

## Ayudas taxonómicas en internet

La siguiente información ha sido compilada por Allan Smith, USDA, APHIS, San Francisco, California y Terrence Walters, USDA APHIS, Fort Collins, Colorado, USA.

### **Longicorn ID**

Tool for Diagnosing Cerambycoid Families, Subfamilies, and Tribes

Authors: Eugenio H. Nearn, Nathan P. Lord, Steven W. Lingafelter, Antonio Santos-Silva, and Kelly B. Miller

CPHST is pleased to announce the release of the first phase of its newest identification tool, *Longicorn ID: Tool for Diagnosing Cerambycoid Families, Subfamilies, and Tribes*, developed through collaboration between CPHST and University of New Mexico. Cerambycoid beetles include the large family Cerambycidae and three smaller families: Disteniidae, Oxypeltidae, and Vesperidae. Together, these families are a charismatic and economically important group of beetles with an estimated 4,000 genera and 35,000 described species worldwide. When all three phases are complete, *Longicorn ID* will provide identification support to the four families, 14 subfamilies, and 250 tribes.

*Longicorn ID* was uploaded to the internet for easy access by PPQ and cooperators in August 2012 and can be accessed at: <http://cerambycids.com/longicornid/>

Cerambycoids (also known as “longhorned beetles” or simply “longicorns”) are among the most serious wood-boring pest species in the world, affecting various agricultural crops, ornamental trees, and lumber products, causing millions of dollars in damage each year.

Due to the large size of this group of beetles, the development of *Longicorn ID* has been broken up into three phases. The first phase, available now, contains identification keys to the

families and subfamilies, as well as keys to the tribes of cerambycoid beetles except for the three largest subfamilies of Cerambycidae: Lamiinae, Lepturinae, and Cerambycinae. Together, these three subfamilies comprise about 90% of the species diversity of the family. Identification keys to the tribes of Lamiinae and Lepturinae are scheduled for release in December 2013, and a key to the tribes of Cerambycinae is scheduled for release in December 2014.

The developers of *Longicorn ID* would appreciate receiving any comments about the value and usefulness of this tool and learning of any problems you encounter when accessing or using the tool. Please contact Eugenio Nearn (email gino@nearns.com) with any comments or questions.

For more information about other CPHST identification resources and tools for plant protection and quarantine, contact Amanda Redford (email amanda.j.redford@aphis.usda.gov). To find other identification aids for cerambycid beetles, visit ID Source - Cerambycidae. To view other identification tools developed by the CPHST ITP team, visit ID Source - ITP.

### **Citrus Pests**

Authors: Sarahlyne Guerrero, Jennifer Weeks, Amanda Hodges, Kirk Martin, and Norman Leppla

CPHST's Identification Technology Program is pleased to announce the release of the final *Citrus Resource* tool, *Citrus Pests*. Developed through collaboration among CPHST, University of Florida, and Southern Plant Diagnostic Network, *Citrus Pests* offers screening support for over 50 important insect pests of citrus. *Citrus Pests* is aimed primarily at extension agents, inspectors, and other plant professionals with access to a light microscope and hand lens. It is designed to help users determine which type of citrus insect pest they have encountered by featuring an interactive key coupled with illustrated, descriptive fact sheets for each pest. *Citrus Pests* also offers users a wide variety of other resources to aid inexperienced users in the identification of insect pests of citrus, including a comprehensive image gallery that can be filtered by insect type or life stage, an insect morphology tutorial, and a detailed glossary.

<http://idtools.org/id/citrus/pests>

*Citrus Resource* now offers users a comprehensive identification resource for citrus commodity surveys. The resource was created to provide growers, the industry, and those associated with citrus pest and disease detection an easily accessible site to assist with their identification needs. *Citrus Resource* includes three stand-alone tools to support citrus commodity surveys: *Citrus Pests*, a symptom-based tool for diseases (*Citrus Diseases*), and one for over 500 citrus cultivars grown in the United States (*Citrus ID*). Each tool includes an interactive matrix-based key, fact sheets, an image gallery, and other pages designed with the user in mind. *Citrus Resource* links directly to all three tools, offers instant access to each tool's filterable image gallery, and includes background information about citrus as a commodity in the United States.

The developers of Citrus Pests would appreciate receiving any comments about the tool's value and usefulness and learning of any problems you encounter when accessing or using the tool. Please contact Amanda Hodges (email [achodges@ufl.edu](mailto:achodges@ufl.edu)) with any comments or questions about tool content, or Amanda Redford (email [amanda.j.redford@aphis.usda.gov](mailto:amanda.j.redford@aphis.usda.gov)) with accessibility, functionality, or other website issues. For more information about other CPHST identification resources and tools for plant protection and quarantine, contact Amanda Redford. To find other identification aids for citrus insect pests, visit [ID Source - citrus insects](#). To view other identification tools developed by the CPHST ITP team, visit [ID Source - ITP](#).

## **AphID**

CPHST's Identification Technology Program (ITP) is pleased to announce the release of its latest identification tool, AphID. AphID is intended to help US port identifiers, quarantine officers, and anyone seeking a preliminary but relatively simple way to identify aphids. A total of 66 aphid species are treated. AphID includes the 38 polyphagous aphid species in the three seminal works by Roger Blackman and Victor Eastop (*Aphids on the World's Crops*, *Aphids on the World's Trees*, and *Aphids on the World's Herbaceous Plants and Shrubs*). The remaining aphids represent the 28 species most frequently intercepted at U.S. ports of entry that are not already represented on the Blackman & Eastop list. AphID was developed through collaboration among CPHST, USDA-ARS, University of Maryland, and Université de Montréal. The

tool includes an interactive identification key to the winged and wingless morphs of the 66 species, descriptive pages with detailed imagery of each species, and an in-depth glossary and morphology tutorial.

The developers of AphID would appreciate receiving any comments about the value and usefulness of this tool and learning of any problems you encounter when accessing or using the tool. Please contact Colin Favret (email: [colinfavret@aphidnet.org](mailto:colinfavret@aphidnet.org)) with any comments or questions about tool content, or with any accessibility, functionality, or other website issues you may encounter.

For more information about other CPHST identification resources and tools for plant protection and quarantine, contact ITP Tool Developer Amanda Redford (email [amanda.j.redford@aphis.usda.gov](mailto:amanda.j.redford@aphis.usda.gov)). To find other identification aids for aphids, visit ID Source - Aphids. To view other digital identification tools developed by the CPHST ITP team, visit ID Source - ITP.