

CROPS	DISEASE	DILUTION RATE:	APPLICATION RATE	DIRECTIONS
Asparagus	Phytophthora	1:100	128 oz. Oxidate per 100 gallons of water; apply 50–100 gallons of spray solution per acre.	Curative: Spray diseased plants using a 1:100 rate for three consecutive days and continue treatments on five to seven day intervals
		1:100 – 1:300	40–128 oz. Oxidate per 100 gallons of water; apply 50–100 gallons of spray solution per acre.	Preventive: Begin when plants are small. Apply first three treatments at 1:100, for 5-day intervals. Reduce rate to 1:300 after the completion of third treatment and maintain 5-day interval spray cycle until harvest.
Beans Snap & Dry	Anthracnose Downy Mildew Powdery Mildew Sclerotinia Rust	1:100	128 oz. OxiDate per 100 gallons of water; apply 50-100 gallons of spray solution per acre.	Curative: Spray diseased plants using a 1:100 rate for three consecutive days and continue treatments on five to seven day intervals.
		1:100 - 1:300	40–128 oz. OxiDate per 100 gallons of water; apply 50-100 gallons of spray solution per acre.	Preventive: Begin when plants are small. Apply first three treatments at 1:100, for 5-day intervals. Reduce rate to 1:300 after the completion of third treatment and maintain 5-day interval spray cycle until harvest.
Berries, including but not limited to: Cranberry Strawberry Blackberry Blueberry Raspberry	Botrytis Downy Mildew Fruit Rot Leaf Blight Powdery Mildew	1:100	128 oz. Oxidate per 100 gallons of water; apply 25–100 gallons of spray solution per acre.	Curative: Spray diseased plants using a 1:100 rate for one to three consecutive days and continue treatments on five to seven day intervals.
		1:100 – 1:300	40–128 oz. Oxidate per 100 gallons of water; apply 50–100 gallons of spray solution per acre.	Preventive: Begin when plants are small. Apply first three treatments at 1:100, for 5-day intervals. Reduce rate to 1:300 after the completion of third treatment and maintain 5-day interval spray cycle until harvest.
Cole Crops, including but not limited to: Broccoli Cauliflower Cabbage Brussels Sprouts Collards	Alternaria Leaf Spot Downy Mildew Powdery Mildew Early Blight Late Blight	1:100	128 oz. OxiDate per 100 gallons of water; apply 50–100 gallons of spray solution per acre.	Curative: Spray diseased plants using a 1:100 rate for three consecutive days and continue treatments on five to seven day intervals.
		1:100 - 1:300	40-128 oz. OxiDate per 100 gallons of water; apply 50–100 gallons of spray solution per acre.	Preventive: Begin when plants are small. Apply first three treatments at 1:100, for 5-day intervals. Reduce rate to 1:300 after the completion of third treatment and maintain 5-day interval spray cycle until harvest.
Celery	Early Blight Late Blight	1:100	128 oz. Oxidate per 100 gallons of water; apply 25–100 gallons of spray solution per acre.	Curative: Spray diseased plants using a 1:100 rate for one to three consecutive days and continue treatments on five to seven day intervals.
		1:100 – 1:300	40–128 oz. Oxidate per 100 gallons of water; apply 50–100 gallons of spray solution per acre.	Preventive: Begin when plants are small. Apply first three treatments at 1:100, for 5-day intervals. Reduce rate to 1:300 after the completion of third treatment and maintain 5-day interval spray cycle until harvest.
Root Crops, including but not limited to: Beets Carrots Ginseng Sweet Potato Yams	Alternaria Crown Rot Early Blight Late Blight	1:100	128 oz. Oxidate per 100 gallons of water; apply 50–100 gallons of spray solution per acre.	Curative: Spray diseased plants using a 1:100 rate for one to three consecutive days and continue treatments on five to seven day intervals.
		1:100 – 1:300	40–128 oz. Oxidate per 100 gallons of water; apply 50–100 gallons of spray solution per acre.	Preventive: Begin when plants are small. Apply first three treatments at 1:100, for 5-day intervals. Reduce rate to 1:300 after the completion of third treatment and maintain 5-day interval spray cycle until harvest.
