 Registration in California and Arizona by university researchers and private consultants. Applaud at 0.35 lb ai/A alone or tank mixed with adulticides, consistently provided 2-3 weeks or more control of silverleaf whitefly in commercial trials. A renewal of the Section 18 is expected for CA and AZ in 1998 with full registration in 1999.