

Azalea Caterpillar, *Datana major* Grote & Robinson (Insecta: Lepidoptera: Notodontidae)¹

G. W. Dekle and T. R. Fasulo²

The Featured Creatures collection provides in-depth profiles of insects, nematodes, arachnids and other organisms relevant to Florida. These profiles are intended for the use of interested laypersons with some knowledge of biology as well as academic audiences.

Introduction

The azalea caterpillar, *Datana major* Grote & Robinson, is found in Florida from July through October on azaleas (*Rhododendron* spp.). Often, the caterpillars completely defoliate much of the plant before they are detected. While the caterpillar appears hairy, it is harmless to humans and can be picked off the bushes by hand.

Distribution and Host

The caterpillar is found in Florida as far south as Polk and Hillsborough counties. *Rhododendron* spp. are the only known hosts in Florida. Nationwide, it is limited to the southeastern quarter of the United States as far north as Maryland. The caterpillars seem to prefer indica azaleas, but have been reported on blueberry in Delaware, red oak in Maryland, and andromeda and apple in the mid-Atlantic states (Johnson and Lyon 1991).

Description

Eggs

Eggs (Figure 1) are deposited by the female moth in late spring in masses of 80 to 100 on the underside of the leaf.

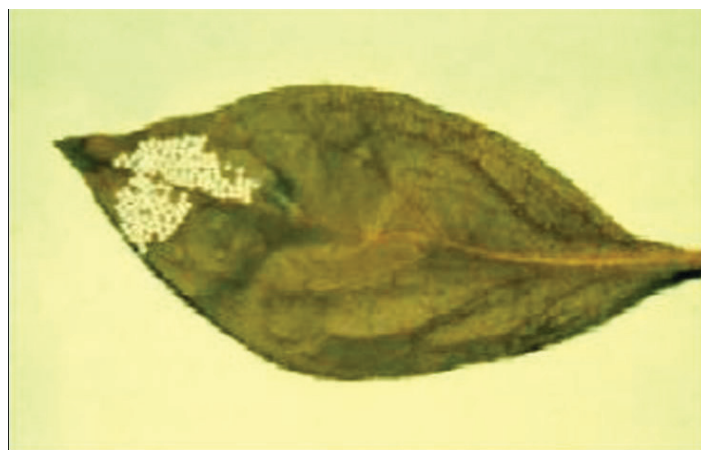


Figure 1. Eggs of the azalea caterpillar, *Datana major* Grote & Robinson.

Credits: James Baker, North Carolina State University

Larvae

The first instar caterpillars feed in a cluster side by side unless disturbed (Figure 2). The first instar caterpillars are approximately $\frac{3}{8}$ inch long after feeding for eight to ten hours. They remain gregarious and soon devour the entire leaf.

1. This document is EENY137 (originally published as DPI Entomology Circular No. 6), one of a series of the Entomology and Nematology Department, UF/IFAS Extension. Original publication date June 2000. Revised April 2017 and December 2023. Visit the EDIS website at <https://edis.ifas.ufl.edu> for the currently supported version of this publication. This document is also available on the Featured Creatures website at <http://entnemdept.ifas.ufl.edu/creatures/>.

2. G. W. Dekle, Florida Department of Agriculture and Consumer Services, Division of Plant Industry; and T. R. Fasulo, Entomology and Nematology Department; UF/IFAS Extension, Gainesville, FL 32611.



Figure 2. Young larvae of the azalea caterpillar, *Datana major* Grote & Robinson.

Credits: James Baker, North Carolina State University

The first instar caterpillar is yellow with seven red longitudinal stripes and a black head. As the larva matures it becomes highly colored. The mature caterpillar is about two inches long and predominately black, with a red last segment and eight broken yellow (occasionally white) lengthwise stripes (Figure 3). The head and legs are mahogany-red.



Figure 3. Mature larva of the azalea caterpillar, *Datana major* Grote & Robinson.

Credits: University of Florida

Adult

The adult moth (Figure 4) is light brown with a wing span of 1 ¾ inches.



Figure 4. Adult of the azalea caterpillar, *Datana major* Grote & Robinson.

Credits: James Baker, North Carolina State University

Field Observations

The semi-skeletonized leaves dry up, turn brown, and remain on the plant for several days. If disturbed some of the caterpillars drop one or two inches below the infested leaf and hang by a silken thread. When it is disturbed, the caterpillar raises its front and rear ends into the air. Young larvae skeletonize the leaves and the larger ones eat the entire leaf. In some parts of the South there may be a partial second generation, but one generation is usually the rule. It is thought to overwinter in the pupal stage (Johnson and Lyon 1991).

Damage

Most of the damage in the southeast United States occurs in August and September, but in Florida it continues through October (Johnson and Lyon 1991).

Management

Landscape Integrated Pest Management

Natural Products for Managing Landscape and Garden Pests in Florida

Selected References

Baker, James R. Azalea Caterpillar. Insect and Related Pests of Shrubs. (No longer available online)

Johnson, W.T., H.H. Lyon, C.S. Koehler, and J.A. Weidhass. 1991. Insects That Feed on Trees and Shrubs. Cornell University Press, Ithaca, NY. 600 p.