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Effects of spray programs in control of bacterial spot in tomato

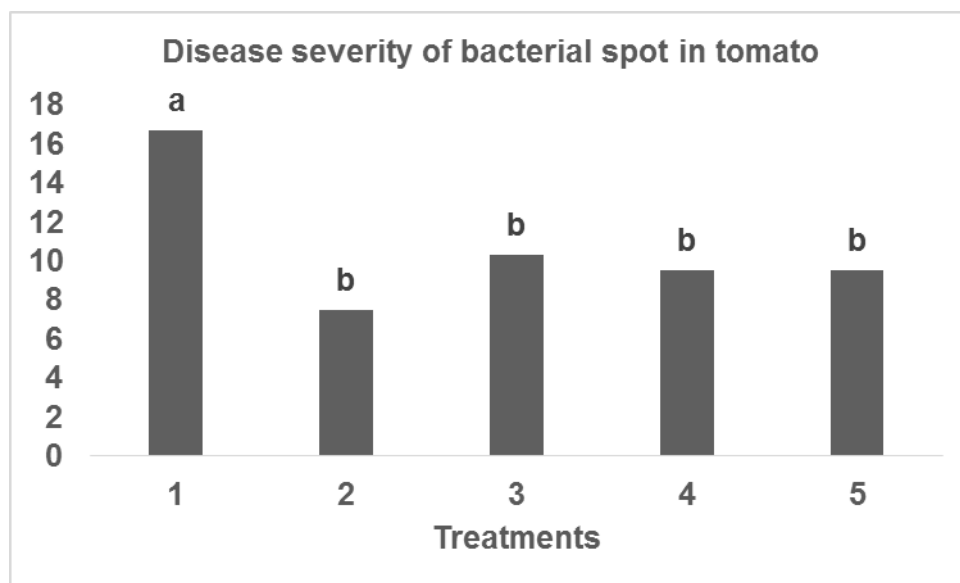
Spray programs and application schedule

Spray schedule	Trt.2	Trt.3	Trt.4	Trt.5
A	Actigard @ 0.5 oz/A	Leap @ 1 qt/A	Leap @ 1 qt/A	Tanos @8 oz/A + Kocide @ 1.75 lb/A
B	Actigard @ 0.5 oz/A	Mankocide @ 2 lb/A	Leap @ 1 qt/A	BWS @ 2 pt/A
C	Leap @ 1 qt/A	Leap @ 1 qt/A	Leap @ 1 qt/A	Tanos @8 oz/A + Kocide @ 1.75 lb/A
D	Mankocide @ 2 lb/A	Mankocide @ 2 lb/A	Leap @ 1 qt/A	BWS @ 2 pt/A
E	Leap @ 1 qt/A	Leap @ 1 qt/A	Leap @ 1 qt/A	Tanos @8 oz/A + Kocide @ 1.75 lb/A
F	Mankocide @ 2 lb/A	Mankocide @ 2 lb/A	Leap @ 1 qt/A	BWS @ 2 pt/A
G	Leap @ 1 qt/A	Leap @ 1 qt/A	Leap @ 1 qt/A	Tanos @8 oz/A + Kocide @ 1.75 lb/A
H	Mankocide @ 2 lb/A	Mankocide @ 2 lb/A	Leap @ 1 qt/A	BWS @ 2 pt/A

RESULTS

- Five sprays for each treatment have been applied.
- Disease severity of bacteria spot were 16.7%, 7.5%, 10.3%, 9.5%, and 9.5% for treatments 1 to 5, respectively.
- Disease severity in all four programs tested were significantly lower than that of treatment 1, the inoculated untreated control.

The trial is still in process. Current results indicate that all four treatments have significant effects against bacterial spot in tomato.



Values with same letter were not significantly different at $P = 0.05$.

Note:

- Treatment 1 is inoculated untreated control.
- Tomato cultivar is Florida 47.
- Seedlings were transplanted on 11/20/2017.
- Foliar application started on 12/13/2017.
- Plants were inoculated on 1/3/2018 with a copper-sensitive *Xanthomonas perforans* strain at 5×10^7 cfu/ml.