

**ORNAMENTAL INSECT CONTROL FOR HOMEOWNERS  
OUTDOOR ORNAMENTAL INSECT CONTROL**

<b>Pest</b>	<b>Insecticide and Formulation*</b>	<b>Amount Formulation Per Gallon Spray</b>	<b>Remarks and Precautions</b>
<b>Aphid</b>	acephate		Follow label directions.
	acetamiprid		Follow label directions.
	bifenthrin		Follow label directions.
	cyfluthrin		Follow label directions.
	dinotefuran (Green Light with Safari)		Follow label directions.
	horticultural oils	1%-2%	Follow label directions.
	imidacloprid		Follow label directions.
	insecticidal soap	1%-2%	Thorough coverage is necessary. Spray must contact pests to be effective. Repeat spray three times at 5- to 7-day intervals.
	malathion (various)		Follow label directions.
	pyrethrin/pyrethrum		Follow label directions.
	pyrethroids	ready to use and concentrate	Follow label directions.
	resmethrin		Follow label directions.
<b>Azalea Leaf Miner</b>	acephate (Orthene TTO)	1 tsp	Per label directions.
	dinotefuran (Green Light with Safari)		Per label directions.
	imidacloprid (Bayer Advanced)		
<b>Bagworm</b>	<i>Bacillus thuringiensis</i> (Biotrol WP, Thuricide, Sok-Bt)	2 tsp	Per label directions.
	malathion (various)		Per label directions. In winter, hand-pick and burn if only a few bagworms are present.
	various pyrethroids		Per label directions.
<b>Beetles</b> (foliage feeding such as Japanese beetle, elm leaf beetle)	acetamiprid		Follow label directions.
	carbaryl		Apply to foliage when injury first noted.
	dinotefuran (Green Light with Safari)		Per label directions.
	imidacloprid (Bayer Advanced)		Follow label directions.
<b>Borers</b> (various kinds)	dinotefuran (Green Light with Safari)		Dinotefuran is effective against flat-headed borers and some clear-winged moths only.
	imidacloprid (Bayer Advanced)		Imidacloprid is effective against flat-headed borers and some clear-winged moths only.
	permethrin	per label	Apply to trunk and lower limbs in spring as per label directions.
<b>Boxwood Leaf Miner</b>	acephate (Orthene, etc.) 75S	2 tsp	Per label directions.
	dinotefuran (Green Light with Safari)		Per label directions.
	imidacloprid (Bayer Advanced)		Per label directions.
	malathion (various)		Per label directions.

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<b>Caterpillars</b> (such as armyworm, cutworm and looper)	acephate		Follow label directions.
	acetamiprid		Not for cutworm control. Follow label directions.
	<i>Bacillus thuringiensis</i> (Dipel, Thuricide)		Follow manufacturer's suggestions.
	bifenthrin	ready to use	Follow label directions.
	carbaryl		Follow label directions.
	cyfluthrin		Follow label directions.
	pyrethroids	ready to use and concentrate	Follow label directions.
<b>Holly Leaf Miner</b>	dinotefuran (Green Light with Safari)		Per label directions.
	imidacloprid (Bayer Advanced)		Spray in late spring to kill larvae in mines. Per label directions.
<b>Japanese Beetle</b> (adults)	carbaryl (Sevin) 50WP	2 Tbsp	Treat as needed. Repeat applications as necessary.
	dinotefuran (Green Light with Safari)		Per label directions.
	imidacloprid (Bayer Advanced)		Per label directions.
	malathion (various)		Per label directions.
<b>Lace Bug</b>	acephate (Orthene, etc.)	1 tsp	Apply in early spring when nymphs of first generation are present.
	dinotefuran (Green Light with Safari)		Per label directions.
	imidacloprid (Bayer Advanced)		Per label directions.
	malathion (various)		Per label directions.
<b>Mealybug</b>	acephate		Follow label directions.
	acetamiprid		Follow label directions.
	bifenthrin	ready to use	Follow label directions.
	cyfluthrin		Follow label directions.
	dinotefuran (Green Light with Safari)		Per label directions.
	horticultural oil	1%-2%	Coverage is important. Spray must contact pests.
	imidacloprid (Bayer Advanced)		Follow label directions.
	insecticidal soap	1%-2%	Thorough coverage is necessary. Spray must contact pests to be effective. Repeat spray three times at 5- to 7-day intervals.
	malathion (various)		Follow label directions.
	pyrethroids	ready to use and concentrate	Follow label directions.

