

Coriander Aphid

Hyadaphis coriandri



Image credit: Jeffrey Lotz, Division of Plant Industry



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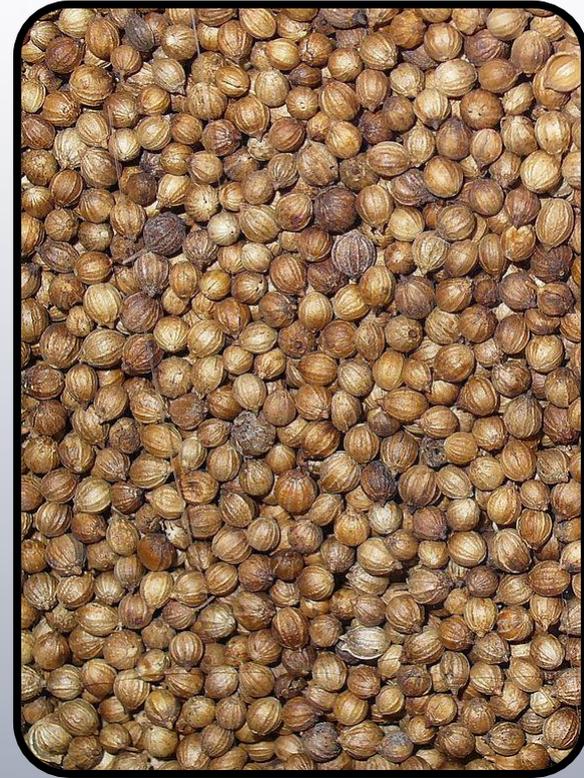


Introduction

- Native to Central Asia
- First found in North America (Florida) in 1997 in the Orlando area



cilantro



coriander

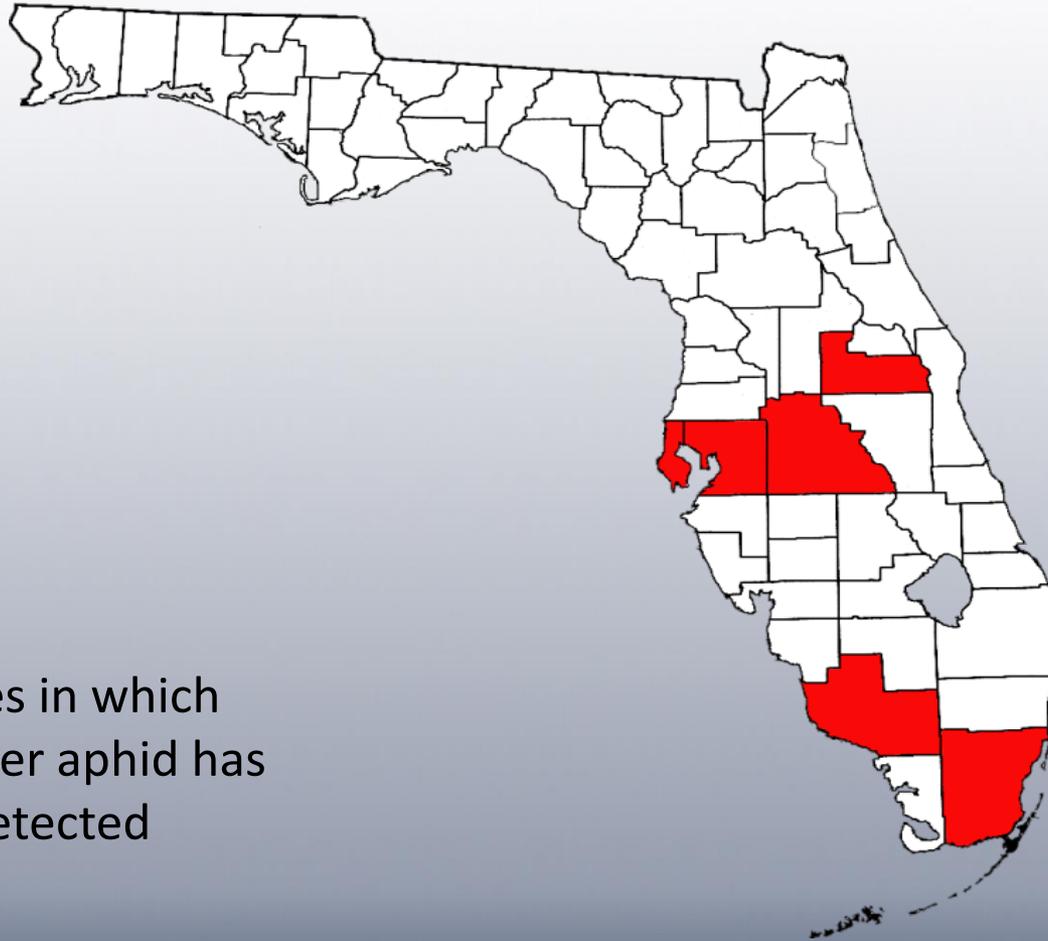
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Distribution in the Florida



