

Structural Entomology at UGA

2021 GMCA Annual Meeting

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Center for Urban Agriculture
College of Agricultural & Environmental Sciences
UNIVERSITY OF GEORGIA

Center for Urban Ag Resources

1. *Getting the Best of Pests* Webinars for Commercial & Private applicators, and Pest Control Operators
2. Use of Webinar Recordings (housed at GTBOP.COM); 50 recordings, including 11 that provide 1 h Category 41.

Face to Face Training Workshops:

CEUs for Pest Control Operators ONLY

1. Bed Bugs, Commercial Pest Control:
February
2. Home Pest Control, School Pest
Control: August
3. Termite Control: March and
September

Bed Bug Training



We don't the Asian Giant Hornet in GA.

- Native to East Asia, South Asia, Mainland Southeast Asia, parts of the Russian Far East
- Outside its native range, it has been detected in Washington state and British Columbia (Canada)
- **It HAS NOT been found in any US state other than Washington.**



Allan Smith-Pardo, USDA APHIS PPQ,
Bugwood.org

Cicada Killers





European Hornet

Vespa crabro

1549493

Queen Yellow Jackets



Have you Seen Me?

Joro Spider

Trichonephila clavata

- Related to the Golden silk orbweaver
- Found in Georgia in 2014
 - Jackson County
 - Barrow County
 - Madison County
- Lacks the “tufts” found on the legs of the native species



Photo by Nancy Hinkle, UGA

Orb Weavers



Photo by Bill Allen, Athens

Joro spider

Orb Weavers



Black-and-yellow Argiope

Golden Silk Orbweaver Spider

Trichonephila clavata



Photo provided by John Pope, Athens



Golden silk

Photo provided
by John Pope,
Athens




Joro

Photo by Bill
Allen, Athens

Comparison of Spiders

Fire Ants

The Texas “Two Step”
to Control them in Yards

A photograph of a grassy field with a prominent mound of reddish-brown soil in the center. The mound is surrounded by green grass and some dry, brownish vegetation. The background shows more of the field and some trees in the distance.

Step 1: BAITING. Broadcast granular bait
OR place a handful around (not on top of)
each mound. Apply bait in late afternoon,
when it's cool and ants are actively
foraging. DO NOT disturb mound.

Step 2: MOUND TREATMENTS. week
after bait treatment, locate active mounds
and treat each mound with liquid drench (1
gal or more through center of active
mound).

OTC

Fire

Ant

Baits



0.036% hydramethylnon
& 0.0172% methoprene

0.008% indoxacarb



0.73% hydramethylnon



Granular formulations (left) are not eaten by fire ants,
as are granular baits (right).

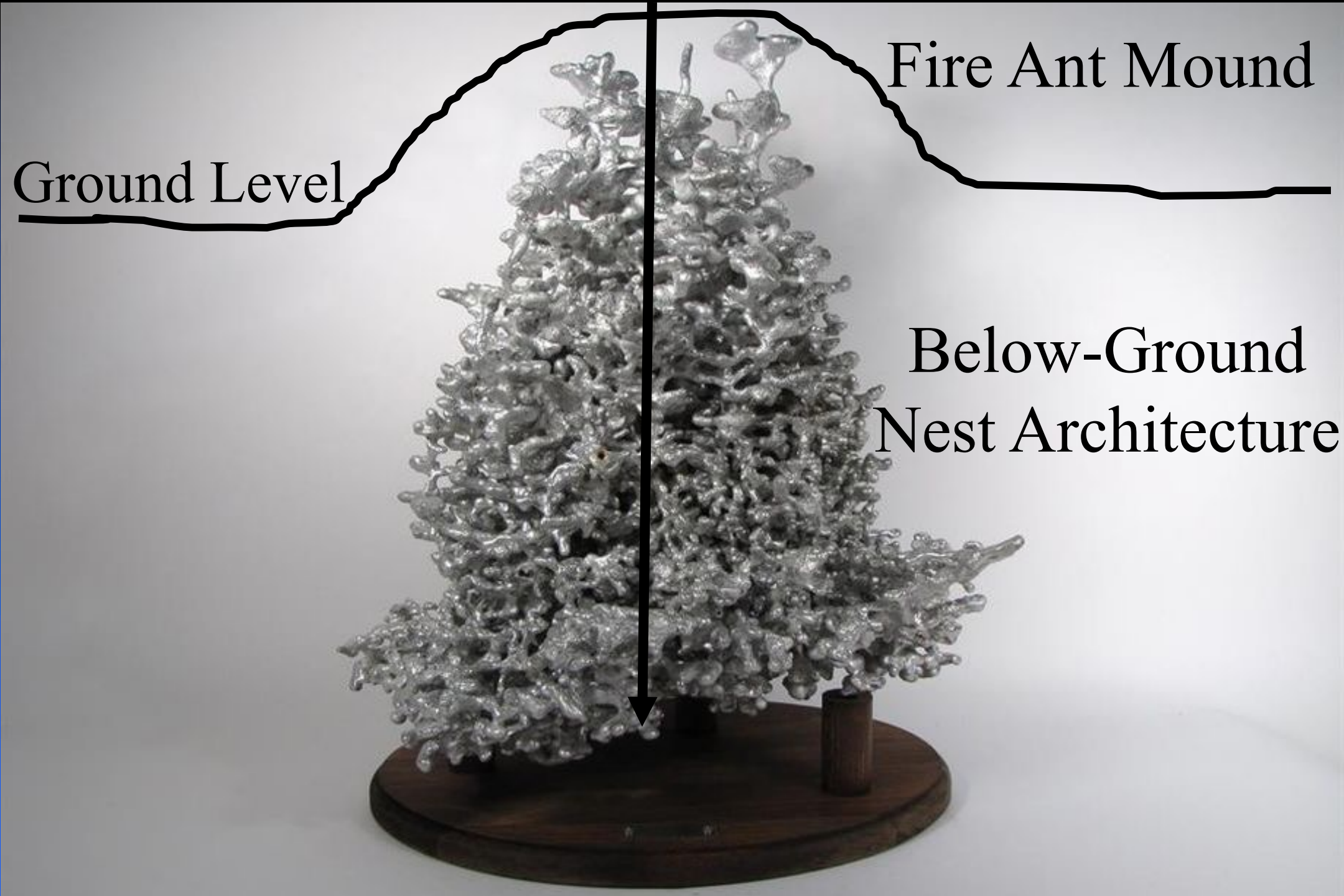
A photograph of a grassy field with a prominent mound of reddish-brown soil in the foreground. The mound is conical and appears to be an ant nest. The surrounding area is covered with green grass and some dry, brownish vegetation. In the background, there are more trees and foliage.

