




We deliver a full line of biological solutions to control pests, prevent disease and improve plant health. Our products help you grow all season and produce the highest quality vegetables and herbs.



**BioWorks®**  
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# CROP GUIDE VEGETABLE TRANSPLANTS & HERBS

	PEST/DEFICIENCY	CROP STAGE		
		SEED/PROPAGATION	SEEDLING (3-5 LEAVES)	VEGETATIVE
<div>DISEASES</div> 	Soilborne Diseases	RootShield® <i>PLUS</i> <sup>+</sup> WP, RootShield PLUS <sup>+</sup> G	RootShield <i>PLUS</i> <sup>+</sup> WP	
	Powdery Mildew, Downy Mildew	PERpose Plus®	MilStop® SP + CEASE®, PERpose Plus	
	<i>Botrytis</i>		BotryStop® WP, MilStop SP + CEASE	
	Bacterial Leaf Spot		PERpose Plus, CEASE	
<div>INSECTS / MITES</div> 	Aphids, Whiteflies, and Thrips	EpiShield®, PRINCIPLE™ WP	Molt-X®, SuffOil-X® <sup>4</sup> , EpiShield, PRINCIPLE WP	
	Fungus Gnats, Shore Flies	NemaShield®	NemaShield, Molt-X	
	Mites	EpiShield	SuffOil-X® <sup>4</sup> , EpiShield	
<div>NUTRITION</div> 	Efficient nutrient use and stress reduction	ON-Gard®		



ABOVE AND BEYOND IS WHERE WE BEGIN

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	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	Damping Off, <i>Pythium</i> , <i>Fusarium</i> , <i>Phytophthora</i> , <i>Rhizoctonia</i>	Drench: 4-8 oz/100 gal	Drench at seeding.
	RootShield PLUS <sup>+</sup> G <sup>2</sup>	4-hour 0-day	Yes		1.5-3 lb/cu yd	Incorporate in potting media.
	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 1.25-3.0 lb/100 gal.
	CEASE	4-hour 0-day	Yes	Bacterial Leaf Spot, Powdery Mildew, Downy Mildew, <i>Botrytis</i>	4-6 qt/100 gal	Foliar application every 3-7 days. Safe for use with young seedlings.
	PERpose Plus	0-1-hour 0-day	Yes		1/3-1 fl oz/gal Mist: 1:1000-1:5000	1/3 fl oz/gal preventative foliar application weekly; 1 fl oz/gal curative application. Mist: Apply 1:1000 or 7-10 days at seeding, continue 1:5000 into propagation.
	BotryStop WP	4-hour 0-day	Yes	<i>Botrytis</i>	2-4 lb/100 gal	Foliar application every 7-10 days.
INSECTS / MITES 	PRINCIPLE WP <sup>1</sup>	4-hour 0-day	Yes	Aphids, Whiteflies, Thrips	0.5-2 lb/100 gal Dip rate: 0.25-0.5 oz/gal	Foliar application every 5-10 days. For thrips use 1-2 lb/100 gal.
	Molt-X <sup>2</sup>	4-hour 0-day	Yes		8-10 fl oz/100 gal	Foliar spray to glisten on a 7-10-day interval or as needed.
	SuffOil-X <sup>4</sup>	4-hour 0-day	Yes	Aphids, Whiteflies, Thrips, Mites	1-2 gal/100 gal	Foliar application every 7 days.
	EpiShield	N/A	No	Mites, Aphids, Thrips, Whiteflies, Mealybugs	Foliar spray 9-12 fl oz/100 gal Dip rate 2.7 ml/gal	Foliar spray to glisten on 5-7-day interval or as needed. Do not exceed 9 fl oz rate in flower. Dip unrooted cuttings for 10-30 seconds while moving plants around in solution.
	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	Drench, sprench, or foliar spray: 1 qt/100 gal	Drench applications at seeding and weekly foliar applications. Fog rates: 6.4-11.2 fl oz/3 L water.

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>SuffOil-X not labeled for use on herbs

Please refer to product labels [bioworksinc.com](https://www.bioworksinc.com) for fogging application details and rates.

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**BIOWORKS, INC.**

100 Rawson Road • Suite 205

Victor, NY 14564

[bioworksinc.com](https://www.bioworksinc.com) • 800.877.9443