

Eastern NC Nursery & Greenhouse News

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Granulate Ambrosia Beetle Update

Recent Wilson, NC trap counts with days near, at, or above 70 degrees F:

February 18 - 2 collected after 3 days
February 23 - 10 collected after 3 days
March 7 - 65 collected from 3-5 days

-The central eastern NC forecast (Wilson) is for the next 10 days to be near, at, or above 70 degrees F starting on March 15. That means that by March 17-18 significant GAB flights will begin again and will continue at least through March 25 based on the current forecast.

-This week (March 14-18) is a key window if you want to protect stressed trees (excess water/poor drainage and cold injury are the key stressors this time of year, nutrient deficiencies as well).

-References

<https://content.ces.ncsu.edu/granulate-asian-ambrosia-beetle>

<https://content.ces.ncsu.edu/granulate-asian-ambrosia-beetle-1>

<https://content.ces.ncsu.edu/granulate-asian-ambrosia-beetle-trapping>

<https://ecoipm.org/tag/ambrosia-beetles/>

Red-Headed Flea Beetles (RHFB)



It won't be too much longer before RHFB larvae like the one above hatch from overwintering eggs laid in container plant nursery substrate.

-Current Growing Degree Days base 50 degrees F (GDD):

~150-200 GDD for most of central eastern NC (Raleigh, Tarboro, Smithfield, Wilson, Goldsboro, Fayetteville)

~300 GDD for southeastern NC (Wilmington area)

-RHFB eggs hatch and larvae emerge usually between 250 and 400 GDD depending on overwintering practices.

-If looking to apply imidacloprid, thiamethoxam, dinotefuran, cyantraniliprole, azadirachtin, or flupyradifurone (products that have worked well in my nursery research trials) as a substrate treatment (drench or granular topdress depending on product) prior to egg hatch to control larvae, now is the time. This is particularly important for plants that were infested last year and may remain on site into June.

-To protect historically damaged crops when potting, granular imidacloprid products can be incorporated into substrate or top-dressed for long term control as part of a RHFB IPM program.

I'll be speaking more about developing an integrated pest management plan for RHFB on March 22 at the Johnston County Nursery Association (JCNA) Meeting. The meeting will be at 6 pm at the Johnston County Agricultural Center, 2736 NC Hwy. 210, Smithfield 27577. Learn more about JCNA and how to join in the next article.

-References

<https://wilson.ces.ncsu.edu/2021/10/red-headed-flea-beetle-management-in-container-nursery-production/>

<https://wilson.ces.ncsu.edu/2021/12/topdressing-granular-imidacloprid-to-reduce-red-headed-flea-beetle-injury/>

<https://wilson.ces.ncsu.edu/2021/10/incorporating-granular-imidacloprid-in-ornamental-container-nursery-substrate-to-reduce-red-headed-flea-beetle-injury/>

Johnston County Nursery Association

The Johnston County Nursery Association (JCNA) seeks to educate and promote the Green Industry in Johnston County, North Carolina and surrounding areas. Members can include any industry professional or student who is interested in promoting and learning more about the horticulture industry. Monthly meetings can include keynote speakers such as University professors, chemical company representatives, researchers, experienced panelists and more. Summer meetings include tours of premier nurseries in central North Carolina. Members of the JCNA will enjoy the benefits of networking with industry professionals, acquiring required pesticide credits and learning the most up to date information on new products and plants. *Membership dues are \$40 per year and can be paid by following the instructions on [the JCNA Membership Dues Form](#).*

2022 NC Agricultural Chemicals Manual

The new NC Agricultural Chemicals Manual is available [online](#). If you need information about pesticide safety, chemical application equipment, how to send disease, insect, or weed samples for identification, fertilizer use, insects, weeds, plant growth regulators, animal damage control, or disease control, the [NC Agricultural Chemicals Manual](#) has it.

Grower Talks Grower Guides

If you are looking for information focused on greenhouse annual and herbaceous perennial production, the [Grower Talks Grower Guides](#) have information about perennial PGRs, indoor lighting, PGRs for annuals, and an insecticide, miticide, and fungicide guide.

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