





## **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.

**CROP STAGE** PEST/DEFICIENCY SEEDLING **SEED VEGETATIVE STAGE** FRUIT PRODUCTION STAGE (3-5 LEAVES) Soilborne Diseases RootShield PLUS+ WP **Powdery Mildew** CEASE, MilStop SP MilStop SP + CEASE, PERpose Plus **Downy Mildew CEASE** MilStop SP + CEASE, BotryStop **Botrytis Gummy Stem Blight CEASE** BotaniGard + Molt-X, SuffOil-X Aphids, Whiteflies BotaniGard, Molt-X, SuffOil-X **Thrips** Lepidopterans Molt-X, BotaniGard BotaniGard, SuffOil-X Tarnished Plant Bugs SECTS , **Cucumber Beetles** NemaShield HB, BotaniGard MAXX **Fungus Gnats**, NemaShield, BotaniGard MAXX, Molt-X **Shore Flies Spider Mites** SuffOil-X Efficient nutrient use **ON-Gard** and stress reduction ON-Gard CALCIUM Calcium (Ca) deficiency Base fertilizer or top-Verdanta EcoVita dressing fertilization Potassium (K) Verdanta K-Vita, Verdanta PL-2 deficiency Iron (Fe) deficiency **Verdanta OFE** 

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## Greenhouse Cucumbers Crop Guide

PRODUCT	REI	PHI	PEST/DEFICIENCY	RECOMMENDED RATE	TYPE OF APPLICATION
RootShield® PLUS* WP*	4-hour	0-day	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	Gummy Stem Blight	4-6 qt/100 gal	Foliar application every 3-7 days.
MilStop® SP*	1-hour	0-day	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		1/3–1 fl oz/gal	1/3 fl oz/gal preventative foliar application weekly; 1 fl oz/gal curative application.
BotryStop®*	4-hour	0-day	Botrytis	2-4 lb/100 gal	Foliar application every 7-10 days.
BotaniGard® MAXX	12-hour	0-day	Aphids, Thrips, Lepidopterans, Tarnished Plant Bug, Whiteflies	0.5-1 qt/100 gal	Foliar application every 5-10 days.
BotaniGard® / Mycotrol®†	4-hour	0-day		WP: 0.5-2 lb/100 gal	Foliar application every 5-10 days. For thrips use 1-2 lb/100 gal.
				ES: 0.5-2 qt/100 gal	Foliar application every 5-10 days. For thrips use 1-2 qt/100 gal.
Molt-X®*	4-hour	0-day	vviiiteilies	8-10 fl oz/100 gal	For foliar application. In tank mix, use 1/2 rate.
NemaShield® HB	N/A	N/A	Cusumbar Dastilas	100-300 million/100 gal	Apply as a drench to the substrate near the stem as needed.
BotaniGard® MAXX	12-hour	0-day	Cucumber Beetles	0.5-1 qt/100 gal	Apply every 7-10 days as a foliar application to eliminate adults.
NemaShield®	N/A	N/A 0-day	Fungus Gnats, Shore Flies	100-300 million/100 gal	Apply as a drench to the substrate as needed.
Molt-X®*	4-hour			8 fl oz/100 gal	Apply as a drench. In tank mix, use 1/2 rate.
BotaniGard® MAXX	12-hour	0-day		0.5-1 qt/100 gal	Apply every 7-10 days as a foliar treatment to eliminate adults.
SuffOil-X®*	4-hour	0-day	Mites	1-2% v/v	Apply every 7 days. Suppresses powdery mildew.
ON-Gard®* (5-0-0)	N/A	N/A	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 <sup>2</sup>	Incorporate in substrate at 6-9 lb/yd³; or apply as a top dress, placing product near drip emitters.
Verdanta® K-Vita* (2-0-20)			Potassium (K) deficiency	10-16 lb/1000 ft <sup>2</sup>	Optional top dress every 6-8 weeks.
Verdanta® PL-2* (2-0-6)				30-40 fl oz/100 gal	Apply 2 times weekly as a K supplement with low salt index.
Verdanta® OFE (3-0-0 + 3% Fe)			Iron (Fe) deficiency	1 qt/100 gal	Foliar application as needed.

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





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