

Problem: Iris borer - *Macronoctua onusta*



Plants Affected: Iris

Description: Overwintering eggs hatch in April and young larvae start to cause damage by feeding on leaf surfaces causing scars. As the larvae grow, they begin to bore into the leaves and start mining downward toward the base of the leaf. Look for small pinholes in leaves, slits, or young leaves notched or with ragged edges. The larvae move toward the base of the plant resulting in a slimy appearance near ground level. Small piles of “sawdust” (frass) may appear near the base of the iris. This is also the time that the rhizomes are hollowed out by the maturing larvae. Larvae are about half-grown (1/2 to 3/4 inches long) when they first enter the rhizomes. Mature larvae have whitish to pinkish bodies with dark brown heads and are about 2 inches long. Pupation starts in August and adults emerge in September and October. The pupal stage normally lasts two to three weeks with the pupa found about 2 inches deep in the soil. The adults are seldom seen because they are nocturnal. Eggs are laid on brown, dried leaves.

Damage by the iris borer is often associated with a disease known as bacterial rot. Wounded rhizomes are easily attacked by this bacterium which results in a foul-smelling decay of the rhizomes.

Recommendations: Removal and burning of dead leaves in the fall will eliminate a number of the iris borer eggs. Larvae can also be killed by hand in June by squeezing infested leaves in the vicinity of the injury. During division, rotted and heavily infested rhizomes should be discarded. Borers in lightly infested rhizomes can be killed by poking them with a piece of wire.

Control can be achieved through the use of imidacloprid (Merit, Bayer All-In-One Rose & Flower Care, Bonide Systemic Granules, Hi-Yield Systemic Insect Granules) or through the use of the parasitic nematodes *Steinernema carpocapsae* or

Heterorhabditis bacteriophora. Imidacloprid should be used as a drench (directions on label) when the air temperature reaches 70 degrees two days in a row.

The parasitic nematodes must be applied when the soil temperature is above 50 degrees F. Use one quart water/nematode mix per square foot to allow the nematodes to swim to the pest. *Steinernema carpocapsae* gave better control (100%) than *Heterorhabditis bacteriophora* (87%) in research conducted by the University of Maryland.

References:

1. [Entomopathogenic Nematodes Control Iris Borer](#), Nursery, Greenhouse and Landscape News, University of Wisconsin, Department of Entomology
2. [Controlling the Iris Borer](#), Iris Garden, www.irisgarden.org

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