



 **PREV-AM**[®]
ULTRA

CONTROL OF WHITEFLY

PREV-AM® ULTRA is a 3-in-1 insecticide, miticide and fungicide that is very effective in controlling whitefly infestations, including the Type Q biotype, in a wide variety of crops. It's physical mode of action prevents the development of resistance, unlike what Type Q whiteflies have done against many conventional pesticides. It is a contact pesticide that can be applied throughout the season alone or in combination with residual insecticides. PREV-AM provides a quick knockdown that is perfect for controlling pre-harvest insect, mite and disease infestations.

BENEFITS OF PREV-AM MODE OF ACTION

- Provides contact control resulting in a quick knockdown
- Is ideally suited for IPM and sustainable farming practices
- Because it has no residual efficacy it can be managed to protect bees and beneficial predators

PREV-AM ULTRA PROVIDES:

- Contact control of insects include whiteflies, aphids, mites, thrips, and other insect pests.
- Control of diseases include, powdery and downy mildew, late blight, Botrytis and more
- A key component in a resistance management spray program
- An ideal tank mix partner for residual pesticides:
 1. Provides contact knockdown before residual pesticides become active
 2. Excellent wetting properties improves efficacy of systemic and translaminar pesticides
 3. No need to add additional surfactants to a PREV-AM tank mix
 4. Odor masking qualities
- A non-residual pesticide that can be managed to protect bees and pollinators
- A MRL exemption for pre-harvest rescue of insect, mite or disease infestations

WHITEFLY FACTS

***BEMISIA TABICI*: TYPE B vs Type Q**

While Type B whiteflies out competes Type Q in the absence of insecticides, Q out-competes B in the presence of many traditional insecticides. The major problem facing growers is that the Q biotype is resistant or tolerant to many of our commonly used insecticides, including the neonicotinoids, the pyrethroids and insect growth regulators. Thus, if both biotypes are present and traditional insecticides (including neonicotinoids, pyrethroids and insect growth regulators) are applied the Q biotype is not being controlled and within a few weeks of the season, the Type Q growth will outpace Type B.

INDEPENDENT STUDY 1

EFFICACY OF PREV-AM AGAINST WHITEFLY TYPE Q NYMPHS

TARGET	Whitefly Type Q (<i>Bemisia tabaci biotype Q</i>)	LOCATION	Cabrils, Barcelona, Spain
TRIAL DATE	June 2006	RESEARCHER	IRTA Cabrils

BACKGROUND

Spain is one of the areas in the world where Type Q has significantly out competed the Type B from long-term use of organophosphates, pyrethroids and growth regulators. IRTA is a leading Spanish government organization that conducts research on agricultural issues. These efficacy tests were done in the laboratory so applications, rates and results could be controlled and replicated.

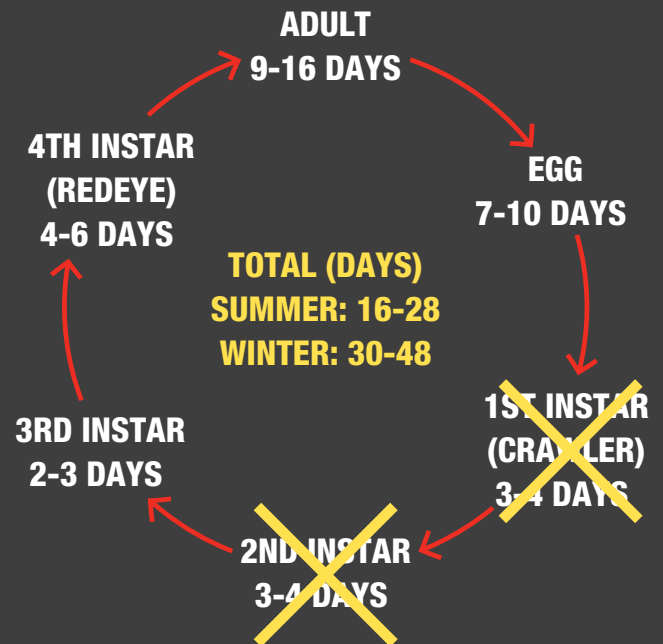
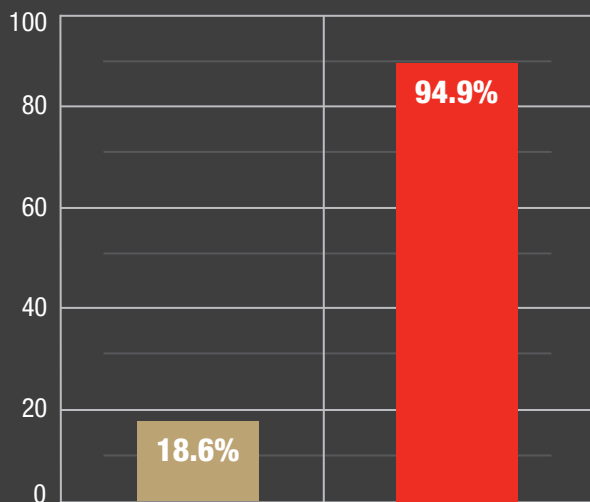
RESULTS

