

Common Name: The Horntail Snail

*Macrochlamys
indica* Benson 1832
(Ariophantidae)



Photo by Suhayla Carrasquilla



The Horntail Snail

- August 2020, a gastropod enthusiast collected unusual snails in Coconut Grove, Miami-Dade County.
- Identified by University of Florida as *Macrochlamyis indica* Benson (Ariophantidae), a pest snail native to India.
- Identity confirmed by USDA-APHIS and DPI.
- Continental Record



Horntail Snail



Source: Florida Land Snail Gallery & Mary Young Cong

Horntail Snail – Current Situation

- Boots on the ground approach:
 - Half mile surveys around positive finds
 - Two K-9 units in the field for detection.
 - Working on traceback and trace forward with landscape companies and nurseries who service the area
- Active lab research going on to determine more information about lifecycle, birth, and habits of the horntail snail.
- Molluscicide and bait trials are on-going to determine best choice for snail eradication and control.





Florida Department of Agriculture and Consumer Services
Division of Plant Industry

COMPLIANCE AGREEMENT / PHYTOPHAGOUS SNAILS

NICOLE "NIKKI" FRIED
COMMISSIONER

Section 581.031(26), F.S.

P.O. Box 147100, Gainesville, FL 32614-7100 / Phone: (352) 395-4700

1. NAME AND MAILING ADDRESS OF PERSON OR FIRM		2. LOCATION ADDRESS	
Registration #		Location #	
3. REGULATED ARTICLE(S): All life stages of the phytophagous snails, plants, plant parts, yard waste and any article capable of transporting or harboring plant feeding snails including debris, compost, and building materials (bricks, tiles, concrete).			
4. APPLICABLE STATE QUARANTINE(S) OR REGULATIONS: 570.32, 581.031 (1) (7), 581.091(1)(2)(3), 581.101, Florida Statutes, and Chapter 5B-43, Florida Administrative Code.			

I / we agree to handle, pack, process and move regulated articles in accordance with applicable plant quarantines; use all permits and certificates in accordance with instructions; maintain and offer for inspection such records as may be required; and abide by the following stipulations:

In order to limit the artificial spread of phytophagous snails, (plant feeding snails), regulated establishments agree to abide by the following conditions as required by the Florida Department of Agriculture and Consumer Services (FDACS):

1. Maintain regulated articles and areas where they are kept free of weeds, debris, or other material which are good habitats for, and may harbor, plant feeding snails.
2. Establishment will educate and train appropriate personnel on recognizing signs and symptoms of phytophagous snails and basic visual identification to include but not limited to hornail snail, giant African land snail and brown garden snail.
3. Apply a labeled molluscicide containing metaldehyde at a minimum of 3.25% active ingredient to the premises including containers at the recommended rate and frequency.
4. Regulated debris and articles of refuse removed from the property will be disposed of at an approved solid waste facility. Approved solid waste disposal facilities will be made available via the FDACS Helpline at 888-397-1517, or on the division's website: <https://www.fdaes.gov/Divisions-Offices/Plant-Industry/Pests-Diseases/Giant-African-Land-Snail/Eradication-Updates-and-Information>
5. Provide written records upon request of incoming and outgoing plant material, training records, pesticide records, and scouting records and allow authorized representatives of the FDACS to conduct site inspections of regulated articles.
6. Violation of any stipulation of this agreement may result in prosecution as provided by sections 581.141 and 581.211, F.S.

5. SIGNATURE	6. TITLE	7. DATE SIGNED
The affixing of the signatures below will validate this agreement, which shall remain in effect until canceled, but may be revised as necessary or revoked for noncompliance.		8. AGREEMENT NO.
		9. DATE OF AGREEMENT
10. OFFICIAL (Name and Title)		11. ADDRESS
12. SIGNATURE		

FDACS-08080 09/20



Nursery Protocol for Positive Nursery

- Hold Order and Quarantine issued on nursery stock for 30 days
- Complete Phytophagous snail compliance agreement
- 15 day compliance inspection
- Full nursery inspection and witnessing treatment/review of treatment records
- No snail detection, final inspection date set
- Live snail detection, reset 30 day Hold Order and Quarantine



Nursery Protocol ½ Mile Radius of Positive Find

- Complete Phytophagous Snail compliance agreement
- 30 day compliance inspections
- Review treatment records