Citrus Crops, including but not limited to: Grapefruit Lemon Orange Tangerine Kumquat	Alternaria Anthracnose Rust Scab Powdery Mildew Brown Rot Phytophthora Citrus Canker	1:100	128 oz. OxiDate per 100 gallons of water; apply 50–100 gallons of spray solution per acre.	Pre-Bloom: Begin applications at 1/4 - 1/2 inch green tip and continue on a five to seven day schedule through bloom. Curative: Spray diseased plants using a 1:100 rate for three consecutive days and continue treatments on five to seven day intervals.
		1:100 – 1:300	40-128 oz. OxiDate per 100 gallons of water; apply 50–100 gallons of spray solution per acre.	Preventive: Spray once a week until harvest.
Cucurbit crops, including but not limited to: Cucumber Squash Pumpkin Melons	Alternaria Anthracnose Downy Mildew Powdery Mildew Pythium Rot Gummy Stem Rot	1:100	128 oz. OxiDate per 100 gallons of water; apply 50-100 gallons of spray solution per acre.	Curative: Spray diseased plants using a 1:100 rate for three consecutive days and continue treatments on five to seven day intervals.
		1:100 – 1:300	40-128 oz. OxiDate per 100 gallons of water; apply 50–100 gallons of spray solution per acre.	Preventive: Begin when plants are small. Apply first three treatments at 1:100, for 5-day intervals. Reduce rate to 1:300 after the completion of third treatment and maintain 5-day interval spray cycle until harvest.
Herbs and Spices, including but not limited to: Cilantro Coriander Basil	Anthracnose Downy Mildew Powdery Mildew Pythium Rot	1:100	128 oz. Oxidate per 100 gallons of water; apply 50–100 gallons of spray solution per acre.	Curative: Spray diseased plants using a 1:100 rate for one to three consecutive days and continue treatments on five to seven day intervals.
		1:100 – 1:300	40–128 oz. Oxidate per 100 gallons of water; apply 50–100 gallons of spray solution per acre.	Preventive: Begin when plants are small. Apply first three treatments at 1:100, for 5-day intervals. Reduce rate to 1:300 after the completion of third treatment and maintain 5-day interval spray cycle until harvest.

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Chives Dill Rosemary Sage Mint		1:500 – 1:1000	Direct Injection	Inject directly into misting systems for continual treatment during propagation.
Grasses grown for seed	Stem Rust Leaf Rust Leaf Spot	1:100 – 1:300	40 - 128 oz. Oxidate per 100 gallons of water; apply 50–100 gallons of spray solution per acre.	Use sufficient water to achieve good coverage. Begin applications during stem elongations. Repeat weekly or as needed. Livestock can graze treated areas.
Leafy Vegetables	Rust Brown Rot Phytophthora Botrytis	1:100	128 oz. Oxidate per 100 gallons of water; apply 50–100 gallons of spray solution per acre.	Curative: Spray diseased plants using a 1:100 rate for one to three consecutive days and continue treatments on five to seven day intervals.
	Downy Mildew Powdery Mildew Early Blight Late Blight	1:100 – 1:300	40–128 oz. Oxidate per 100 gallons of water; apply 50–100 gallons of spray solution per acre.	Preventive: Begin when plants are small. Apply first three treatments at 1:100, for 5-day intervals. Reduce rate to 1:300 after the completion of third treatment and maintain 5-day interval spray cycle until harvest.
Mushrooms	Verticillium Spot	1:100	128 oz. Oxidate per 100 gallons of water; apply 50–100 gallons of spray solution per acre.	Curative: Spray diseased plants using a 1:100 rate for one to three consecutive days and continue treatments on five to seven day intervals.
		1:100 – 1:300	40–128 oz. Oxidate per 100 gallons of water; apply 50–100 gallons of spray solution per acre.	Preventive: Begin when plants are small. Apply first three treatments at 1:100, for 5-day intervals. Reduce rate to 1:300 after the completion of third treatment and maintain 5-day interval spray cycle until harvest.
Onions Leeks Shallots Garlics	Botrytis Downy Mildew Powdery Mildew	1:100	128 oz. OxiDate per 100 gallons of water; apply 50–100 gallons of spray solution per acre.	Curative: Spray diseased plants using a 1:100 rate for three consecutive days and continue treatments on five to seven day intervals.
		1:100 – 1:300	40–128 oz. OxiDate per 100 gallons of water; apply 50–100 gallons of spray solution per acre.	Preventive: Begin when plants are small. Apply first three treatments at 1:100, for 5-day intervals. Reduce rate to 1:300 after the completion of third treatment and maintain 5-day interval spray cycle until harvest.
