

Insects

Azalea Lace Bug

Frank A. Hale, Professor

*Originally developed by Harry E. Williams, Professor Emeritus
Entomology and Plant Pathology*

Since its introduction from Japan in the early 1900s, the azalea lace bug has become a destructive pest of azaleas. Although this bug prefers evergreen azalea varieties, it will infest deciduous varieties. Mountain laurel can also become infested.

The smooth, white egg of the lace bug, which measures approximately 0.4 mm by 0.8 mm, is flask-shaped with the neck to one side. It is usually deposited in the underside tissue of a young leaf along the mid-rib or large vein. Each egg is inserted in the tissue with its neck slightly about the leaf surface.

Female lace bugs lay groups of eggs on the underside of the leaves in September and October. These eggs overwinter and hatch during March and April. The populations build from spring through autumn with about four generations possible. A large population of lace bugs can be established during July, August and September. It is quite possible to find all stages of the lace bug together under a leaf during this time.

The adult lace bug is 1/8 inch long and 1/16 inch wide. It has lacy wings with brown and black markings and light brown legs and antennae. The young nymph lace bug is nearly colorless at hatching but soon turns black and spiny. It sheds its outer skin six times and ranges in size from 0.4 mm to 1.8 mm before becoming an adult.

Injury to the plants is caused by nymphs and adults as they extract sap from the under surfaces of the leaves. The damage appears as spotted discoloration or bleaching of the upper surfaces of the leaves. In severe infestations, the leaves become almost white, many of them drying completely and dropping off. The undersides of the leaves are also disfigured by the black, dry, shiny excrement and cast skins of the insects.



Adult azalea lace bug

Control Measures

Repeated applications of an insecticide are usually needed to effectively control lace bugs. The first application should be made as soon as nymphs appear in the spring, followed by a second application seven to 10 days later. Applications should be repeated at monthly intervals as needed.

Thorough coverage of the undersides of the leaves where the insects are found is essential if good control is to be expected. Select one of the insecticides listed below and follow the label directions. Chlorpyrifos Flagship 2.5 WG, Decathlon 20 WP, Discus, dimethoate, Onyx Pro, Talstar Nursery Flowable, Tame 2.4 EC Spray, Perm-Up, Marathon 60 WP, and Marathon II are for use in commercial nurseries, not for residential use.

- acephate (Orthane Turf, Tree & Ornamental Spray [75% SP]);
- chlorpyrifos (Dursban 50 W [50% WSP]);
- beta-cyfluthrin (Tempo SC Ultra [1 lb/gal SC, Tempo 10 WP Ultra]);
- cyfluthrin (Advanced Garden Lawn & Garden Multi-Insect Killer [0.75% EC], Decathlon 20 WP [20% WP], Tempo 20 WP [20% WP]);
- imidacloprid (Merit 75 WP [75% WP], Merit 2 [2 lb./gal.F], Merit 2.5 G [2.5%G], Marathon 60 WP [60% WP], Marathon II [2 lb./gal.F], Advanced Garden Tree and Shrub Insect Control[1.47% concentrate]);
- thiamethoxam (Flagship 25 WG);
- bifenthrin plus imidacloprid (Allectus SC [4% bifenthrin, 5% imidacloprid]);
- cyfluthrin plus imidacloprid (Advanced Garden Rose & Flower Insect Killer [0.72% cyfluthrin, 0.72% imidacloprid], Discus [0.70% cyfluthrin, 2.94% imidacloprid]);
- disulfoton plus 16-8-8 fertilizer (Advanced Garden 2-in-1 Systemic Azalea, Camellia & Rhododendron Care [1% G]);
- dimethoate (Dimethoate 400 [4 lb/gal EC], Dimethoate 2.67 EC [2.67 lb/gal EC]);
- clothianidin (Arena 0.25 G [0.25%]);
- horticultural oil (SunSpray Ultra-Fine Spray Oil [98% EC], Ultra-Fine Oil [98% EC]);
- bifenthrin (Onyx [2F], Onyx Pro [2F], Talstar One [0.67 lb/gal F], Talstar Nursery Flowable [0.67 lb/gal F]);
- deltamethrin (DeltaGard T&O 5 SC [4.75% SC], DeltaGard GC [4.75% SC]);
- fenpropathrin (Tame 2.4 EC Spray [2.4 lb/gal EC]);
- lambda-cyhalothrin (Scimitar GC [0.88 lb/gal F], Scimitar CS [0.88 lb/gal F]); OR
- permethrin (Astro [3.2 lb/gal EC], Perm-UP [3.2 lb/gal EC]).

Marathon 60WP is for use only on greenhouse and nursery ornamental plants, using soil drenches or through an irrigation system. On stock plants and woody crops with a production cycle of greater than one year, application may not exceed once a year.

Merit 75 WP and Merit 2 can be used on turfgrass, landscape ornamentals and interior plantscapes. It can be applied to the foliage or even more effectively as a soil injection or soil drench. When using a soil injection or soil drench, make application 30 days prior to anticipated pest infestation. The addition of a nitrogen-containing fertilizer, where applicable, into the solution will enhance the uptake of the active ingredient.

Disclaimer

This publication contains herbicide recommendations that are subject to change at any time. The recommendations in this publication are provided only as a guide. It is always the herbicide applicator's responsibility, by law, to read and follow all current label directions for the specific herbicide being used. The label always takes precedence over the recommendations found in this publication.

Use of trade or brand names in this publication is for clarity and information; it does not imply approval of the product to the exclusion of others that may be of similar, suitable composition, nor does it guarantee or warrant the standard of the product. The author(s), the University of Tennessee Institute of Agriculture and University of Tennessee Extension assume no liability resulting from the use of these recommendations.

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