

TREE AND SHRUB INSECTS

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Regardless of their size or cost, trees and shrubs used as ornamentals are highly prized by their owners for their shade or beauty. Very important are insect destroying pests. Insects may damage trees and shrubs in many ways. Caterpillars stripping foliage from twigs or branches, aphids and scale insects sucking

plant juices from new growth causing them to wilt or die, borers invading the bark and wood, and insects that carry fungus as in dutch elm disease. The insecticides listed below are readily available and effective:

Insects	Insecticide	Suggestions*
Aphids	Diazinon Malathion	Spray foliage thoroughly with force. Repeat as needed.
Bagworms	Carbaryl Diazinon Malathion	Spray foliage thoroughly. Apply June 15. Later sprays are less effective.
Borers	DDT	Spray trunk monthly in summer, beginning about May 15. Do not spray foliage. Wrap trunks of newly set trees with heavy paper for first two years or until trees are growing vigorously.
Catalpa sphinx	Carbaryl	Spray foliage when feeding or worms are first noticed.
Eastern tent caterpillars	Same as for Catalpa sphinx	Spray when nests are first noticed.
Elm leaf beetle	Same as for Catalpa sphinx	Spray as soon as damage is noticed.
European pine shoot moths and Nantucket pine moth	DDT	Spray ends of branches thoroughly in mid-April and late June.
Fall webworms	Carbaryl	Spray when first webs appear; clip off and destroy infested branches or burn out webs.
Galls		
Elm cockscomb Hickory	Lindane	Spray foliage thoroughly when buds unfold.
Hackberry blister	Diazinon Malathion	Spray foliage thoroughly in late May. Kills psyllids in galls.
Cooley spruce Eastern spruce	Either spray above	Apply in late September or October or early spring just before buds swell.
Green-striped mapleworms	Same as for Catalpa sphinx	Spray as soon as damage is noticed.
Leaf miners Boxwood Hawthorn Oak	Diazinon Malathion	Spray foliage thoroughly when mines first appear. Repeat treatment in 10 to 12 days.
Mealybugs	Malathion	Spray foliage thoroughly and with force. Repeat in two weeks.
Mimosa webworms	Carbaryl Malathion	Spray foliage thoroughly when first nests appear (June, July). A repeat treatment may be needed.
Mites	Aramite chlorobenzilate dicofol	Pay particular attention to underside of leaves. One treatment is effective for several weeks. Pay particular attention to underside of leaves. Apply 2 or 3 times at weekly intervals.
Oak kermes	Malathion	Spray foliage thoroughly about July 1 to kill the crawlers.
Periodical cicadas	Same as for fall webworm	Spray all branches thoroughly when adults appear. Repeat in 7 to 10 days.
Sawflies	Same as for fall webworm	Spray as soon as worms or damage is evident.

Scales Cottony maple European elm	Malathion	Spray foliage thoroughly in late May for pine needle and sweet gum scale; in early June for scurfy, oyster-shell, euonymous, Fletcher, and European elm scales; and again in early August for oystershell scale; in early July for cottony maple, Juniper, and dogwood scales; and between July 10 and 15 for spruce bud scale.
Oystershell Pine needle Scurfy Spruce bud Sweet gum		
Putnam San Jose Tuliptree	dormant oil diluted according to label	Apply when plants are still dormant in late winter. Do not use on evergreens. For tuliptree scale, a malathion spray in late September is also effective.
Spring cankerworms	Same as for catalpa sphinx	When leaf buds open in spring, while worms are still small.
Spruce budworms	Same as for fall webworm	Spray when caterpillars are noticed.
Sycamore lace bugs	Carbaryl Malathion	Spray when nymphs appear, usually in late May.
Thrips	Same as for aphids	Mainly on privet. Spray foliage thoroughly. Do not use DDT on privet.
Yellow-necked caterpillars	Same as for catalpa sphinx	Spray foliage when worms are small.
Zimmerman pine moths	DDT	Spray foliage thoroughly in early August.

* Treatment dates are listed for central Illinois. In southern Illinois apply 2 weeks earlier and in northern Illinois 2 weeks later.

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