

Comparison of bactericides for controlling bacterial spot on bell peppers, fall 2011.

Treatment, rate/A (application) ^z	Bacterial spot severity (%) ^y				Diseased fruit		Marketable fruit	
	29 Nov	5 Dec	14 Dec	AUDPC ^x	Number /plot	Weight (lb/plot)	Number /plot	Weight (lb/plot)
Cuprofix, 2 lb (1-7); FeCl ₃ ·6H ₂ O, 3.5oz/100 gal.....	16.9 cd ^w	31.2 abc	34.3 b-e	369 b-e	8.33	2.33	57.7 abc	17.7 ab
Cuprofix, 2 lb (1-7); FeCl ₃ ·6H ₂ O, 4.5oz/100 gal.....	18.5 cd	28.0 bcd	28.0 def	322 d-g	8.00	2.23	60.3 a	15.7 a-e
Cuprofix, 2 lb (1-7); FeCl ₃ ·6H ₂ O, 5.5oz/100 gal.....	21.7 bcd	21.7 de	31.2 c-f	303 efg	11.5	3.04	41.7 d-g	11.6 efg
Cuprofix, 2 lb (1-7); FeCl ₃ ·6H ₂ O, 6.5oz/100 gal.....	13.8 d	21.7 de	28.0 def	277 efg	8.67	2.71	48.3 a-g	14.9 a-f
Cuprofix, 2 lb (1-7); Penncozeb 75DF, 0.5 lb (1-7).....	16.9 cd	23.3 cde	34.3 b-e	319 efg	5.50	1.79	58.8 ab	18.8 a
FeCl ₃ ·6H ₂ O, 6.5oz/100 gal.....	28.0 ab	34.3 ab	45.8 a	454 ab	11.3	3.25	43.3 c-g	12.5 c-g
Sereande Max, 1 lb (1-7); Kocide 3000, 1.75lb (1-7).....	24.8 abc	28.0 bcd	34.3 b-e	359 c-f	7.83	2.31	59.3 ab	17.4 ab
QRD146, 0.5 lb (1-7); Kocide 3000, 1.75 lb (1-7).....	18.9 cd	21.7 de	31.2 c-f	296 efg	7.33	2.10	53.5 a-e	16.1 a-e
QRD146, 0.75 lb (1-7); Kocide 3000, 1.75 lb (1-7).....	15.3 d	20.1 de	28.0 def	270 fg	5.33	1.75	51.8 a-f	15.1 a-f
QRD146, 1 lb (1-7); Kocide 3000, 1.75 lb (1-7).....	13.8 d	21.7 de	21.7 f	248 g	9.83	3.08	57.2 abc	16.3 a-e
Kocide 3000, 1.75 lb (1-7).....	18.5 cd	23.3 cde	24.8 ef	279 efg	8.67	2.81	56.0 a-d	17.3 abc
Nordox, 2 lb (1-7)	13.8 d	18.5 e	24.8 ef	243 g	5.83	1.73	52.5 a-f	15.4 a-f
Cuprofix, 2 lb (1-7)	15.3 d	24.8 cde	31.2 c-f	312 efg	8.50	2.75	55.5 a-d	16.5 a-d
SeaCide, 2% v/v (1-7).....	31.2 a	37.5 a	41.7 abc	459 a	9.83	3.15	38.0 fg	9.96 g
SeaCide, 1% v/v (1-7); Kocide 3000, 1.5 lb (1-7); Penncozeb, 1 lb (1-7).....	24.8 abc	34.3 ab	37.5 a-d	412 a-d	12.7	4.04	43.0 c-g	12.1 d-g
Previcur Flex, 19.2 fl oz (Drench at transplanting); Admire Pro, 7 fl oz (Drench at transplanting).....	28.0 ab	37.5 a	37.5 a-d	436 abc	7.33	2.48	44.7 b-g	13.5 b-g
BYI 2960, 21 oz (Drench at transplanting).....	24.8 abc	34.3 ab	42.7 ab	435 abc	8.83	2.69	38.8 efg	10.8 fg
Untreated control.....	31.2 a	37.5 a	41.7 abc	459 a	12.0	3.69	35.7 g	10.9 fg
<i>P > F</i>	< 0.0001	< 0.0001	0.0002	< 0.0001	0.1977	0.3446	0.0093	0.0025

^z Listed treatments were applied weekly (1-7) on a per acre rate basis unless noted otherwise.

^y 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.

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

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