



Florida Department of Agriculture and Consumer Services  
CHARLES H. BRONSON, Commissioner  
The Capitol • Tallahassee, FL 32399-0800

Please Respond to:  
Division of Plant Industry  
PO Box 147100  
Gainesville FL 32614-7100  
352-372-3505

September 14, 2005

## **MEMORANDUM**

TO: Registered Florida Nurseries

FROM: Richard D. Gaskalla, Director, FDACS/Division of Plant Industry

SUBJECT: Citrus Greening / Huanglongbing

Due to the recent detection of citrus greening disease (*Candidatus Liberibacter asiaticus*) in Miami-Dade County, we would like to provide you with access to the latest information in regards to this disease and the current regulations. Enclosed is a Citrus Greening Pest Alert (September 2005). The Division of Plant Industry also maintains an internet website with details and information about Citrus Greening. The website address is: <http://www.doacs.state.fl.us/pi/enpp/ento/citrusgreening.html>

Citrus greening disease is considered to be one of the most serious citrus diseases in the world. The bacteria are transmitted primarily by insect vectors (citrus psyllid). The citrus psyllid was first detected in Florida in 1998 and has since been detected throughout the state.

At the present time and due to the direct exposure of citrus greening disease in Miami-Dade County, all ornamental citrus psyllid host plant material in addition to all citrus is quarantined and prohibited from movement out of Miami-Dade County. Please be advised that a compliance agreement is being developed in conjunction with the United States Department of Agriculture that will include recommended controls and treatments for the citrus psyllid. These treatments will allow for citrus psyllid host plant material, excluding all citrus and citrus greening host plants, from Miami-Dade County to be shipped within the state of Florida and to non-citrus producing states. The certification process for host plants of the citrus greening disease is more complex and will take more time to develop certification procedures.

For all other counties, the interstate shipping (shipments outside the state of Florida) of all host plants of the citrus psyllid (including citrus) is permitted, except to citrus producing states (Arizona, California, Louisiana, Texas, and Puerto Rico). If citrus greening disease is detected in additional counties, the regulations established for Miami-Dade County will be applied.



Citrus Greening Disease Memorandum  
September 14, 2005  
Page 2

A complete host list of the citrus greening and the citrus psyllid is enclosed.

Please be advised that current Citrus Canker quarantine areas remain in effect; these quarantines prohibit the movement of citrus out of the quarantine area. Should you have any questions, please contact your local district inspector or refer to our website.

RDG/cb

xc: Bureau of Plant and Apiary Inspection Inspectors and Supervisors  
Ben Bolusky, Executive Vice President, FNGLA  
Dr. Joan Dusky, UF/IFAS County Cooperative Extension  
Mike Shannon, State Plant Health Director, USDA/APHIS/PPQ

Enclosures: Citrus Psyllid & Citrus Greening Host List (Sept 05)

