

Table 2. Efficacy of biochemical biopesticides and organic copper products in experiments published in Plant Disease Management Reports (# times effective/total # experiments in which product was tested)

Crop Type or Crop	Disease	EF 400	M-Pede	MilStop	Organocide	OSO/ polyoxin D	OxiDate	Procidic	Regalia	Sil-Matrix	Sporan	Sporatec	Timorex Gold/ACT	Trilogy/Neem Oil	Zonix	copper
Basil	Downy mildew			1/2	0/2	0/1	1/3	0/2	2/4	0/1		0/1	0/1	1/1		3/8
Bean, snap	White mold															0/1
Beet	Cercospora leaf spot								1/1							1/1
Brassica crops	Alternaria leaf spot	0/1							0/3			0/1				2/3
	Black rot						0/1		1/2							4/5
	Downy mildew								1/1							2/3
Carrot	Alternaria leaf blight															1/1
Cucurbit crops	Anthracnose						1/1		0/1							
	Angular and bacterial leaf spots						0/1									1/1
	Bacterial spot								2/2							1/1
	Downy mildew						3/7		2/7	1/1	0/1	2/4	3/5	1/1	4/4	1/4
	Gummy stem blight								0/2				1/1			
	Powdery mildew		2/2	5/6	5/6	1/1	4/7		10/17	0/1	1/3	1/1	1/3	2/2		10/13
Lettuce	Downy mildew					1/1	1/1		3/3							
	Drop (<i>Sclerotinia minor</i> and/or <i>S. sclerotiorum</i>)					1/1		2/2	1/1	4/4			2/2			
	Powdery mildew					1/1	1/1		2/2	2/2						
Onion	Botrytis leaf blight					0/1										
	Center rot						0/1									1/1
	Stemphylium leaf blight					1/1								0/1		0/1

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Pea	Damping-off															2/2
Pepper	Anthracnose						1/1									
	Bacterial leaf spot						0/1		0/2							
Potato	Black scurf								2/2							
	Early blight	0/1	1/1						1/2							
	Late blight								1/1							
	Silver scurf, black dot								0/1							
Spinach	Anthracnose						0/1									
	Damping off (<i>Rhizoctonia</i> and <i>Fusarium</i>)						1/1									
	Downy mildew						1/2	1/2		0/1			1/1		0/1	2/2
	White rust						0/1									
Tomato	Anthracnose								0/1							
	Bacterial canker															1/1
	Bacterial speck						2/2		2/2							2/3
	Bacterial spot	0/1					0/1		2/5							5/10
	Early blight	0/1					0/3					1/2	0/2			2/3
	Gray mold						0/1		0/2							
	Late blight	1/1													0/1	1/1
	Leaf mold (high tunnel)						2/2		2/2						2/2	2/2
	Powdery mildew			0/1	1/1				1/1			1/1	2/3			1/3
Septoria leaf spot			0/1	1/2				1/2			0/2	0/1			1/4	

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Turnip	Black leg								0/1							
	Light leaf spot								0/1							
	White leaf spot								1/1							

^a Reports published from 2007 to spring 2021. Results are for biopesticides tested alone, not in a program with other products. Biopesticide considered effective if disease severity significantly less than non-treated control for at least one assessment. A few biopesticides that were only found evaluated in one report were not included.

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Updated June 2021*