Peanuts	Early Blight Late Blight Rust	1:100	128 oz. Oxidate per 100 gallons of water; apply 50–100 gallons of spray solution per acre.	Curative: Spray diseased plants using a 1:100 rate for one to three consecutive days and continue treatments on five to seven day intervals.
		1:100 – 1:300	40–128 oz. Oxidate per 100 gallons of water; apply 50–100 gallons of spray solution per acre.	Preventive: Begin when plants are small. Apply first three treatments at 1:100, for 5-day intervals. Reduce rate to 1:300 after the completion of third treatment and maintain 5-day interval spray cycle until harvest.
Peppers	Anthrachnose Phytophthora Blight Powdery Mildew Leaf Spot	1:100	128 oz. OxiDate per 100 gallons of water; apply 50–100 gallons of spray solution per acre.	Curative: Spray diseased plants using a 1:100 rate for three consecutive days and continue treatments on five to seven day intervals.
		1:100 – 1:300	40–128 oz. OxiDate per 100 gallons of water; apply 50–100 gallons of spray solution per acre.	Preventive: Begin when plants are small. Apply first three treatments at 1:100, for 5-day intervals. Reduce rate to 1:300 after the completion of third treatment and maintain 5-day interval spray cycle until harvest.
Potatoes	Early Blight Late Blight	1:100	128 oz. OxiDate per 100 gallons of water; apply 50–100 gallons of spray solution per acre.	Curative: Spray diseased plants using a 1:100 rate for three consecutive days and continue treatments on five to seven day intervals.
		1:100 – 1:300	40–128 oz. OxiDate per 100 gallons of water; apply 50–100 gallons of spray solution per acre.	Preventive: Begin when plants are small. Apply first three treatments at 1:100, for 5-day intervals. Reduce rate to 1:300 after the completion of third treatment and maintain 5-day interval spray cycle until harvest.
Seed Potatoes	Fusarium	1:50	2½ oz. OxiDate per gallon of water.	Dip whole or cut tubers into tank of working solution. Let soak for a period of five minutes before removing seed pieces.
Tobacco Float beds	Pythium Phytophthora Fusarium Blue Mold	1:500 – 1:1000	1.25 – 2.5 fl. oz. per 10 gallons	Curative: Initial treatment of float bed water.
		1:5000 – 1:10,000	6 – 24 fl. oz. per 1000 gallons	Preventive: Treat water on a regular basis or maintain a residual 100 ppm concentration.
Tobacco Field	Blue Mold	1:100	128 oz. Oxidate per 100 gallons of water; apply 50–100 gallons of spray solution per acre.	Curative: Spray diseased plants using a 1:100 rate for three consecutive days and continue treatments on five to seven day intervals.
		1:100 – 1:300	40–128 oz. Oxidate per 100 gallons of water; apply 50–100 gallons of spray solution per acre.	Preventive: Begin when plants are small. Apply first three treatments at 1:100, for 5-day intervals. Reduce rate to 1:300 after the completion of third treatment and maintain 5-day interval spray cycle until harvest.
Tomatoes	Alternaria Anthrachnose Cladosporium Mold Early Blight	1:100	128 oz. OxiDate per 100 gallons of water; apply 50–100 gallons of spray solution per acre.	Curative: Spray diseased plants using a 1:100 rate for three consecutive days and continue treatments on five to seven day intervals.
	Late Blight Powdery Mildew	1:100 – 1:300	40–128 oz. OxiDate per 100 gallons of water; apply 50–100 gallons of spray solution per acre.	Preventive: Begin when plants are small. Apply first three treatments at 1:100, for 5-day intervals. Reduce rate to 1:300 after the completion of third treatment and maintain 5-day interval spray cycle until harvest.

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Pome Fruit, including but not limited to: Apples Pears	Rusts Scab Powdery Mildew	1:100	128 oz. OxiDate per 100 gallons of water; apply 50–100 gallons of spray solution per acre.	Curative: Spray diseased trees using a 1:100 rate for three consecutive days and continue treatments on five to seven day intervals. Pre-Bloom: Begin applications at 1/4-1/2 inch green tip and continue on a five to seven day schedule through bloom.
