

# False Oleander Scale, *Pseudaulacaspis cockerelli* (Cooley) (Insecta: Hemiptera: Coccoidea: Diaspididae)<sup>1</sup>

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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**

False oleander scale, an armored scale, was first described in California from palms taken in quarantine from China. It was first found in Florida at Meade Gardens, Winter Park, Orange County, by J. R. Springer on sweetbay (*Magnolia virginiana* L.) in 1942. In 1953, G. B. Merrill reported the distribution in Florida as Orange and Leon counties. It is now widespread in Florida, Georgia, and Alabama, and probably occurs in all of the Gulf States.

This scale formerly was referred to as magnolia white scale (*Phenacaspis natalensis* Ckll.) and oleander scale (*Phenacaspis cockerelli* (Cooley)).

## **Description**

The female armor is pear-shaped, glossy white, and 2 to 3 mm ( $\sim$ 1/16 to 1/8 in) long. The exuviae are terminal and yellowish brown. The size of the female scale may vary with the host. For example, it is slightly smaller on palmetto than on aucuba. The male armor is elongate, snow-white, feebly tricarinate, and about 1 mm ( $\sim$ 1/32 in) long. The male

exuviae are terminal with a faint yellowish tinge. Males usually occur in clusters on the leaf.

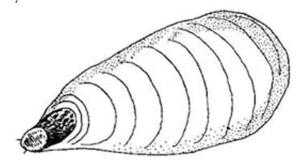


Figure 1. False oleander scale.

## **Economic Importance**

False oleander scale has become an economic pest of many of the major ornamental plants found in Florida commercial nurseries. The rapid distribution throughout Florida can be attributed to the movement of infested nursery stock.

The scale tends to confine itself to feeding on foliage and rarely attacks tender shoots or fruit. Its feeding causes chlorotic spots that are visible on the upper leaf surface. These spots are usually several times larger than the scale. Heavy infestations cause the entire leaf to turn yellow and drop prematurely.

- 1. This document is EENY-149, one of a series of the Department of Entomology and Nematology, UF/IFAS Extension. Original publication date August 2000. Revised January 2015, March 2021, and November 2024. Visit the EDIS website at https://edis.ifas.ufl.edu for the currently supported version of this publication.
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Figure 2. Females of the false oleander scale, *Pseudaulacaspis cockerelli* (Cooley).

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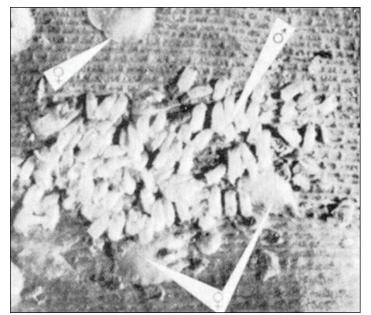


Figure 3. Cluster of male false oleander scales, *Pseudaulacaspis cockerelli* (Cooley), on leaf of bird-of-paradise. A few female scales are present.

Credits: Division of Plant Industry

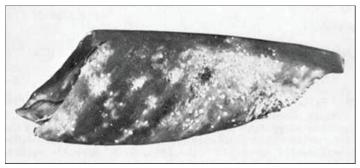


Figure 4. False oleander scales, *Pseudaulacaspis cockerelli* (Cooley), on leaf of bird-of-paradise.

Credits: Division of Plant Industry

#### **Hosts**

False oleander scale is probably not a good name as this species has over 100 plant species recorded as hosts in Florida (Dekle 1976). These include: *Magonolia grandiflora*,

magnolia; Magonolia virginiana, sweetbay; Aucuba japonica; Strelitzia spp., bird-of-paradise; Hedera helix; Cornus florida, flowering dogwood; Taxus spp.; Nerium oleander, oleander; Michelia figo, banana shrub; Elaesgnus spp.; and Sabal mexicana, a palmetto (Merrill 1953; Johnson 1991). This scale is also an important pest of Mangifera indica, mango (Crane 2006).

## **Survey and Detection**

- All life stages of the scale may be found throughout the year.
- Visually inspect both leaf surfaces.
- If necessary for identification, submit adult female specimens attached to the host plant in a plastic bag or envelope to either DPI or your local UF/IFAS Extension office.

## Management

Scales, especially armored scales, are very difficult to control when mature. Examine plants for live scales by crushing the wax cover. Dead scales do not fall from plants. Select pesticides that have the least effect upon other non-target organisms. For established infestations, apply a second application in two weeks. Horticultural oils are often effective and relatively safe on beneficial organisms. Time sprays to coincide with the crawler stage, which is most susceptible to insecticides.

For more information see:

Mango Pests and Beneficial Insects

## **Selected References**

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