

**FLOWERS AND FOLIAGE PLANTS
COMMERCIAL FIELD PRODUCTION INSECT CONTROL**

Note: Always follow label directions and precautions when handling or applying pesticides.

Insect or Mite	Insecticide and Formulation	Amount Per 100 Gallons of Water	Reentry	Remarks and Precautions
Aphids	abamectin Avid 0.15EC	8 oz	12 hours	Apply as needed and repeat application at 7-day intervals or as necessary. Do not apply more than 16 fl oz or less than 8 fl oz per acre. Use in sufficient water to obtain uniform plant coverage. Phytotoxicity has been observed in certain species of ferns.
	acephate Orthene TT&O 75SP TT&O 97	2/3 lb 8 oz	24 hours	
	acetamiprid TriStar 70WSP TriStar 30SG	1 soluble bag 1.3 oz	24 hours 12 hours	Apply as a full coverage foliar spray. Use of a non-ionic spreader-sticker adjuvant may improve control.
	azadirachtin Azatin 3.0% XL Align-XL Neemazad 4.5% E	10-16 oz 10-16 oz 2.25-4.5 oz	4 hours 4 hours 12 hours	
	<i>Beauveria bassiana</i> Naturalis-O BotaniGard	30-100 fl oz 16-32 oz	4 hours 12 hours	Apply as full coverage spray.
	bifenthrin Talstar T&O 10WP 7.9%	6-32 oz 25-50 fl oz	12 hours	
	cyfluthrin Decathlon 2EC	1-2 oz	12 hours	Repeat application every 7-28 days as necessary.
	chlorpyrifos DuraGuard 20% ME	0.25-0.50 oz/gal	24 hours	
	dinotefuran Safari 20SG	see label directions	12 hours	Repeat application every 7-28 days as necessary.
	disulfoton Di-syston 15G	see label directions	48 hours	
	fenpropathrin Tame	10 2/3 oz	24 hours	Repeat application every 7-28 days as necessary.
	flonicamid 50 WDG Aria 0.7 oz package	1-6 packets (0.7-4.3 oz)	12 hours	
	fluvalinate Mavrik 2EC	2-5 oz	12 hours	Repeat application every 7-28 days as necessary.
	imidacloprid Marathon 1G 60WP Marathon II	see label directions	12 hours	
	insecticidal soap M-Pede Olympic	1-2 gal	12 hours	

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Aphids (cont.)	λ-cyhalothrin Scimitar 10WP	1.2-4.8 oz	12 hours		
	methiocarb Mesurol 75WP	0.5-1 lb	24 hours		
	permethrin Astro	4-8 fl oz	12 hours		
	pymetrozine Endeavor 50WG	2.5-5 oz	12 hours		
	pyrethrum X-Clude Pyrenone	follow label	12 hours		
	spirotetramat Kontos 2F	1.7 fl oz	24 hours	See label for drench instructions.	
	thiamethoxam Flagship 25WG	2-4 oz	12 hours		
	Corn Earworm	azadirachtin			
	Armyworm	Azatin 3.0% E	12-16 oz	4 hours	
	Cutworm	Neemazad 4.5% E	2.25-4.5 oz	12 hours	
	<i>Bacillus thuringiensis</i> Dipel Thuricide Sok-Bt		4 hours	Follow manufacturer's suggestions.	
	<i>Beauveria bassiana</i> Naturalis-O	30-100 fl oz	4 hours		
	carbaryl Sevin SL	1qt	12 hours		
	chlorpyrifos DuraGuard 20% ME	0.25-0.50 oz/gal	24 hours		
	cyfluthrin Decathlon 2EC	1-2 oz	12 hours		
	diflubenzuron Adept 25WP	0.5-1 lb/acre	12 hours	Dilute to apply not to exceed 200 gal/acre. Repeat at two-week intervals.	
	fluvalinate Mavrik 2EC	2-5 oz	12 hours		
	permethrin Astro	4-8 oz	24 hours		
	spinosyn Conserve SC	6 fl oz	4 hours		
	tebufenozide Confirm T/O	4-8 fl oz	4 hours	For best results, begin applications when larvae are first observed or at first sign of feeding.	

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Leafminer	abamectin Avid 0.15EC	8 oz	12 hours	Apply as needed and repeat application at 7-day intervals or as necessary.		
	acetamiprid TriStar 30SG	6.7-8.0 oz	12 hours			
	azadirachtin Azatin 3.0% E	10-16 oz	4 hours			
	Neemazad 4.5% E	2.25-4.5 oz	12 hours			
	chlorpyrifos DuraGuard 20% ME	0.25-0.50 oz/gal	24 hours			
	cyromazine Citation 75WP	2.66 oz/acre	12 hours			
	dinotefuran Safari 20SG	see label directions	12 hours			
	disulfoton Di-Syston 15G	See label directions	48 hours			
	permethrin Astro	4-8 oz	24 hours			
	spinosyn Conserve SC	20 fl oz	4 hours			
	thiamethoxam Flagship 30SG	4-8 oz	12 hours			
	Lygus Bug Stink Bug Tarnished Plant Bug Leafhopper	acephate Orthene TT&O 75SP	2/3 lb		24 hours	1 to 2 quarts per acre for stink bug suppression only.
		TT&O 97	8-12 oz			
		acetamiprid TriStar 70WSP	1 soluble bag		24 hours	
carbaryl Sevin SL		1 qt	12 hours			
chlorpyrifos DuraGuard 20% ME		0.25-0.5 oz/gal	24 hours			
cyfluthrin Decathlon 2EC		1-2 oz	12 hours			
20WP		1.9 oz				
disulfoton Di-Syston 15G		see label directions	48 hours			
imidacloprid Marathon II		1.7 oz	12 hours			

