

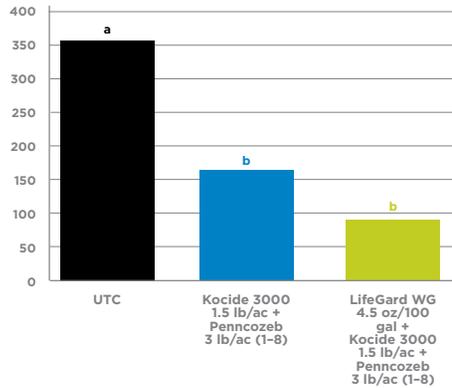
BACTERICIDES

GREAT LAKES REGION

PRODUCT	ACTIVE INGREDIENT	DESCRIPTION	CROPS	PEST	RATES	NOTES
	<i>Bacillus mycoides</i> isolate J	The first in a new class of biological disease control solutions that switches on the plant's built-in immune defenses to help fight against bacterial, viral and fungal diseases.	Fruiting Veg	Bacterial Speck	1-4.5oz/100gal	
			Onions	Bacterial Bulb Rot	1-4.5oz/100gal	
	<i>Bacillus amyloliquefaciens</i> strain D747 (BaD747)	A broad spectrum fungicide boasting five modes of action to control foliar and soil born bacterial and fungal diseases.	Fruiting Veg	Bacterial Speck	1-2qts/acre .5-1lb/acre	
			Leafy Veg	Bacterial Blights	1-2qts/acre .5-1lb/acre	
	<i>Bacteriophage</i>	A bacteriophage (virus) which attacks Erwinia amylovora on apples and pears.	Fruiting Veg	Bacterial Speck	1-2 pints/acre	
			Tomato	Tomato Speck	1-2 pints/acre	
			Peppers	Tomato & Pepper Spot	1-2 pints/acre	
	<i>Bacteriophage</i>	A bacteriophage product used for biological control of bacterial canker disease on tomatoes.	Tomato	Bacterial Canker Disease	1-2 pints/acre	
	<i>Copper Hydroxide</i>	A trusted, proven and reliable copper hydroxide containing bioactive technology for better control of diseases at lower rates.	Fruiting Veg	Bacterial Speck	.75-1.5lbs/acre	
			Celery	Bacterial Blight	.75-1.25lbs/acre	
			Onion	Bacterial Blight	.75-1.5lbs/acre	
			Cucurbit	Angular Leaf Spot	.75-1.25lbs/acre	
			Parsley	Bacterial Blight	1.25 - 2.0 lbs/acre	
	<i>Copper octanoate</i>	A "copper soap" that provides the efficacy of coppers with a reduced risk of russet and phytotoxicity.	Fruiting Veg	Bacterial Speck	1-2 qts/acre	
			Crucifer Crops	Bacterial Leaf Spot	1-2 qts/acre	
			Cucurbit	Angular Leaf Spot	1-2 qts/acre	
			Herbs (see label)	Bacterial Blight	1-2 qts/acre	
			Leafy Veg	Bacterial Soft Rot	1-2 qts/acre	
			Onion	Bacterial Soft Rot	1-2 qts/acre	

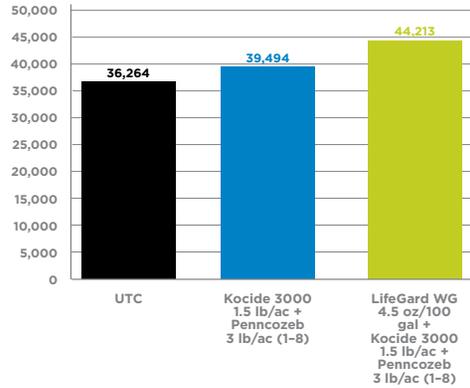
Bacterial spot (Xanthomonas perforans)

Means sharing the same letter are NSD at P = 0.05



Marketable yield (lbs/ac)

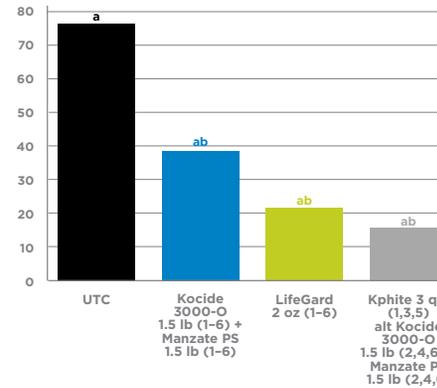
Means were NSD at P = 0.05



- Variety: BHN 410
- 8 applications made beginning 4 June - approx. weekly intervals @ 20 GPA
- Cooperator - D. Egel Purdue University

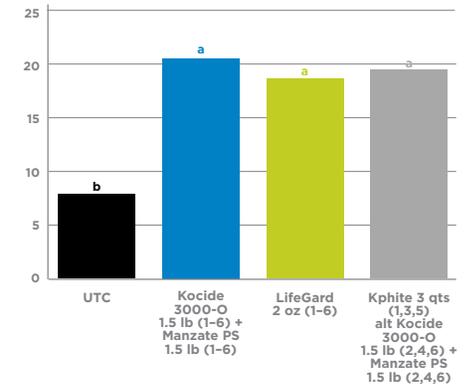
% Bulb rots (Pantoea sp.)

Means sharing the same letter are NSD @ P = 0.05



Marketable yield (lbs./plot)

Means sharing the same letter are NSD @ P = 0.05



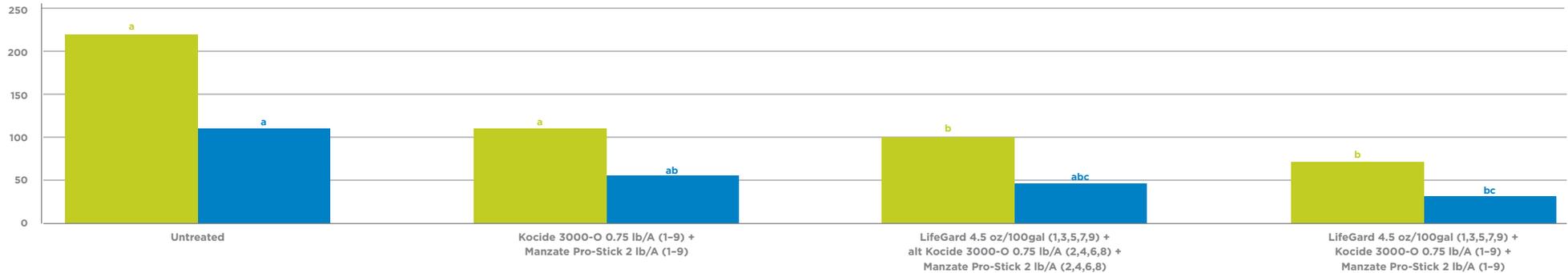
- Treatments: 6 applications on 7 day intervals.
- Apps made using backpack sprayer calibrated to deliver 60 gal/ac.
- Cooperator: B. Dutta, Univ. GA

TOMATO var. Mt. Fresh

Bacterial speck (Pseudomonas syringae)

Means sharing the same letter are NSD at P = 0.05

■ AUDPC - Incidence ■ AUDPC - Severity



- Application: 9 applications on 7 day intervals from Jul. 15th- Sep. 9th
- Plots were inoculated with diseased plants between replicates to spread infection.
- All products applied via backpack boom sprayer delivering 82 gal/ac at 55 psi.
- Cooperator: M. McGrath, Cornell Univ.