




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
DIVISION OF BIOFIRST GROUP

CROP GUIDE VEGETABLE TRANSPLANTS & HERBS

	PEST/DEFICIENCY	CROP STAGE		
		SEED/PROPAGATION	SEEDLING (3-5 LEAVES)	VEGETATIVE
DISEASES 	Soilborne Diseases	RootShield® PLUS+ WP, RootShield PLUS+ G	RootShield PLUS+ 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	
INSECTS / MITES 	Aphids, Whiteflies, and Thrips	EpiShield®, PRINCIPLE™ WP	Molt-X®, SuffOil-X®4, EpiShield, PRINCIPLE WP	
	Fungus Gnats, Shore Flies	NemaShield®	NemaShield, Molt-X	
	Mites	EpiShield	SuffOil-X ⁴ , EpiShield	
NUTRITION 	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 ⁺ WP ²	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 ⁺ G ²	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 ¹	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	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 ²	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 ⁴	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 ²	Apply as a drench to the substrate as needed.
	Molt-X ²	4-hour 0-day	Yes		8 fl oz/100 gal	Apply as a drench.
NUTRITION	ON-Gard (5-0-0) ³	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.

¹Not available for use in CA; ²Not available for use in AK; ³Not labeled for use in MT, ND, SD, WY. ⁴SuffOil-X not labeled for use on herbs

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

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