



# What if Citrus Greening is the Beginning of Future Pest & Disease Issues in US Agriculture?

March 11, 2015

# Citrus Greening – AKA Huanglongbing

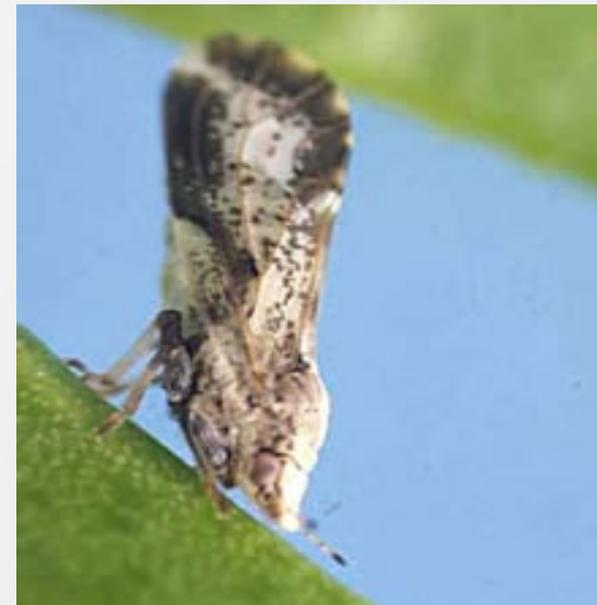
- Considered to be the most serious disease of citrus (NAS 2009)
  - Bacterial disease
  - Insect vectored
  - First found in FL in 2005
- Coming on the heels of the citrus canker eradication project
  - Grower aversion to removing trees