Step 1: BAITING. Broadcast granular bait OR place a handful around (not on top of) each mound. Apply bait in late afternoon, when it's cool and ants are actively foraging. DO NOT disturb mound.

Step 2: MOUND TREATMENTS. One week after bait treatment, locate active mounds and treat each mound with liquid drench (1 gal or more through center of active mound).

Insert 3 ft. long rod until it'll go no further, remove, and pour in 1-2 gals of diluted, liquid insecticide to kill ants by contact





Fire Ant Mound

Ground Level

Below-Ground
Nest Architecture

Two “New” Ant Pests in Georgia

Asian Needle ant
Tawny Crazy ant



Brachyponera chinensis

Asian Needle ant





The Asian
Needle ant
nests in and
under yard
debris.



The Tawny Crazy Ant

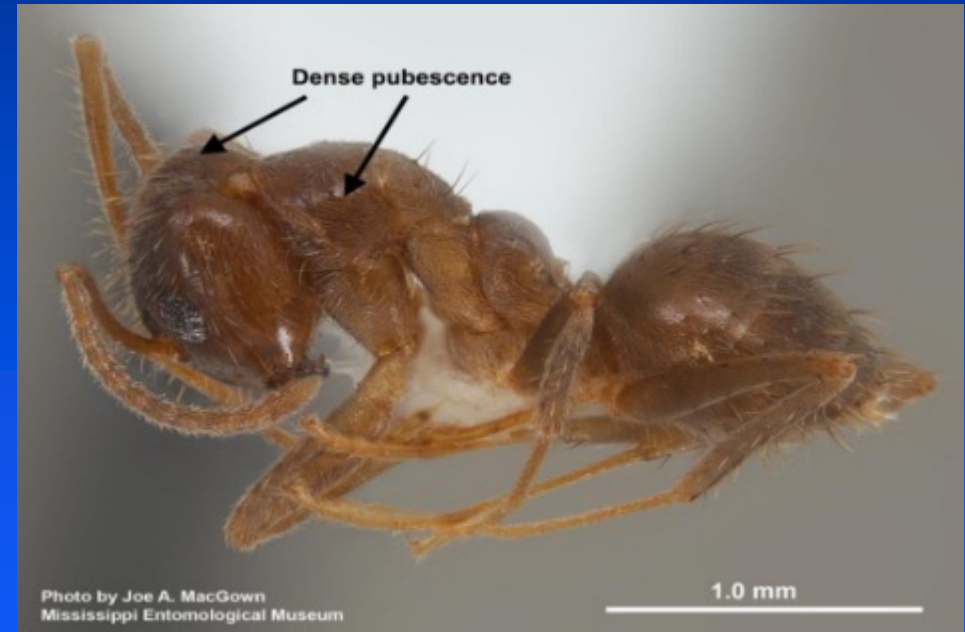
Nylanderia fulva

An Emerging Ant Pest Problem in