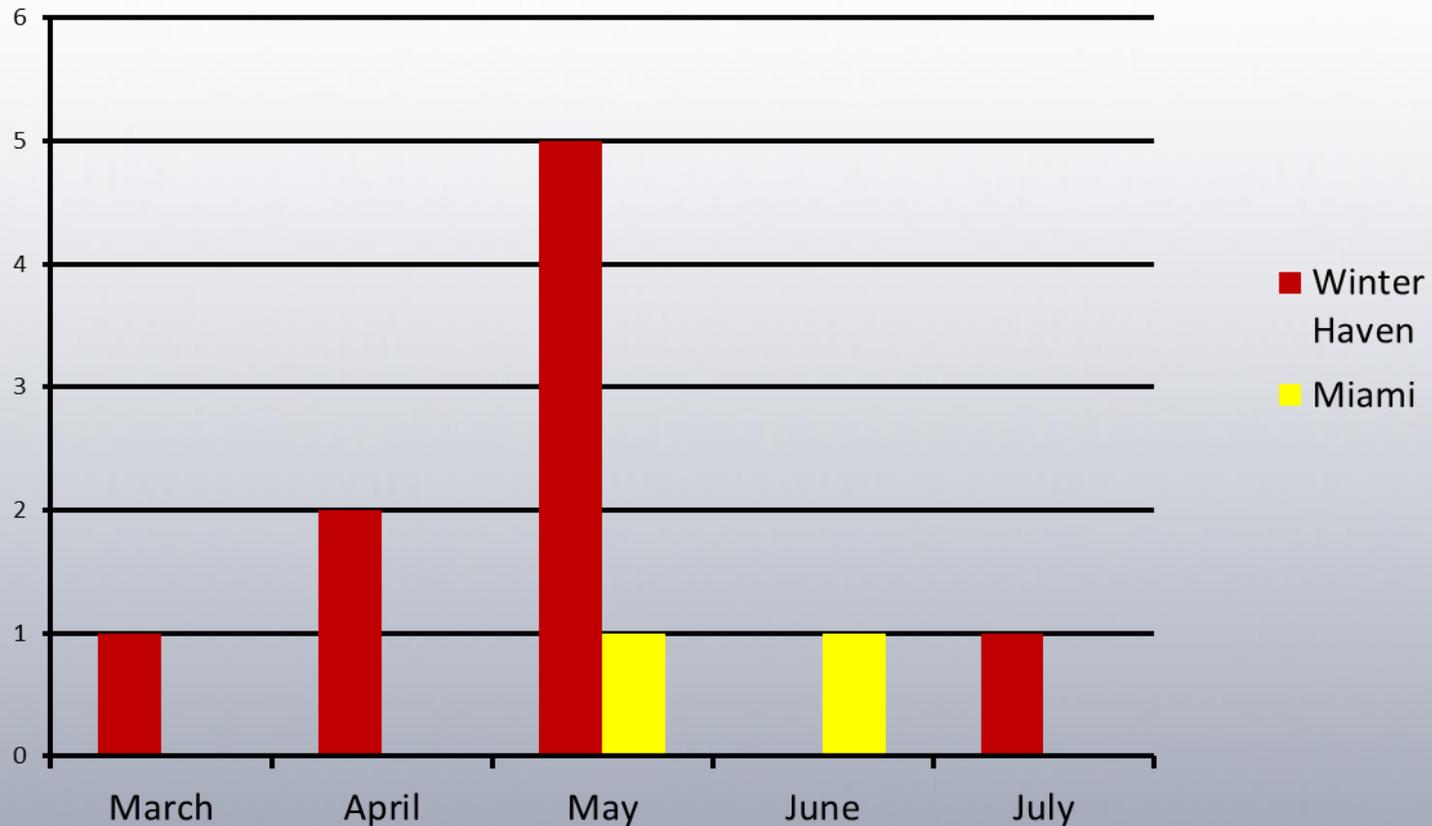
Counties in which
coriander aphid has
been detected