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Lygus Bug	permethrin		24 hours	
Stink Bug	Astro	4-8 oz		
Tarnished Plant Bug	thiamethoxam		12 hours	
Leafhopper (cont.)	Flagship 25WG	4 oz		
Slugs and Snails	acetamiprid TriStar 70WSP	2-4 soluble bags	24 hours	Tank mix with surfactant or pyrethroid may improve control of adults.
	Metaldehyde bait or dust	see label directions	12 hours	
	Mesuroil bait	see label directions	12 hours	
	Mesuroil 75 WP	0.5-1.0 lb	24 hours	
Spider Mite	abamectin Avid 0.15EC	4 oz	12 hours	Apply as needed and repeat application at 7-day intervals or as necessary.
	acequinocyl Shuttle 15 SC	6.4-12.8 fl oz	12 hours	Do not apply through any type irrigation. Wetting agent can be used.
	bifenthrin Talstar T&O 10WP 7.9%	6-32 oz 25-50 fl oz	12 hours	Apply as full coverage spray.
	bifenazate Floramite	2-4 oz	12 hours	Do not apply in successive applications. Use at least 2 alternative products between Floramite treatments.
	chlorpyrifos DuraGuard 20% ME	0.25-0.50 oz/gal	24 hours	
	dicofol Kelthane 18.5EC	1 pt	12 hours	
	disulfoton Di-Syston 15G	see label directions	48 hours	
	fenbutatin-oxide Vendex 50WP	8-16 oz	48 hours	Do not add oil to spray solution.
	fluvalinate Mavrik 2EC	5 oz	12 hours	
	hexythiazox Hexygon 50WP	1-2 oz	12 hours	Make one application per crop cycle.
	spinosyn Conserve SC	20 fl oz	4 hours	
	spiromesifen Judo 4 F	2.4 oz	12 hours	Effective on nymphal and egg stages.
Stalk Borer	carbaryl Sevin SL	1 qt	12 hours	Treat prior to larvae entering stalk.

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Thrips	abamectin Avid 0.15EC	8 oz	12 hours	Apply as needed and repeat application at 7-day intervals or as necessary. Do not apply more than 16 fl oz or less than 8 fl oz per acre. Use in sufficient water to obtain uniform plant coverage. Phytotoxicity has been observed in certain species of ferns. Repeat application every 7-28 days as necessary. For leaf feeding thrips.	
	acetamiprid TriStar 30SG	6.7-8.0 oz	12 hours		
	acephate Orthene TT&O 75SP TT&O 97	2/3 lb 8-12 oz	24 hours		
	azadirachtin Azatin 3.0% E Neemazad 4.5% E	12-16 oz 2.25-4.5 oz	4 hours 12 hours		
	chlorpyrifos DuraGuard 20% ME	0.25-0.5 oz/gal	24 hours		
	cyfluthrin Decathlon 2EC 20WP	1-2 oz 1.9 oz	12 hours		
	disulfoton Di-Syston 15G	See label directions	48 hours		
	flonicamid 50 WDG Aria 0.7 oz package	1-6 packets (0.7-4.3 oz)	12 hours		
	fluvalinate Mavrik 2EC	2-5 oz	12 hours		
	permethrin Astro	4-8 oz	24 hours		
	spinosyn Conserve SC	6 fl oz	4 hours		
	thiamethoxam Flagship 25WG	2-4 oz	12 hours		
	Whitefly	acephate Orthene TT&O 75SP TT&O 97	2/3 lb 8-12 oz		24 hours
		acetamiprid TriStar 70WSP TriStar 30SG	2-4 soluble bag 2.7-5.3 oz		24 hours 12 hours
		azadirachtin Azatin 3.0% E Neemazad 4.5% E	10-16 oz 2.25-4.5 oz		4 hours 12 hours
		<i>Beauveria bassiana</i> Naturalis-O BotaniGard ES	30-100 fl oz 16-32 fl oz		4 hours 12 hours

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Whitefly (cont.)	bifenthrin Talstar T&O 10WP 7.9%	6-32 oz 25-50 fl oz	12 hours	Apply as full coverage spray.
	buprofezin Talus	follow label directions	12 hours	Apply no more than two applications per growing cycle.
	cyfluthrin Decathlon 2EC 20 WP	1-2 oz 1.9 oz	12 hours	
	dinotefuran Safari 20SG	see label directions	12 hours	
	disulfoton Di-Syston 15G	see label directions	48 hours	
	fenvalerate Pydrin 2.4EC	5-10 oz	12 hours	
	flonicamid 50 WDG Aria 0.7 oz package	1-6 packets (0.7-4.3 oz.)	12 hours	Repeat application every 7-28 days as necessary.
	fluvalinate Mavrik 2E	2-5 oz	12 hours	
	horticultural oils Sunspray Ultrafine Saf-T-Side	1%-2% 1-2 gal 1-2 gal	4 hours	Care must be taken because some plants are sensitive to oils. Thorough coverage is necessary, but do not over apply and get excessive runoff. Use fine spray.
	imidacloprid Marathon 1G 60WP Marathon II	see label directions	12 hours	
	insecticidal soap M-Pede Olympic	1-2 gal	12 hours	
	permethrin Astro	4-8 oz	24 hours	
	pymetrozine Endeavor 50WG	2.5-5 oz	12 hours	
	spiromesifen Judo 4 F	2.4 oz	12 hours	Effective on nymphal and egg stages.
	spirotetramat Kontos 2F	1.7 fl oz	24 hours	See label for drench instructions.
	thiamethoxam Flagship 25WG Flagship 0.22G	2-3 oz	12 hours	