

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 Spring ornamentals.









BioWorks®
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ABOVE AND BEYOND IS WHERE WE BEGIN

CROP GUIDE SPRING ORNAMENTALS

		PEST/DEFICIENCY	CROP STAGE		
			PROPAGATION, SEEDS, CUTTINGS	VEGETATIVE	FINISHING
DISEASES		Soilborne Diseases	RootShield® PLUS ⁺ WP, RootShield PLUS ⁺ G	RootShield PLUS ⁺ WP	
		Powdery Mildew, Downy Mildew	CEASE®, MilStop® SP, PERpose Plus®	MilStop SP + CEASE, PERpose Plus	
		Fungal Leaf Spot			
		<i>Botrytis</i>	BotryStop® WP, PERpose Plus, CEASE, MilStop SP	BotryStop WP, MilStop SP + CEASE	
		Bacterial Leaf Spot	CEASE, PERpose Plus, BotryStop WP		
INSECTS / MITES		Aphids, Whiteflies, Thrips	EpiShield®, PRINCIPLE™ WP	Molt-X®, SuffOil-X®, EpiShield, PRINCIPLE WP	
		Fungus Gnats, Shore Flies	NemaShield®	NemaShield, Molt-X	
		Mites	EpiShield	SuffOil-X, EpiShield	
		Caterpillars		Molt-X, PRINCIPLE WP	
		Mealybugs	EpiShield	SuffOil-X, EpiShield, Molt-X	
NUTRITION		Efficient nutrient use and stress reduction	ON-Gard®		

	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 Dip (URC): 1.5 oz/5 gal	Drench or Dip at seeding, sticking or transplant. Reapply drench application at 8-10 weeks.
	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> , Fungal Leaf Spot	1.25-3.0 lb/100 gal	Foliar application every 7-14 days. Tank mix rates: CEASE 4-6qt/100gal + MilStop SP 1.25-3 lb/100 gal.
	CEASE	4-hour 0-day	Yes	Bacterial and Fungal 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 application weekly; 1 fl oz/gal curative application.
	BotryStop WP	4-hour 0-day	Yes	<i>Botrytis</i> , Bacterial Leaf Spot ¹	2-4 lb/100 gal	Foliar application every 7-10 days.
INSECTS / MITES 	PRINCIPLE WP ¹	4-hour 0-day	Yes	Whiteflies, Aphids, Thrips, Caterpillars	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	Aphids, Whiteflies, Thrips, Mealybugs, Caterpillars	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, Aphids, Thrips, Whiteflies, Leafminers, Mealybugs, Scales	1-2 gal/100 gal	Foliar application every 7 days. Suppresses Powdery Mildew, Rust. Use 1% when in bloom or on sensitive crops.
	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.
	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	Foliar Spray/Drench/Dip: 1 qt/100 gal	Pre-plant dip or drench at planting. Re-apply as a drench at 2-week intervals.

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

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



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