\*Numerous products containing insecticide are available to homeowners. Products containing the same insecticide may vary in the concentration of the active ingredient. Always consult the product label for information on rate of application.

Insecticides that may be available to homeowners are listed in the **HOMEOWNER INSECTICIDE PRODUCT LIST** section beginning on page 308.

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<b>Plant Bugs Leafhopper</b>	acephate		Follow label directions.
	acetamiprid		Follow label directions.
	carbaryl		Apply to foliage as needed.
	cyfluthrin		Follow label directions.
	dinotefuran (Green Light with Safari)		Per label directions.
	imidacloprid (Bayer Advanced)		Per label directions.
	insecticidal soap	1%-2%	Thorough coverage is necessary. Spray must contact pests to be effective. Repeat spray three times at 5- to 7-day intervals.
	malathion (various) pyrethroids	ready to use and concentrate	Follow label directions.
<b>Scale Insects</b>	acephate		Follow label directions.
	acetamiprid		Follow label directions.
	bifenthrin		Follow label directions.
	carbaryl		Follow label directions.
	cyfluthrin		Follow label directions.
	dinotefuran (Green Light with Safari)		Follow label directions.
	horticultural oils	1%-2%	Follow label directions.
	imidacloprid (Bayer Advanced)		Follow label directions.
	insecticidal soap	1%-2%	
malathion (various) pyrethroids	ready to use and concentrate	Follow label directions.	
<b>Slug and Snail</b>	iron phosphate (Slug-Go)		Follow label directions.
	methaldehyde		Attention should be given to moist areas or water leaks. DO NOT use in home gardens.
	Mesuro 2B	1 lb/100 sq ft	Follow label directions.
<b>Sowbug and Pillbug</b>	carbaryl	follow label directions	Clean up breeding and hiding places; i.e., treat any mulched area of ornamental shrubbery.
	malathion (various)		Follow label directions.
<b>Spider Mite</b>	bifenthrin 0.012%	ready to use	Follow label directions.
	horticultural oil	1%-2%	
	insecticidal soap	1%-2%	Coverage is important. Spray must contact pests to be effective.
	malathion (various brands)		Follow label directions.

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<b>Stalk Borer</b>	carbaryl	follow label directions	Treat as often as needed beginning when first damage is noted. DO NOT allow ragweed to grow near flower beds.
<b>Thrips</b>	acephate		Follow label directions.
	acetamiprid		Follow label directions.
	carbaryl		Follow label directions.
	cyfluthrin		Follow label directions.
	dinotefuran (Green Light with Safari)		Per label directions.
	imidacloprid (Bayer Advanced)		Follow label directions.
	insecticidal soap	1%-2%	Thorough coverage is necessary. Spray must contact pests to be effective. Repeat spray three times at 5- to 7-day intervals.
	malathion (various)		Follow label directions.
	pyrethroids	ready to use and concentrate	Follow label directions.
<b>Whitefly</b>	acephate		Follow label directions.
	acetamiprid		Follow label directions.
	bifenthrin	ready to use	Follow label directions.
	cyfluthrin		Follow label directions.
	dinotefuran (Green Light with Safari)		Follow label directions.
	horticultural oils	1%-2%	
	imidacloprid (Bayer Advanced)		Follow label directions.
	insecticidal soap	1%-2%	
	malathion (various)		Follow label directions
	pyrethrins/pyrethrum		Follow label directions
	pyrethroids	ready to use and concentrate	Follow label directions.

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