TOMATO (*Lycopersicon esculentum*)
Bacterial spot; *Xanthomonas perforans*

G. E. Vallad
Department of Plant Pathology
University of Florida, GCREC
Wimauma, FL 33598

On-farm assessment of copper-alternatives and Actigard for controlling bacterial spot on tomatoes, fall 2012.

Treatment, rate/100 gal[w]	Bacterial Spot Severity (%)[x]:		
	23-Oct	**5-Nov**	**AUDPC**[y]
Synbiont, 24 floz……………………………………	55.0 ab[z]	71.4 ab	1644 ab
Synbiont, 48 floz……………………………………	48.4 ab	71.4 ab	1496 abc
Synbiont, 96 floz……………………………………	48.4 ab	76.3 ab	1530 abc
Synbiont, 124 floz…………………………………	48.4 ab	66.8 abc	1472 abc
Synbiont (2x), 48 floz; Actigard, 0.75 oz…………..	35.7 b	62.8 bc	1167 bc
Synbiont (2x), 96 floz; Actigard, 0.75 oz…………..	40.6 b	81.5 a	1422 abc
Synbiont (2x), 48 floz………………………………	48.4 ab	71.4 ab	1506 abc
Synbiont (2x), 96 floz………………………………	66.8 a	83.8 a	1973 a
Actigard, 0.75 oz……………………………………	18.5 c	37.5 d	632 d
Kocide 3000, 1.5 lb; Penncozeb, 1.25 lb…………..	37.5 b	55.0 c	1161 c
Water-treated Control………………………………	48.4 ab	66.8 abc	1472 abc
Non-treated Control………………………………..	55.0 ab	62.5 bc	1592 abc
P =	*0.0004*	*< 0.0001*	*< 0.0001*

[w] Listed treatment rates are on a per 100 gal basis unless noted otherwise. Treatments were applied weekly or twice weekly (2x).

[x] The severity of bacterial spot was assessed as the percentage of canopy affected. The Horsfall-Barratt scale was used for all ratings, but values were converted to mid-percentages prior to statistical analyses.

[y] Area under the disease progress curve (AUDPC) values were calculated using the formula: $\Sigma([(x_i+x_{i-1})/2](t_i-t_{i-1}))$ where x_i is the rating at each evaluation time and (t_i-t_{i-1}) is the time between evaluations.

[z] Means followed by the same letter are not significantly different according to Fisher's LSD test ($\alpha=0.05$)