




We deliver a full line of biological solutions to control pests, prevent disease and improve plant health. For organic and conventional production, our products help you improve yield and grow the highest quality cucumbers.



**BioWorks®**  
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# CROP GUIDE GREENHOUSE CUCUMBERS

		PEST/DEFICIENCY	CROP STAGE			
			SEED	SEEDLING (3-5 LEAVES)	VEGETATIVE STAGE	FRUIT PRODUCTION STAGE
DISEASES		Soilborne Diseases	RootShield® PLUS <sup>+</sup> WP			
		Powdery Mildew		CEASE®, MilStop® SP	MilStop SP + CEASE, PERpose Plus®	
		Downy Mildew				
		Botrytis		CEASE	BotryStop® WP, MilStop + CEASE	
		Gummy Stem Blight		CEASE		
INSECTS / MITES		Aphids, Whiteflies, Thrips		Molt-X®, SuffOil-X®, EpiShield™		
		Lepidopterans		SuffOil-X, Molt-X		
		Tarnished Plant Bugs				
		Cucumber Beetles	NemaShield® HB, Molt-X			
		Fungus Gnats, Shore Flies	NemaShield, Molt-X			
		Mites	SuffOil-X, EpiShield			
NUTRITION		Efficient nutrient use and stress reduction	ON-Gard®			
		Calcium (Ca) deficiency		ON-Gard CALCIUM		



ABOVE AND BEYOND IS WHERE WE BEGIN

# CROP GUIDE GREENHOUSE CUCUMBERS

	PRODUCT	REI, PHI	OMRI	PEST/DEFICIENCY	RECOMMENDED RATE	TYPE OF APPLICATION
DISEASES 	RootShield PLUS <sup>+</sup> WP <sup>2</sup>	4-hour 0-day	Yes	<i>Pythium</i> , <i>Fusarium</i> , <i>Phytophthora</i> , <i>Rhizoctonia</i> , Damping Off	Drench: 4-8 oz/100 gal	Drench at seeding and reapply prior to transplant. Reapply at 4-6-week intervals.
	MilStop SP	1-hour 0-day	Yes	Powdery Mildew, Downy Mildew, <i>Botrytis</i>	1.25-5.0 lb/100 gal	Foliar application every 7-14 days. Tank mix rates: CEASE 4-6 qt/100 gal + MilStop SP 1.25-3 lb/100 gal.
	CEASE	4-hour 0-day	Yes	Gummy Stem Blight, <i>Botrytis</i> , Powdery Mildew, Downy Mildew	4-6 qt/100 gal	Foliar application every 3-7 days.
	PERpose Plus <sup>1</sup>	0-1-hour 0-day	Yes	Powdery Mildew, Downy Mildew, <i>Botrytis</i>	1/3-1 fl oz/gal	1/3 fl oz/gal preventative foliar application weekly; 1 fl oz/gal curative application.
	BotryStop WP <sup>4</sup>	4-hour 0-day	Yes	<i>Botrytis</i>	2-4 lb/100 gal	Foliar application every 7-10 days.
INSECTS / MITES 	Molt-X <sup>2</sup>	4-hour 0-day	Yes	Aphids, Thrips, Lepidopterans, Tarnished Plant Bug (Lygus), Whiteflies	8-10 fl oz/100 gal	Foliar spray to glisten on a 7-10-day interval or as needed.
	SuffOil-X	4-hour 0-day	Yes	Mites, Whiteflies, Aphids, Thrips	1-2 gal/100 gal	Foliar application every 7 days. Suppresses powdery mildew.
	EpiShield	N/A	No	Mites, Aphids, Thrips, Whiteflies, Mealybugs	9-12 fl oz/100 gal	Foliar spray to glisten on 5-7-day interval or as needed.
	NemaShield HB	N/A	N/A	Cucumber Beetles	50 million/1000-2000 ft <sup>2</sup>	Apply as a drench to the substrate as needed.
	NemaShield	N/A	N/A	Fungus Gnats, Shore Flies	100 million/1100-3400 ft <sup>2</sup>	Apply as a drench to the substrate as needed.
	Molt-X <sup>2</sup>	4-hour 0-day	Yes		8 fl oz/100 gal	Apply as a drench.
NUTRITION 	ON-Gard (5-0-0) <sup>3</sup>	N/A	Yes	Nutrition supplement and stress reduction	1 qt-2 gal/100 gal	Weekly foliar spray: 1 qt in seedling stage to 2 gal in vegetative & fruiting stages. Fog rates: 6.4-11.2 fl oz/3 L water.
	ON-Gard CALCIUM <sup>3</sup> (1-0-0 + 5% Ca)			Calcium (Ca) deficiency	8-16 fl oz/100 gal	Weekly foliar spray: 8 fl oz in seedling stage to 16 fl oz in vegetative & fruiting stages.

Please refer to product labels for complete application instructions. Always read and follow label directions.

<sup>1</sup>Not available for use in CA; <sup>2</sup>Not available for use in AK; <sup>3</sup>Not labeled for use in MT, ND, SD, WY. <sup>4</sup>BotryStop WP not labeled for use on cucumber in CA

Please refer to product labels **bioworksinc.com** for fogging application details and rates.