



## Ayudas taxonómicas en internet

La siguiente información ha sido compilada por Allan Smith-Pardo, USDA APHIS, San Francisco, California, USA, Terrence Walters, USDA APHIS PPQ S&T FCL ITP Coordinator and Amanda Redford, USDA APHIS PPQ S&T FCL ITP Tool Developer.

### **Hispinines of the World update**

Collaborator: National Museum of Natural History

Author: Charles H. Staines



USDA Animal and Plant Health Inspection Service's Identification Technology Program (ITP) is pleased to announce an update to *Hispines of the World*. The identification tool, originally released in 2012, was developed through collaboration between USDA CPHST Identification Technology Program (ITP) and the National Museum of Natural History.

Hispines (Chrysomelidae, Coleoptera) are a group of approximately 3,000 species worldwide. Currently these species are placed in 195 genera. A number of hispines are considered to be major pests of economic importance. Some of the most serious are the ones that attack palms (*Alurnus humeralis*, *Brontispa longissima*) and rice (*Dicladispa armigera*, *Leptispa pygmaea*). Other species within this group have been successfully used as biological control agents against invasive weeds. *Hispines of the World* provides an easy-to-use, interactive, matrix-based key to all currently recognized genera of hispines (195). The tool has been updated to include fact sheets for each genus, as well as a detailed illustrated description of the group of beetles commonly known as hispines.

*Hispines of the World* can be accessed at: <http://idtools.org/id/beetles/hispines>

You may also be interested in viewing another ITP tool for chrysomelid pests: Diabrotica ID.

Visit [idtools.org](http://idtools.org) to view other ITP tools

Visit ITP Android Lucid Mobile Apps and ITP iOS Lucid Mobile Apps to view ITP's recently released Lucid Mobile apps.

### **Scale Insects: Identification Tool for Species of Quarantine Significance**

ITP Cooperator: California Department of Food and Agriculture

ITP Collaborators: USDA ARS Systematic Entomology Laboratory, USDA PPQ National Identification Services, and PXL PWR Multimedia Studio

ITP Funding Support: Section 10201 of the 2008 Farm Bill

ITP Release Date for Edition 2: May 6, 2014

Authors: Douglass Miller, Alessandra Rung, Grishma Parikh, George A. Venable, Amanda J. Redford, Gregory A. Evans, and Raymond J. Gill



Images from **Scale Insects** (l to r): cottony cushion scale, wax scale, and mango shield scale. USDA Animal and Plant Health Inspection Service's Identification Technology Program (ITP) and California Department of Food and Agriculture are pleased to announce the release of edition 2 of *Scale Insects: Identification Tool for Species of Quarantine Significance*. Originally released in 2007, the second edition includes newly intercepted species, a single filterable image gallery, searchable fact sheets, and a completely revamped interface that aims to make the identification process more user-friendly. Target users

for this tool include USDA APHIS pest survey specialists, identifiers at ports of entry, state and county identifiers, students, and scientists.

Scale insects are phytophagous, feeding by sucking plant juices through a set of highly modified mouthparts. They are widely distributed throughout the world with the exception of the cold extremes of the Arctic and Antarctic. Scales cause billions of dollars in damage to U.S. crops and in control costs annually, and nearly all damaging scale pests are species that have been inadvertently introduced.

**Scale Insects** is designed to help the user identify almost any scale insect to family, and in some cases to species, without the need for expertise in the group. The tool emphasizes scale taxa important to the U.S. ports of entry. There are four separate Lucid keys to identify slide-mounted adult females. The first one provides a means to identify a scale to the taxonomic level of family. Then the user can choose the most appropriate key for species identification. There are three keys to species: 1) Mealybugs and Mealybug-like Scales (including Pseudococcidae, Putoidae, and Rhizoecidae), 2) Soft Scales (Coccidae), and 3) Other Scales.

Please feel free to forward this email and attachment to your colleagues.

*Scale Insects* can be accessed at: <http://idtools.org/id/scales/>

Visit <http://idtools.org/> to view other ITP tools

Visit ITP Android Lucid Mobile Apps and ITP iOS Lucid Mobile Apps to view ITP's recently released Lucid Mobile apps.

## Videos

El USDA tiene ahora disponibles una serie de videos en la taxonomía de algunos grupos de insectos plaga patrocinados por el FarmBill.

[https://firstdetector.org/static/Taxonomic\\_Training\\_Videos.html](https://firstdetector.org/static/Taxonomic_Training_Videos.html)



Adicionalmente un video que acompaña dichas presentaciones en la preparación de placas de insectos:

**<http://www.ars.usda.gov/Main/docs.htm?docid=24198>**



BOLETÍN DEL MUSEO ENTOMOLÓGICO  
**FRANCISCO LUÍS GALLEGO**

ISSN 2027-4378

Apartado Aéreo 3840  
Teléfono: 430 9830  
Medellín, Colombia  
<http://www.unalmed.edu.co/~mentomol/>