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FDACS/DPI Suction Trap Survey



Note: One specimen also collected in Immokalee in October



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Life History

- Host alternating aphid
 - Overwinters in egg stage on *Lonicera* spp.
 - Moves to Umbelliferae in the spring and summer
- In the spring, there are parthenogenetic females
 - Winged and wingless forms
- In the fall, winged males and winged parthenogenetic females are produced
 - These winged parthenogenetic females produce egg laying females that will mate with the winged males
 - Eggs will overwinter until spring



Hosts

- The winter host in its native range does not occur here, but we have at least 45 species of honeysuckle in the U.S.
 - Does Florida even need a winter host?
- Summer hosts include:
 - Carrot
 - Celery
 - Fennel
 - Parsley
 - Coriander or cilantro



Identification

- **Colonizing wingless adults** should be used for identification
- Winged aphids often are hitchhikers and are not reliable for identification by non-specialists



Image credit: Jeffrey Lotz, Division of Plant Industry



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Damage

- Damage to leaves and stems make the plant unmarketable
- Damage to flowers lowers the seed yield and causes deformed seeds to form which makes the seeds unmarketable



Damage to fennel plant by coriander aphids

Image credit: Jeffrey Lotz, Division of Plant Industry



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Scouting and Management

- Scout plants weekly for this aphid pest
- Removing crop residue can help control aphid populations
- Limited use of insecticides helps preserve natural enemies which can control aphids at low populations
- At high populations, systemic insecticides or those with translaminar penetrating activity are effective



Other aphids found on these hosts



honey suckle witches' broom aphid



coriander aphid



honey suckle aphid

Image credit: coriander aphid- Jeffrey Lotz, Division of Plant Industry; honey suckle witches' broom aphid - Joseph Berger, Bugwood.org, #5394423; honey suckle aphid - Andy Jensen, Aphidman - <https://www.flickr.com/photos/sandnine/>



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Other aphids found on these hosts



green peach aphid



coriander aphid



rice root aphid

Image credit: coriander aphid- Jeffrey Lotz, Division of Plant Industry; *green peach aphid* - David Cappaert, Michigan State University, Bugwood.org, #5422731; rice root aphid – Bains Singh - <http://bainsrajinder.blogspot.com/2010/02/aphid-attack-on-wheat-rhopalosiphum.html>



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Collaborating Agencies

- U.S. Department of Agriculture Animal and Plant Health Inspection Service (USDA-APHIS)
- Cooperative Agricultural Pest Survey Program (CAPS)
- Florida Department of Agriculture and Consumer Services (FDACS)
- National Plant Diagnostic Network (NPDN)
- Sentinel Plant Network (SPN)
- Protect U.S.
- University of Florida Institute of Food and Agricultural Sciences (UF-IFAS)



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Educational Disclaimer and Citation

- This presentation can be used for educational purposes for NON-PROFIT workshops, trainings, etc.
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