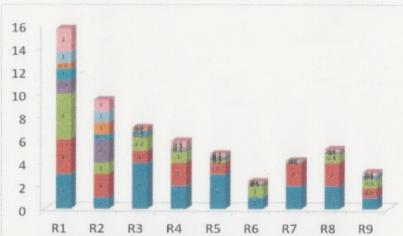


EFFECT OF WEED SPECIES ON THrips ABUNDANCE AND TOMATO CHLOROTIC SPOT VIRUS (TCSV) INCIDENCE IN TOMATO FIELD

Background:

- Observed of 5 commercial tomato growing areas
- Observed the incidence of TCSV and Thrips species
- Observed the alternative host of thrips and TCSV (weeds)



Thrips and TCSV abundance in a commercial tomato field

Weed species, abundance and no. thrips in each weed sample out side the field and TCSV infected tomato plants

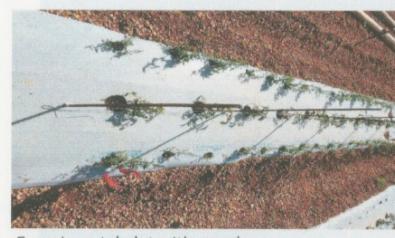


5 commercial fields - 46 species of weeds, 18 families

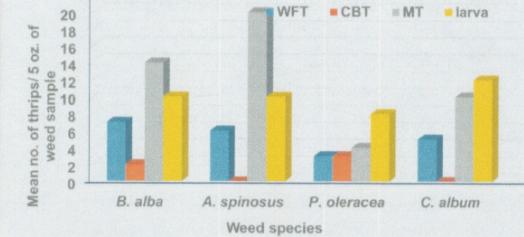


Present Field Study at TREC

Experimental design	Plot size	Buffer	Treatments	Sample size	Separation of thrips
Randomized Complete Block design	15' L x 6' W	5' L	1. Tomato + <i>Amaranthus polygonoides</i> 2. Tomato + <i>Bidens alba</i> 3. Tomato + <i>Amaranthus spinosus</i> 4. Tomato + <i>Oxalis latifolia</i> 5. Tomato + <i>Portulaca oleracea</i> 6. Tomato + <i>Parthenium hysterophorus</i> 7. Tomato + <i>Chenopodium album</i> 8. Tomato	5 leaves and 10 flowers for tomatoes 0.5 oz. weed leaves and flowers	Washed with 70% ethanol to separate thrips



Results



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