

USDA Huanglongbing Multi Agency Coordination (MAC) Group
 Funded Projects List for the Control and Mitigation of Huanglongbing FY 2015
 Projects Funded through the Stakeholder Suggestion Process*

Project Title	Project Description	Funded Amount	Cooperator	State	Goal Area
Development of a root sampling protocol for early detection of <i>Huanglongbing</i> (HLB or citrus greening)	This project will develop a root sampling strategy that is designed to detect pre-symptomatic infection	\$437,280	Texas A&M Kingsville	Texas	Pre-symptomatic detection of HLB
Canine Detection of Citrus for HLB	Detector dogs have proven to be highly adept at detecting citrus canker and early results suggest they will be an effective early detection tool for HLB.	\$627,768	CCK9 Training	Multiple States	Pre-symptomatic detection of HLB
Canine Detection of Citrus for HLB	Detector dogs have proven to be highly adept at detecting citrus canker and early results suggest they will be an effective early detection tool for HLB.	\$179,177	North Carolina State University	Multiple States	Pre-symptomatic detection of HLB
Standardization of antibody-based early HLB detection methods for near term applications	This project will compare several promising early detection tests that utilize tools useful in detecting human diseases in order to provide an early detection tool for growers.	\$428,154	University of California, Riverside	California, Texas	Pre-symptomatic detection of HLB
Treatment of Bicarbonates in Irrigation Water and Soil in Florida Citrus Groves Affected by HLB.	This project aims to improve root health by lowering the pH of the irrigation water and soil so that nutrients are available for an overall healthier tree in areas where bicarbonate levels are high. In so doing trees are better able to be productive even if HLB infected.	\$172,916	University of Florida	Florida	Sustainability
Integrated Management of HLB for Sustainable Citrus Production in Florida Using an Integrated Management Approach.	This project will combine a number of promising management strategies and evaluate using them as an integrated management approach for sustaining production of trees in	\$556,304	University of Florida	Florida	Sustainability

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	three different disease categories: uninfected and newly planted, mildly infected and still productive, and heavily infected with declining production				
High intensity management of a small, newly planted citrus grove utilizing ACP control, clean plant material, scouting, inoculum removal, and the tenets of area wide management	This project will demonstrate high intensity management of a newly planted grove using ACP control, clean plant material, scouting and removal of inoculum in conjunction with several different horticultural practices to demonstrate the best combination. As a result of these projects, grower will be provided with detailed information about best management practices for varied grove ages and conditions. As a result of these projects, grower will be provided with detailed information about best management practices for varied grove ages and conditions.	\$615,208	University of Florida	Florida	Sustainability
Control citrus HLB for new plantings in Florida with integrated management	This project will combine a number of best management practices including nutritionals, chemotherapy, thermotherapy, and other practices. As a result of this projects, grower will be provided with detailed information about best management practices for varied grove ages and conditions.	\$987,000	University of Florida	Florida	Sustainability
A Compact, Mobile, and Improved Tree Steaming System for Thermal Therapy of Individual Medium-sized Citrus Trees.	This project will provide a scalable, compact and mobile system for treatment of HLB-infected trees and make the system accessible and available for use by growers and	\$302,794	University of Florida	Florida	Sustainability

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	researchers. Already growers have shown an interest in the prototype machine and this funding will provide an improved system which could be built easily by individual growers.				
Widespread field testing of new HLB tolerant rootstocks	This project will establish numerous statistically valid field trials, covering the major Florida production areas, with a large group of new USDA and University of Florida rootstocks that have exhibited HLB-tolerance in early field trials, thereby more rapidly	\$403,810	University of Florida and the USDA, Agriculture Research Service	Florida	Sustainability
Rapid propagation of HLB tolerant scions and rootstocks to US citrus		\$600,000	University of California-Riverside	California and Florida	Treatment
AG Harvesters Citrus Steam Machine	Thermotherapy has been shown to bring HLB infected trees back to productivity. This machine will deliver thermotherapy on a field scale, instead of on an individual tree level	\$963,887	AG Harvesters	Florida	Treatment
Release and Establishment in California of <i>Diaphorencyrtus aligarhensis</i> , a Parasitoid of Asian Citrus Psyllid Sourced in Punjab, Pakistan	A second parasitoid shows great promise to control ACP and attacks a different life stage than the current agent. This project will produce and release this second insect, <i>Diaphorencyrtus aligarhensis</i> , in California to further reduce ACP populations.	\$330,563	University of California-Riverside	California	Vector Management
Immediate Expansion of the Mass Production of	This project will develop improved field insectary cages of varying sizes	\$185,500	SKEETA, Inc.	Multiple States	Vector Management

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<i>Tamarixia radiata</i> (a Biological Control Agent of the Asian Citrus Psyllid) Using SKEETA Field Insectary Cages to Reduce Populations of the Asian Citrus Psyllid (Vector of the Citrus Greening Disease).	to expand mass production and introduction of <i>Tamarixia radiata</i> to help to reduce Asian citrus psyllid populations throughout residential areas and beyond				
Development and implementation of a novel attract and kill approach for the management of ACP in residential areas, active- and abandoned commercial citrus groves	A novel attractant will be tested on a broader scale to kill increased numbers of adult ACP and if successful will provide an important tool to the industry.	\$640,750	Texas A&M-Kingsville	Texas	Vector Management
Development and field-level testing of systems for dissemination of pathogen fungus to ACP on residential citrus	This project will use dispensers developed by ARS and place them in residential trees in Texas to kill adult ACP.	\$321,777	Texas A&M-Kingsville	Texas	Vector Management

Total: \$\$7,752,888

- Most of these projects are two year projects.