		1:100		
Filberts	Eastern Filbert Blight Bacterial Blight	1:100	128 oz. OxiDate per 100 gallons of water; apply 50–100 gallons of spray solution per acre.	Curative: Spray diseased trees using a 1:100 rate for three consecutive days and continue treatments on five to seven day intervals. Pre-Bloom: Begin applications at 1/4-1/2 inch green tip and continue on a five to seven day schedule through bloom.
		1:100		
Seed Potatoes	Fusarium	1:50	2.5 oz. Oxidate per gallon of water.	Dip whole or cut tubers into tank of working solution. Let soak for a period of five minutes before removing seed pieces.
Bananas Plantains	Sigatoka	1:100	128 oz. OxiDate per 100 gallons of water; apply 50–100 gallons of spray solution per acre.	Curative: Spray diseased plants using a 1:100 rate for three consecutive days and continue treatments on five to seven day intervals. Preventive: Begin when plants are small. Apply first three treatments at 1:100, for 5-day intervals. Reduce rate to 1:300 after the completion of third treatment and maintain 5-day interval spray cycle until harvest. Pre-Bloom: Begin applications at 1/4-1/2 inch green tip and continue on a five to seven day schedule through bloom.
		1:100 – 1:300	40-128 oz. OxiDate per 100 gallons of water; apply 50–100 gallons of spray solution per acre.	
Grapes	Black Rot Downy Mildew Powdery Mildew Botrytis Sour Rot	1:100	128 oz. OxiDate per 100 gallons of water; apply 50–100 gallons of spray solution per acre.	Curative: Spray diseased plants using a 1:100 rate for three consecutive days and continue treatments on five to seven day intervals. Preventive: Begin when shoots are small. Apply first three treatments at 1:100, for 5-day intervals. Reduce rate to 1:300 after the completion of third treatment and maintain 5-day interval spray cycle until harvest Pre-Bloom: Begin applications at 1/4-1/2 inch green tip and continue on a five to seven day schedule through bloom.
		1:100 – 1:300	40–128 oz. OxiDate per 100 gallons of water; apply 50-100 gallons of spray solution per acre.	
Stone Fruits including but not limited to: Peaches Plums Cherries Nectarines Prunes	Downy Mildew Powdery Mildew Brown Rot	1:100	128 oz. OxiDate per 100 gallons of water; apply 50–100 gallons of spray solution per acre.	Pre-Bloom: Begin applications at 1/4-1/2 inch green tip and continue on a five to seven day schedule through bloom. Curative: Spray diseased trees using a 1:100 rate for three consecutive days and continue treatments on five to seven day intervals. Preventive: Begin when plants are small. Apply first three treatments at 1:100, for 5-day intervals. Reduce rate to 1:300 after the completion of third treatment and maintain 5-day interval spray cycle until harvest.
		1:100 – 1:300	40–128 oz. Oxidate per 100 gallons of water; apply 50–100 gallons of spray solution per acre.	
Tropical Fruit, including but not limited to: Mango Casaba Poi Star Fruit Pineapple Passion Frt. Kiwi Guava Coconut Dates	Alternaria Leaf Blight Anthracnose Stem Rot Rhizoctonia Sooty Mold Powdery Mildew	1:100	128 oz. Oxidate per 100 gallons of water; apply 50–100 gallons of spray solution per acre.	Curative: Spray diseased plants using a 1:100 rate for three consecutive days and continue treatments on five to seven day intervals. Preventive: Begin when plants are small. Apply first three treatments at 1:100, for 5-day intervals. Reduce rate to 1:300 after the completion of third treatment and maintain 5-day interval spray cycle until harvest.
		1:100 – 1:300	40–128 oz. Oxidate per 100 gallons of water; apply 50–100 gallons of spray solution per acre.	
Spray Treatments for newly harvested potatoes before storage -				
Potatoes	Fusarium Tuber Rot Bacteria Soft Rot Silver Scurf Early Blight Late Blight	1: 50 – 1:100	5 - 1 1/4 oz. OxiDate per gallon of water.	Spray diluted solution on tuber to runoff to achieve full and even coverage. Additional surfactant can be added as needed to aid in sticking.
Direct injection into humidification water for postharvest potatoes in storage -				
Potatoes	Fusarium Tuber Rot Bacteria Soft Rot Silver Scurf Early Blight Late Blight	1:100 – 1:300	5 - 1/2 oz. OxiDate per gallon of water.	Inject concentrate into makeup water used in humidification of postharvest potatoes in storage.