Georgia and the Southeast

Introduced Ants of the Southeast United States

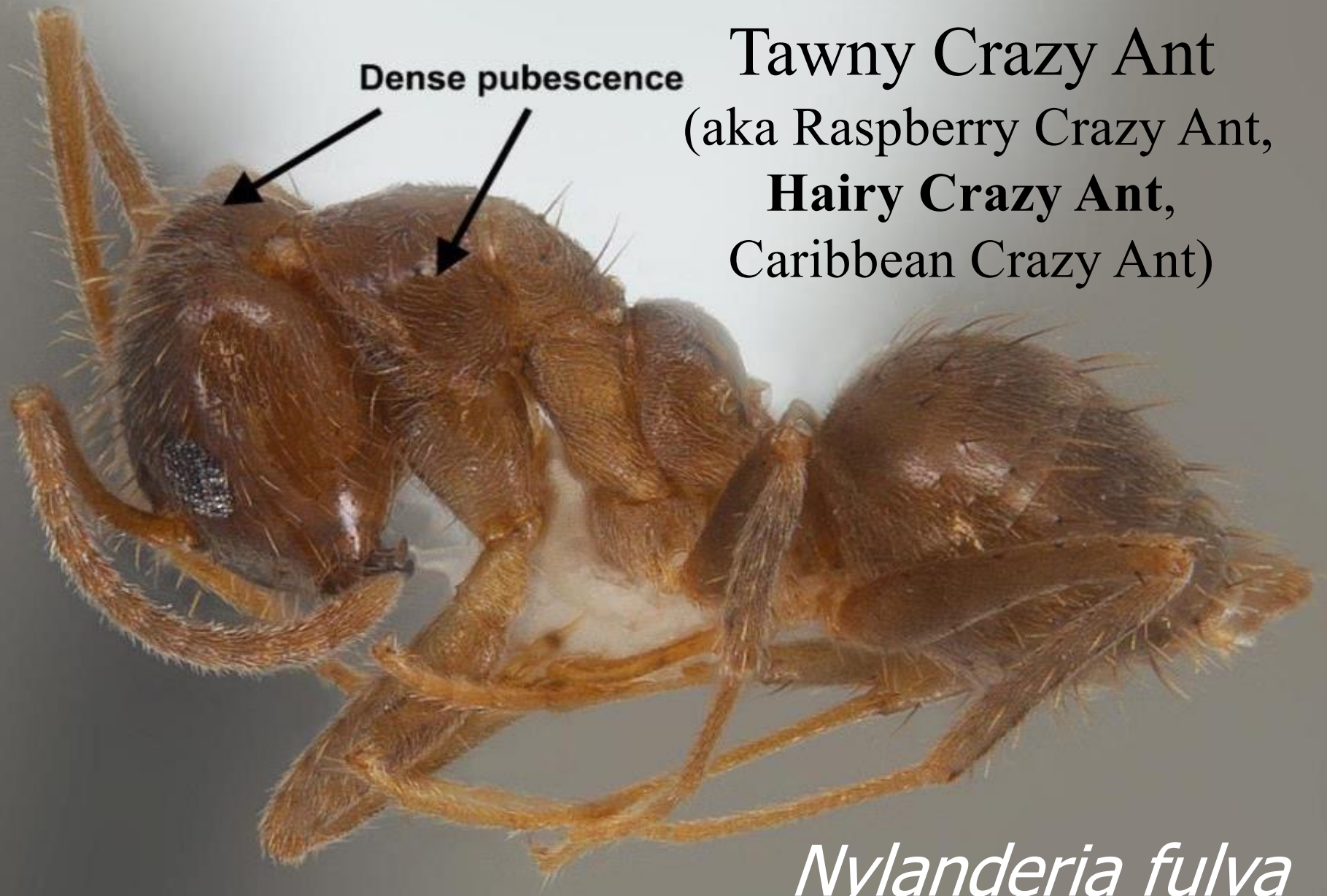
Nylanderia fulva
Tawny Crazy ant

- Introduced into FL and TX from South America.
- Major pest where found (FL, TX, MS, LA, GA).
- SC and NC? Not yet



Tawny Crazy Ant
(aka Raspberry Crazy Ant,
Hairy Crazy Ant,
Caribbean Crazy Ant)

Dense pubescence



Nylanderia fulva

1.0 mm

Photo by Joe A. MacGown
Mississippi Entomological Museum

Tawny Crazy Ant



Multiple queens

No competition or delineation between colonies

Mate in the colony (no mating flight)

Can number hundreds of thousands in a meter²



TCA in Georgia 2021

2013: Albany (Dougherty Cty)

2014: Camden & Glynn Cty

2015: Garden City (Chatham Cty),
Quitman (Brooks Cty),
Valdosta (Lowndes Cty).

2016 - 2021: None I'm aware of.

