



# Strawberries

*Solutions for organic or conventional field production*

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 strawberries.

PEST/DEFICIENCY	CROP STAGE					
	PREPLANT	TRANSPLANTING	VEGETATIVE	FLOWERING	HARVEST	
<b>DISEASES</b>	Soilborne Diseases					RootShield PLUS <sup>+</sup> WP
	Powdery Mildew			MilStop SP, PERpose Plus*, SuffOil-X		
	Botrytis Fruit Rot, Gray Mold			BotryStop, MilStop SP, PERpose Plus		
	Bacterial Leaf Spot					PERpose Plus
<b>INSECTS / MITES</b>	Aphids, Whiteflies			Mycotrol ESO, Molt-X, SuffOil-X		
	Spider Mites			SuffOil-X		
	Cabbage Looper			Mycotrol ESO, Molt-X		
	Lygus Bug (Tarnished plant bug)			Mycotrol ESO, Molt-X		
	Thrips			Mycotrol ESO, Molt-X		
	Leafrollers, Armyworm, Corn Earworm, Cutworms			Molt-X		
	Fruit Flies			Molt-X, BotaniGard MAXX		
<b>NUTRITION</b>	Efficient nutrient use, Supports all stages of development					ON-Gard
	Enhance calcium uptake			ON-Gard CALCIUM		
	Preplant fertilization					Verdanta EcoVita

**DISEASES**

PRODUCT	REI, PHI	ORGANIC INPUT	PEST/DEFICIENCY	RECOMMENDED RATE	TYPE OF APPLICATION
<b>RootShield® PLUS+ WP</b>	4-hour, 0-day	OMRI	Phytophthora, Fusarium, Pythium, Rhizoctonia 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+ towards the end of the irrigation cycle; flush irrigation lines with clear water after application.
<b>MilStop® SP</b>	1-hour, 0-day	OMRI	Powdery Mildew, Botrytis Gray Mold, Anthracnose	2-5 lbs/acre	Spray at 1-2 week intervals until conditions are no longer favorable for disease. Do not lower pH (8.0 is needed).
<b>BotryStop®</b>	4-hour, 0-day	OMRI	Botrytis Gray Mold	2-4 lbs/acre	Begin application at or before flowering. Repeat on 7-10 day intervals or as needed up until harvest.
<b>PERpose Plus®</b>	0-1 hour, 0 day	OMRI	Botrytis Gray Mold, Powdery Mildew, Phytophthora Rot, Anthracnose, Xanthomonas	Soil drench: 2 fl oz/gal; Foliar application: 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.

**INSECTS / MITES**

<b>Mycotrol® ESO</b>	4-hour, 0-day	OMRI, WSDA	Aphids, Whiteflies, Lepidopterans, Lygus Bugs, Thrips, Beetles, Weevils	1 qt/acre	Foliar application every 5 – 10 days. Apply up to a maximum of 3 qts/acre for extreme insect pressure or dense foliage. For leaf-feeding Lepidoptera, can tank mix with Bacillus thuringiensis.
<b>Molt-X®</b>	4-hour, 0-day	OMRI	Aphids, Whiteflies, Lepidopterans, Lygus Bugs, Thrips, Leafrollers, Armyworm, Corn Earworm, Cutworms	8-10 fl oz/acre	For foliar application. Tank mix with Mycotrol ESO for added efficacy. In tank mix, use ½ rate. Optimum pH for application is 5.5 to 6.5; if pH exceeds 7.0; use a buffering agent.
<b>SuffOil-X®</b>	4-hour, 0-day	OMRI	Spider Mites, Aphids, 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.
<b>BotaniGard® MAXX</b>	12-hour, 0 day	N/A	Aphid, Whitefly, Spider Mite, Cabbage Looper, Lygus Bug, Thrips, Leafroller, Fruit Flies	1-2 qt/acre	Foliar application at 5-10 day intervals. Adjust spray pH to 5.5 – 7.0. Do not wet plants to runoff or drip. Apply in early morning or evening, to avoid harm to honey bees.

**NUTRITION**

<b>ON-Gard® (5-0-0)</b>	N/A	OMRI	Nutrition supplement and stress reduction	Dip: 1% v/v; 16-64 fl oz/acre	Use with RootShield PLUS+ WP in pre-plant dip. Foliar application or fertigation. Apply up to 6 times per growing season. Compatible with other fertilizers.
<b>ON-Gard® CALCIUM (1-0-0 + 5% Ca)</b>		OMRI	Calcium (Ca) deficiency	16 fl oz/100 gal	Weekly foliar spray to prevent Ca deficiency
<b>Verdanta® EcoVita® (7-5-10)</b>		OMRI	Preplant fertilization	16-30 lb/1000 ft <sup>2</sup>	Preplant banded application



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

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