

# Insecticide Rotation Guide

These are our primary insecticide rotations of chemicals used to treat the pest issues that may develop in Proven Winners® and Proven Selections® crops.

APHIDS				
Category	Treatment	Rate per 100 gal.	When	Main Target/Other Targets & Notes
High Pressure/ Quick Knockdown	Thionex®	1 lb.	Severe infestation	All stages of Aphids and use only as an emergency.
Aphid Rotation	Endeavor	2.5 oz. – 5 oz.	At first sign	All stages of Aphids. Causes them to stop feeding.
	Flagship®	2 oz. – 4 oz.	3 – 5 days later	All stages of Aphids; takes a few days to see death.
	Aria® / TriStar®	20 g / 1.3 oz.	3 – 5 days later	All stages of Aphids. Aria stops feeding and Tristar is a translaminar neonicotinoid.
	Safari®	4 oz. – 8 oz.	3 – 5 days later	All stages of Aphids
	Molt-X / Botanigard	8 oz. / 1 lb.	3 – 5 days later	Molting inhibitor
	Kontos®	50 ml	3 – 5 days later	Systemic and contact
	Orthene / Marathon® II	4 oz. / 50.2 ml	3 – 5 days later	Use where products above are not achieving desired control and/or for quick knockdown.

FUNGUS GNAT				
Category	Treatment	Rate per 100 gal.	When	Main Target/Other Targets & Notes
High Pressure/ Quick Knockdown	Mesurool sprench	1 lb.	Severe infestation	For active adults and heavy infestation of larvae
Fungus Gnat Rotation	Citation® sprench	2.66 oz.	At first sign, follow cultural procedure	Larvicide
	Distance® sprench	2 oz. – 6 oz.	3 – 5 days later	Immatures, Whiteflies, Scales, Mealybugs
	Adept® sprench	.5 oz. – 2 oz.	3 – 5 days later	Immatures, Whiteflies, Leafminers
	Gnatrol® sprench	13 oz. – 26 oz.	3 – 5 days later	Larvicide with a foul odor associated with it

MITES				
Category	Treatment	Rate per 100 gal.	When	Main Target/Other Targets & Notes
Mite Rotation	Floramite / Ovation®	8 oz. / 2 oz.	First day	Adult Mites and eggs
	Judo™ / Hexygon®	4 oz. / 2 oz.	3 – 7 days later	Adults, nymphs, and eggs
	Pylon	5.2 oz.	3 – 7 days later	Adults and nymphs. Also great for Thrips and Whiteflies
	Triact® 70 (neem oil)	256 fl. oz.	3 – 7 days later	All life stages, plus Thrips, Whitefly, Aphids
	Avid / Floramite	8 oz. / 4 oz.	3 – 7 days later	Mites, Thrips
	Suffoil-X®	256 fl. oz.	3 – 7 days later	All life stages, plus Thrips, Whitefly, Aphids
	Akari®	12 oz. – 24 oz.	3 – 7 days later	Adults and nymphs
Winter Rotation for ColorChoice®	Pylon / Ovation	5.2 oz. / 2 oz.	3 – 7 days later	Adults, nymphs, and eggs
	Triact 70, Soaps, Oils	256 fl. oz.	Scout for pressure once a week	Effective on all life stages, including Botrytis and Powdery Mildew. Spray once weekly or biweekly, depending on pressure.

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SHOREFLY				
Category	Treatment	Rate per 100 gal.	When	Main Target/Other Targets & Notes
High Pressure/ Quick Knockdown	MesuroI srench	1 lb.	Severe infestation	For heavy infestation of active adults and larvae
Shorefly Rotation	Citation srench	2.66 oz.	At first sign, follow cultural procedure	Larvicide
	Distance srench	2 oz. – 6 oz.	3 – 5 days later	Immatures, Whiteflies, Fungus Gnats, Leafminers
	Safari srench	4 oz. – 8 oz.	3 – 5 days later	Adults and larvae

THRIPS				
Category	Treatment	Rate per 100 gal.	When	Main Target/Other Targets & Notes
High Pressure / Quick Knockdown	MesuroI® or Orthene®	1 lb. or 4 oz.	At first sign of heavy pressure	Thrips, Aphids, Whitefly, Beetles, Fungus Gnat Adults
Thrips Rotation	Molt-x® / Botanigard®	8 oz. / 1 lb.	First day	Thrip pupae and young adults, Whitefly, Aphids, Fungus Gnats (IGR + bacteria)
	Pylon® or Pylon/Endeavor®	5.2 oz.	3 – 7 days later	All life stages of Thrips, Mites, Whitefly (tank mix with Endeavor for control of Aphids)
	Pedestal® / Discus® NG	6 oz. / 25 oz.	3 – 7 days later	Thrips, Aphids, Whitefly (use twice in a row for best results; watch Phyto). Do not use Pedestal on <i>Lobularia</i> .
	Avid® / Floramite®	8 oz. / 4 oz.	3 – 7 days later	Thrips and Mites (good contact kill)
	Overture® / Decathlon®	8 oz. / 1.3 oz.	3 – 7 days later	Thrips, Aphids (translaminar that has great control when not used often)
	Conserve® / Floramite	22 oz. / 4 oz.	3 – 7 days later	Thrips, Mites, Aphids
	Mavrik®	8 oz.	3 – 7 days later	Thrips, Aphids, Whitefly

WHITEFLY				
Category	Treatment	Rate per 100 gal.	When	Main Target/Other Targets & Notes
High Pressure/ Quick Knockdown	Thionex	1 lb.	Severe infestation	Effective on all life stages. Use as an emergency only.
Whitefly Rotation	Sanmite®	4 oz. – 6 oz.	At first sign	Eggs, nymphs, and adults
	Pedestal	6 oz. – 8 oz.	3 – 5 days later	IGR effective on nymphs
	Molt-X / Botanigard	8 oz. / 1 lb.	Every 3 days	Molting inhibitor effective on eggs, nymphs and adults.
	Safari	4 oz. – 8 oz.	3 – 5 days later	Effective on all life stages
	Talstar®	10 oz. – 40 oz.	3 – 7 days later	Effective on all life stages
	Scimitar®	1.5 oz. – 5 oz.	7 – 14 days later	Effective on all life stages
	Judo	2 oz. – 4 oz.	7 – 14 days later	Adults

OTHER PESTS				
Category	Treatment	Rate per 100 gal.	When	Main Target/Other Targets & Notes
Beetles	Talstar	10 oz. – 40 oz.	First sign	Effective on all life stages
Caterpillars	Orthene / Marathon II	4 oz. / 50 ml	First sign	Effective on all life stages
Loopers	Conserve / DiPel® Pro	10 oz. / 1 lb.	First sign	Effective on all life stages
Moths	Conserve / DiPel Pro	10 oz. / 1 lb.	First sign	Effective on all life stages

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