PREV-AM had a 97.62% kill rate against the 1st and 2nd instar nymph stages with 1 application of PREV-AM at 0.4%. (Count done 3 days after application).

CONCLUSION: PREV-AM is an effective tool for severely disrupting the Type Q whitefly life cycle leading to population collapse.

MORTALITY OF WHITEFLY TYPE Q NYMPHS

■ Untreated ■ PREV-AM 0.4% (50 oz./100 gal.)



INDEPENDENT STUDY 2

THE EFFICACY OF PREV-AM FOR THE CONTROL OF WHITEFLY IN GREENHOUSE TOMATOES

TARGET	Whitefly (<i>Trialeurodes vaporariorum</i>)	LOCATION	Los Palacios y Villafranca, Sevilla, Spain
TRIAL DATE	January 2005	RESEARCHER	J. Baglietto - NUFARM ESPANA S.A.

APPLICATION

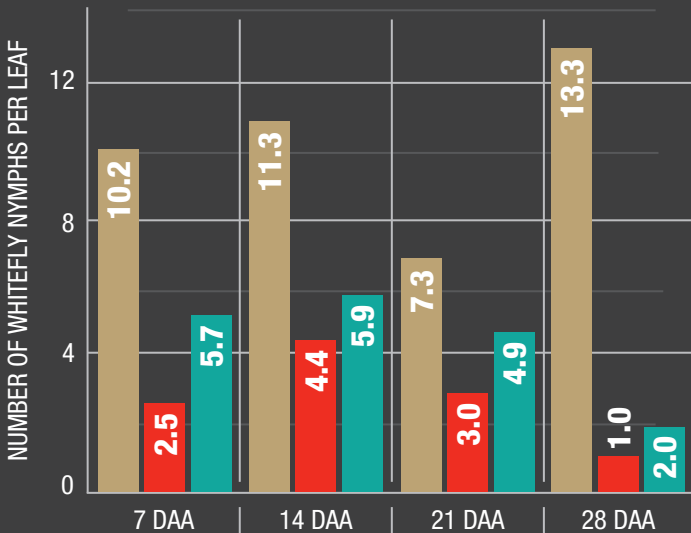
The plot unit in the greenhouse was a randomized complete block design with 4 replications. Treatments were applied using a motorized backpack sprayer equipped delivering a spray volume of 70 gallons of water per acre. Assessments were carried out on 10 leaves picked from 10 plants per plot.

RESULTS

PREV-AM alone, applied at weekly intervals over seven successive dates, demonstrated superior performance compared to a Lambda-cyhalothrin + Mancozeb tank mixture applied at 14 day intervals.

NUMBER OF WHITEFLY NYMPHS PER LEAF

■ Untreated ■ PREV-AM 0.4% ■ Lambda-cyhalothrin 8 oz.



PERCENTAGE OF WHITEFLY CONTROL

■ Untreated ■ PREV-AM 0.4% ■ Lambda-cyhalothrin 8 oz.

