## EFFECT OF COMMON VEGETABLE PLANTS ON THRIPS ABUNDANCE AND TOMATO CHLOROTIC SPOT VIRUS (TCSV) INCIDENCE IN TOMATO FIELD



## Background:

- TCSV is a new tospovirus in tomatoes, transmitted by thrips
- Mostly all vegetable crops cultivated in Miami-Dade county are the host of thrips
- Vegetable plants need to check for TCSV and TCSV vector thrips











Larva of thrips

Western flower thrips

Chilli thrips

Common blossom thrips

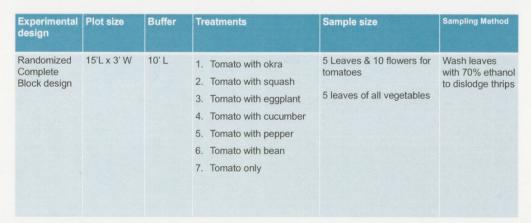


Onion thrips

Thrips species in vegetable crops in Miami-Dade county

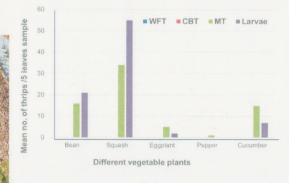
## **Present Field Study at TREC**

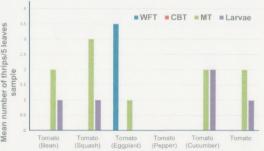
- · Tomato variety Sanibel
- · Vegetables- okra, squash, eggplant, cucumber, pepper, bean
- Planting date 12/20/2017
- Evaluation of treatments- Incidence of TCSV and thrips; and marketable yield per treatment



## Results:

- TCSV and thrips pressure is low in tomatoes
- · In all samples, Melon thrips are common





Tomato plants planted with different vegetable

Experimental plot with tomato and vegetable crop

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