Nursery Report

- 160 nursery locations inspected
- 25 nursery locations with live snail detections
- 338 snails collected
- 6 Hold Order and Quarantines released



Residential Report

- 673 residential properties surveyed
- 53 residential properties with live snail detections
- 1,189 snails collected
- 336 metaldehyde applications



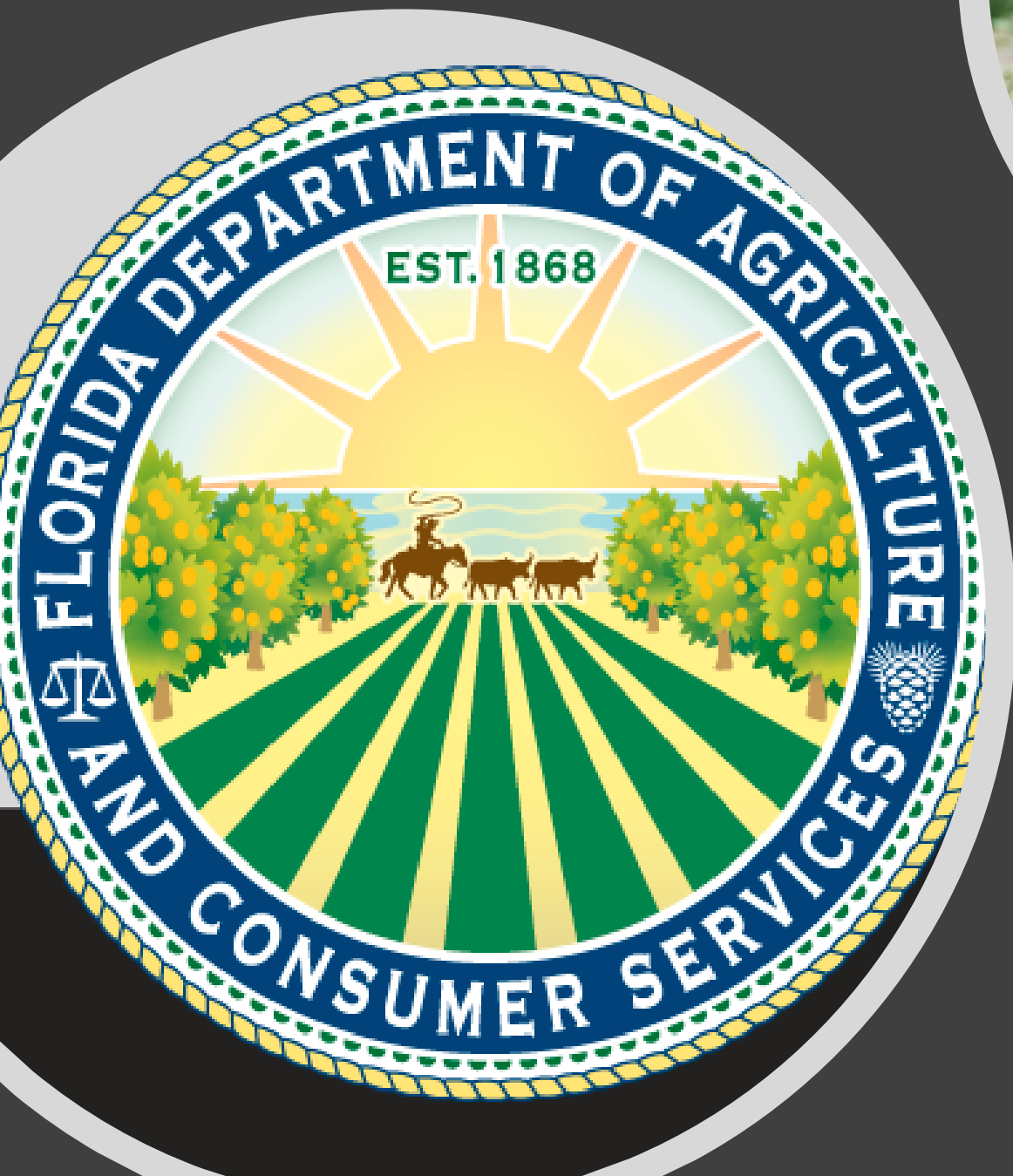


Photo by M. Yong Cong



Report any sightings of the horntail snail

DPI Helpline

1-888-397-1517