

Notes from Conference Call about Current Q-Biotype Whitefly Research on Ornamental Crops

Participants: Jim Bethke, Ray Cloyd, Todd Eugene, Dan Gilrein, Scott Ludwig, Charlie Meister, Satoru Miyazaki, Cristi Palmer, Mike Parrella, Becky Sisco

Current States with Confirmed Q populations: AZ, CA, GA, MI, NY, OR
States with Samples to be Tested: FL, MD, TX

Ornamental Horticulture Plants with Identified Q Populations:

- Gerbera
- Lamium
- Poinsettia (most identified populations)
- Veronica

Quick Summary of Completed Research

Dan – counting immatures – using populations in grower greenhouse

Marathon 1.7 oz – did not work

Distance 8 oz – did not work – but may need to look at later stages

Flagship 2 oz - suppression

Judo 8 oz – did provide control

Safari 8 oz – did provide control

Jim – using clip cages and counting emerged adults

Summary of 4 trials

Talus – did not work

Talstar – suppression (40% mortality)

Tame – did not work

Dursban – did not work

Avid – did work

Avid + Talstar – worked (100% control)

Judo – worked

Sanmite – worked

Distance – worked (most other data looks at egg stage with leaf dips, not the best indication for how well an IGR will perform)

Other reports of resistant whiteflies:

Mike reported on a test demonstrating *Trialeurodes* may be gaining tolerance to neonicotinoids

Foliar applications

Marathon – did not work

Judo – did work

Pedestal – did work

Talus – did work
Marathon + Judo – was okay

Areas of additional research

1) Other products to test (Please see accompanying draft protocol) :

Organophosphate + Pyrethroid combinations

Avid + Pyrethroid combinations

Aria

Endeavor

Milstop

Orthene + Tame (Need to generate data to register in CA)

Tolfenpyrad

Pedestal

Adept

BW 420

NNI-0101

DPX-E2Y45

Botanigard (some positive results on other whiteflies)

Metarhizium

Horticultural Oil

M-pede Insecticidal Soap

Jojoba Oil

E-rase

Q-cide

Hexacide (rosemary oil)

Akari (CLP needs to contact SePro – done – little to no activity – SePro would not endorse this research)

2) Impact of various chemistries on *Eretmocerus*

Distance, Talus, Endeavor are known to be compatible with *Eretmocerus*.

For Avid, the data set needs to be clarified.

It is not known (at least to me) what impact Judo, Azatin, and others on the above list might have. More research into this is warranted, whether compiling already conducted studies or conducting the impact studies.

3) Research comparing product efficacy on both B and Q populations.

Not in the same experiment, but generated in companion studies using the same materials and methods. It will be useful to be able to tell growers whether X, Y, and Z products work on both species.