Coriander Aphid

*Hyadaphis coriandri*

Image credit: Jeffrey Lotz, Division of Plant Industry
Introduction

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

Image credit: WikiMedia Commons

Cilantro (coriander)
Distribution in the Florida Counties in which coriander aphid has been detected
Note: One specimen also collected in Immokalee in October
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
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

Image credit: Jeffrey Lotz, Division of Plant Industry

Damage to fennel plant by coriander aphids
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

honesuckle witches' broom aphid

Coriander aphid

Honesuckle aphid

Image credit: coriander aphid - Jeffrey Lotz, Division of Plant Industry; honeysuckle witches' broom aphid - Joseph Berger, Bugwood.org, #5394423; honeysuckle aphid - Andy Jensen, Aphidman - https://www.flickr.com/photos/sandnine/
Other aphids found on these hosts

- **green peach aphid**
- **coriander aphid**
- **rice root aphid**
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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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• Citation:
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