



Greenhouse Cucumbers

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

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

	PRODUCT	REI, PHI	ORGANIC INPUT	PEST/DEFICIENCY	RECOMMENDED RATE	TYPE OF APPLICATION
DISEASES	RootShield® PLUS+ WP	4-hour, 0-day	OMRI	Damping Off, Pythium, Fusarium, Phytophthora	4-8 oz/100 gal	Drench at seeding and transplant; reapply at 4-6 week intervals.
	CEASE®	4-hour, 0-day	OMRI	Gummy Stem Blight	4-6 qt/100 gal	Foliar application every 3-7 days.
	MilStop® SP	1-hour, 0-day	OMRI	Powdery Mildew, Downy Mildew, Botrytis	1.25-5 lb/100 gal	Foliar application 7-14 days. Tank mix rates: CEASE 4-6qt/100gal + MilStop SP 1.25-3 lb/100 gal.
	PERpose Plus®	0-1-hour, 0-day	OMRI		1/3-1 fl oz/gal	1/3 fl oz/gal preventative foliar application weekly; 1 fl oz/gal curative application.
	BotryStop® WP (BotryStop® in CA)	4-hour, 0-day	OMRI	Botrytis	2-4 lb/100 gal	Foliar application every 7-10 days.
INSECTS / MITES	Molt-X®	4-hour, 0-day	OMRI	Aphids, Thrips, Lepidopterans, Tarnished Plant Bug (Lygus), Whiteflies	8-10 fl oz/100 gal	For foliar application.
	NemaShield® HB	N/A	N/A	Cucumber Beetles	100-300 million/100 gal	Apply as a drench to the substrate near the stem as needed.
	NemaShield®	N/A	N/A	Fungus Gnats, Shore Flies	100-300 million/100 gal	Apply as a drench to the substrate as needed.
	Molt-X®	4-hour, 0-day	OMRI		8 fl oz/100 gal	Apply as a drench.
	SuffOil-X®	4-hour, 0-day	OMRI	Mites, Aphids, Whiteflies, Thrips	1-2% v/v	Apply every 7 days. Suppresses powdery mildew.
NUTRITION	ON-Gard® (5-0-0)	N/A	OMRI	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 (1-0-0 + 5% Ca)			Calcium (Ca) deficiency	Spray: 8-16 fl oz/100 gal Fog: 1.6-5.6 fl oz/3 L	Weekly foliar spray: 8 fl oz in seedling stage to 16 fl oz in vegetative & fruiting stages.
	Verdanta® EcoVita® (7-5-10)			Base or top-dressing fertilization	10-40 lb/1000 ft ²	Incorporate in substrate at 6-9 lb/yd ³ ; or apply as a top dress, placing product near drip emitters.

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



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