# HOST PLANT LIST

## **Diaphorina citri (Citrus Psyllid) host plants:** (Adapted from Halbert and Manjunath, 2004)

*Aegle marmelos* (L.)  
*Aeglopsis chevalieri* Swingle  
*Afraegle gabonensis* Engl.  
*Afraegle paniculata* (Schaum.) Engl.  
*Artocarpus heterophyllus* Lamarck  
*Atalantia missionis* Oliver  
*Atalantia monophylla* (L.) Corr.  
*Atalantia* sp.  
*Balsamocitrus dawei* Stapf  
*Citropsis gilletiana* Swingle & M. Kellerman  
*Citropsis schweinfurthii* (Engl.) Swingle & Kellerm.  
*Citrus aurantifolia* (Christm.) Swingle  
*Citrus aurantium* L.  
*Citrus deliciosa* Tenore  
*Citrus grandis* (L.) Osbeck (*C. maxima*)  
*Citrus hystrix* DC.  
*Citrus jambhiri* Lushington  
*Citrus limon* (L.) Burm.  
*Citrus madurensis* Loar.  
*Citrus maxima* (Burm.) Merr.  
*Citrus medica* L.  
*Citrus meyeri* Tan  
*Citrus x nobilis* Lour.  
*Citrus obovoidea* Hort. ex Tanaka cv 'Kinkoji'  
*Citrus x paradisi* Macfad.  
*Citrus reticulata* Blanco  
*Citrus sinensis* (L.) Osbeck Aubert  
*Citrus* spp  
*Clausena anisum-olens* Merrill  
*Clausena excavata* Burm  
*Clausena indica* Oliver  
*Clausena lansium* (Lour.) Skeels  
*Eremocitrus glauca* (Lindley) Swingle  
*Eremocitrus* hybrid  
*Fortunella crassifolia* Swingle  
*Fortunella margarita* (Lour.) Swingle  
*Fortunella polyandra* (Ridley) Tanaka  
*Fortunella* spp.,  
*Limonia acidissima* L.  
*Merrillia caloxylon* (Ridley) Swingle  
*Microcitrus australasica* (F.J. Muell.) Swingle  
*Microcitrus australis* (Planch.) Swingle  
*Microcitrus papuana* H.F. Winters  
*Microcitrus* sp. 'Sidney'  
*Murraya exotica* L.  
*Murraya koenigii* (L.) Sprengel  
*Murraya paniculata* (L.) Jack  
*Naringi crenulata* (Royb.) Nicholson  
*Pamburus missionis* (Wight) Swingle  
*Poncirus trifoliata* (L.) Raf.  
*Severinia buxifolia* (Poiret) Ten.  
*Swinglea glutinosa* (Blanco) Merr.  
*Toddalia asiatica* (L.) Lam  
*Triphasia trifolia* (Burm. f.) P. Wilson  
*Vepris lanceolata* G. Don  
*Zanthoxylum fagara* (L.) Sarg..

### **Apparent non-hosts:**

*Casimiroa edulis* Llave & Lex.  
*Zanthoxylum clava-herculis* L

## **Candidatus Liberibacter (Citrus Greening) host plants:** (Adapted from Halbert and Manjunath, 2004)

*Aeglopsis chevalieri* Swingle  
*Atalantia missionis* Oliver  
*Balsamocitrus dawei* Stapf.  
*Calodendrum capensis* Thunb.  
*Catharanthus roseus* (L.) G. Don  
X *Citroncirus webberi* J. Ingram & H. E. Moore  
*Citrus amblycarpa* Ochse  
*Citrus aurantifolia* (Christm.) Swingle  
*Citrus aurantium* L.  
*Citrus depressa* Hayata  
*Citrus grandis* (L.) Osbeck  
*Citrus hassaku* Hort. ex Tanaka  
*Citrus hystrix* DC.  
*Citrus ichangensis* Swingle  
*Citrus jambhiri* Lushington  
*Citrus junos* Sieb. ex Tanaka  
*Citrus kabuchi* Hort. ex Tanaka  
*Citrus limon* (L.) Burm.  
*Citrus · limonia* Osbeck  
*Citrus maxima* (Burm.) Merr.  
*Citrus x nobilis* Lour. 'Ortanique'  
*Citrus x nobilis* Lour.  
*Citrus oto* Hort. ex Tanaka  
*Citrus x paradisi* Macfad.  
*Citrus reticulata* Blanco  
*Citrus sinensis* (L.) Osbeck  
*Citrus sunki* Hort. ex Tanaka  
*Citrus unshiu* (Mack.) Marc  
*Clausena indica* Oliver  
*Clausena lansium* (Lour.) Skeels  
*Cuscuta australis* R. Br. (Convolvulaceae, Cuscutaceae)  
*Fortunella* spp.  
*Limonia acidissima* L.  
*Microcitrus australasica* (F. J. Muell.) Swingle  
*Murraya koenigii* (L.)  
*Poncirus trifoliata* (L.) Raf.  
*Severinia buxifolia* (Poiret) Ten.  
*Swinglea glutinosa* (Blanco) Merr.  
*Toddalia lanceolata* Lam  
*Triphasia trifolia* (Burm. f.) P. Wilson

### **Possible non-hosts:**

*Citrus indica* Tanaka  
*Citrus limetta* Risso  
*Citrus macroptera* Montrons

For a more complete discussion of the circumstances for placement on the psyllid and greening pathogen host lists, consult Halbert, S. E. & K. L. Manjunath. 2004. FL Entomologist 87:330-353.