Evaluation of Fungicides, Bio-Pesticides, Soil Fumigants and Soil Amendments for the Control of Southern Blight in Processing Tomatoes

or

How Things Really Happen in Agricultural Research

Joe Nunez, UCCE Farm Advisor Bakersfield, CA
Southern Blight of Tomatoes

*Sclerotium rolfsii*
Metam Trial
1. Control
2. Metam 15 gal/A
3. Metam 30 gal/A
4. Metam 45 gal/A
5. Metam 60 gal/A
6. Metam 75 gal/A

Fungicide Trial
1. Control
2. Quadris & Cannonball & Actigard
3. TebuStar
4. TebuStar
5. Convoy
6. Convoy & TebuStar

Lime Trial
1. Control
2. Lime 3 tons/A
3. Lime & tebuconazole
4. Lime & Actinovate & Serenade

Biological Trial
1. Control
2. RootSheild & Soilguard & Tenet
3. T-1
4. T-2
5. T-5
6. T-6
7. Actinovate & Actigard & Serenade Soil & Tenet
8. T-1 & T-2 & T-5 & T-6

SAR Trial
1. Control
2. Actigard & Serenade Soil & WECO-Boost
3. Double Nickel & Sil-Matrix
4. Actigard and Companion & WECO-Boost
5. SiTKo & Actigard & Companion

Variety Trial
1. SUN 6366
2. H-8504
3. H-5608
4. H-2401
5. DR-1319
6. H-3402
7. H-5508
8. H-1015
9. N-6404

SAR Plus Fungicide Trial
1. Control
2. Actigard & Tebuconazole

7 trials, 40 treatments, 168 plots
Results...lots of dead plants due to Curly Top
2010 Cucumber Mosaic Virus Trial

1. Control
2. Black
3. Silver reflective
4. Silver
5. White
6. Green
7. Red
8. Surround Canopy
9. Surround Soil
Surround on Soil Surface
Surround on Canopy
Number of Aphids

Total Aphids for Season

1. Control
2. Black
3. Silver reflective
4. Silver
5. White
6. Green
7. Red
8. Surround Canopy
9. Surround Soil

Number of Aphids

1. Control
2. Black
3. Silver reflective
4. Silver
5. White
6. Green
7. Red
8. Surround Canopy
9. Surround Soil

abcd bc cd cd bc cd cd cd cd
Number of Thrips

- Control
- Black
- Silver reflective
- Silver
- White
- Green
- Red
- Surround Canopy
- Surround Soil

Total Thrips for Season

1. Control
2. Black
3. Silver reflective
4. Silver
5. White
6. Green
7. Red
8. Surround Canopy
9. Surround Soil

Legend:
- a
- b
- bcde
- cde
- de
- bcd
- bcde
- e
- bc

Mean separation is by the Tukey test at the 5% level of significance.
Beet Leafhopper Counts

Control: 180
Green: 80
Silver: 10
Surround: 20

10/26/2015
11/2/2015
Beet Leafhopper Counts from 10/19/15 to 11/16/15

- Control: 350
- Green: 200
- Silver: 50
- Surround: 100