






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



**BioWorks®**  
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# CROP GUIDE STRAWBERRIES

## ORGANIC AND CONVENTIONAL FIELD PRODUCTION




	PEST/DEFICIENCY	CROP STAGE				
		PREPLANT	TRANSPLANTING	VEGETATIVE	FLOWERING	HARVEST
<div>DISEASES</div> <div></div>	Soilborne Diseases	RootShield® PLUS+ WP				
	Powdery Mildew		MilStop® SP, PERpose Plus®, SuffOil-X®			
	Botrytis, Fruit Rot, Gray Mold		BotryStop® WP, MilStop SP, PERpose Plus			
	Bacterial Leaf Spot	PERpose Plus				
<div>INSECTS / MITES</div> <div></div>	Aphids, Whiteflies, Thrips	EpiShield™	Molt-X®, SuffOil-X®, EpiShield			
	Mites	EpiShield	SuffOil-X, EpiShield			
	Cabbage Looper, Leafrollers, Armyworm, Corn Earworm, Cutworms		Molt-X			
	Lygus Bug (Tarnished plant bug)			Molt X		
	Fruit Flies					
<div>NUTRITION</div> <div></div>	Efficient nutrient use and stress reduction	ON-Gard®				
	Calcium (Ca) deficiency		ON-Gard CALCIUM			



ABOVE AND BEYOND IS WHERE WE BEGIN

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ORGANIC AND CONVENTIONAL FIELD PRODUCTION

	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	<i>Phytophthora</i> , <i>Fusarium</i> , <i>Pythium</i> , <i>Rhizoctonia</i> and other soilborne pathogens	Dip: 6 oz/20 gal; Drip irrigation: 8 oz/100 gal or 1-2 lbs per acre	Preplant bare-root transplant dip: maintain agitation in dip suspension, submerge plants for 30 seconds. Drip irrigation application: 4 weeks after transplant, and at 8-12 weeks, depending on disease pressure. Run RootShield PLUS <sup>+</sup> towards the end of the irrigation cycle; flush irrigation lines with clear water after application.
	MilStop SP	1-hour 0-day	Yes	Powdery Mildew, <i>Botrytis</i> Gray Mold, Anthracnose	2-5.0 lb/acre	Spray at 1-2-week intervals until conditions are no longer favorable for disease. Do not lower pH (8.0 is needed).
	PERpose Plus <sup>1</sup>	0-1-hour 0-day	Yes	<i>Botrytis</i> Gray Mold, Powdery Mildew, <i>Phytophthora</i> Rot, Anthracnose, <i>Xanthomonas</i>	1/3-1 fl oz/gal	Preplant soil drench: apply 1 day prior to planting. Foliar preventative application: 1/3 fl oz/gal weekly; Foliar curative rate: 1 fl oz/gal for 1-3 consecutive days.
	BotryStop WP	4-hour 0-day	Yes	<i>Botrytis</i> , Gray Mold	2-4 lb/acre	Begin application at or before flowering. Repeat on 7-10-day intervals or as needed up until harvest.
INSECTS / MITES	 Molt-X <sup>2</sup>	4-hour 0-day	Yes	Aphids, Whiteflies, Lepidopterans, Lygus Bugs, Thrips, Leafrollers, Armyworm, Corn Earworm, Cutworms	8-10 fl oz/acre	Foliar spray to glisten on a 7-10-day interval or as needed. Optimum pH for application is 5.5 to 6.5; if pH exceeds 7.0; use a buffering agent.
	SuffOil-X	4-hour 0-day	Yes	Mites, Aphids, Thrips, Whiteflies; Powdery Mildew	1-2 gal/100 gal	Foliar application as needed. DO NOT use in combination with or immediately before or after spraying with any product containing sulfur.
	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.
NUTRITION	 ON-Gard (5-0-0) <sup>3</sup>	N/A	Yes	Nutrition supplement and stress reduction	Dip: 1% v/v; 16-64 fl oz/acre	Use with RootShield PLUS <sup>+</sup> WP in pre-plant dip. Foliar application or fertigation. Apply up to 6 times per growing season. Compatible with other fertilizers.
	ON-Gard CALCIUM <sup>3</sup> (1-0-0 + 5% Ca)			Calcium (Ca) deficiency	16 fl oz/100 gal	Weekly foliar spray to prevent Ca deficiency.

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.



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