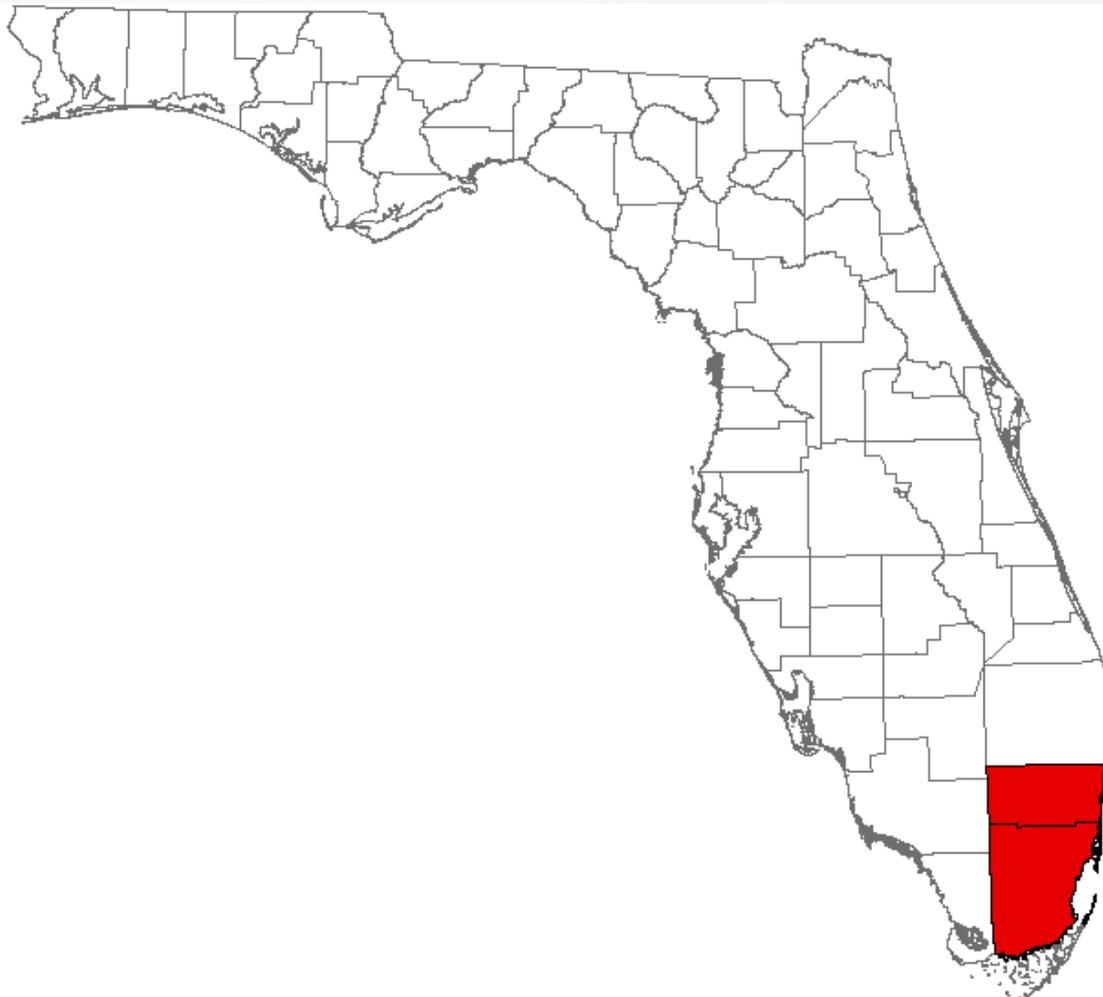
# Public Enemy #1

## Insect Vector -

***Diaphorina citri*** – Asian citrus psyllid; discovered in FL, June 1998, now widely distributed



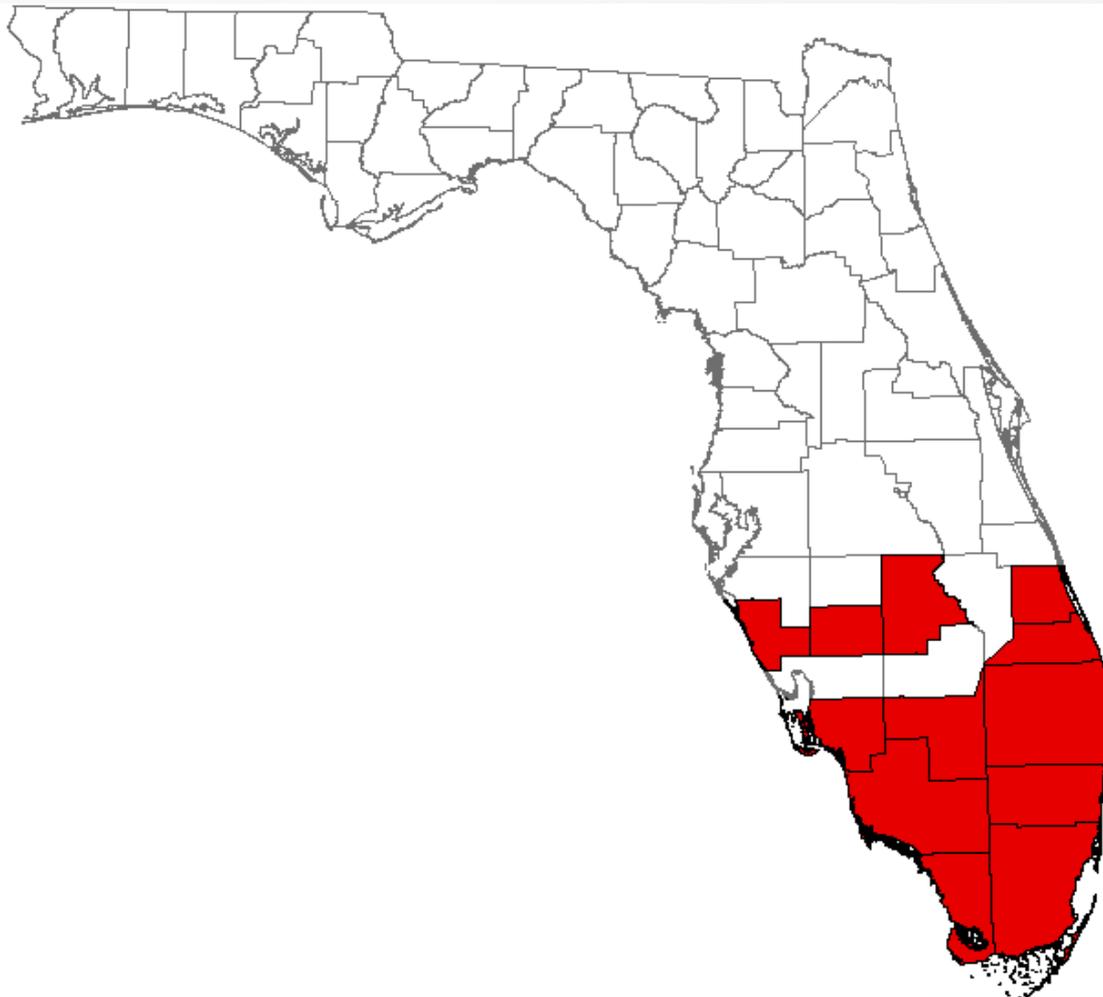
# HLB Increasing Throughout the State October, 2005



2 counties

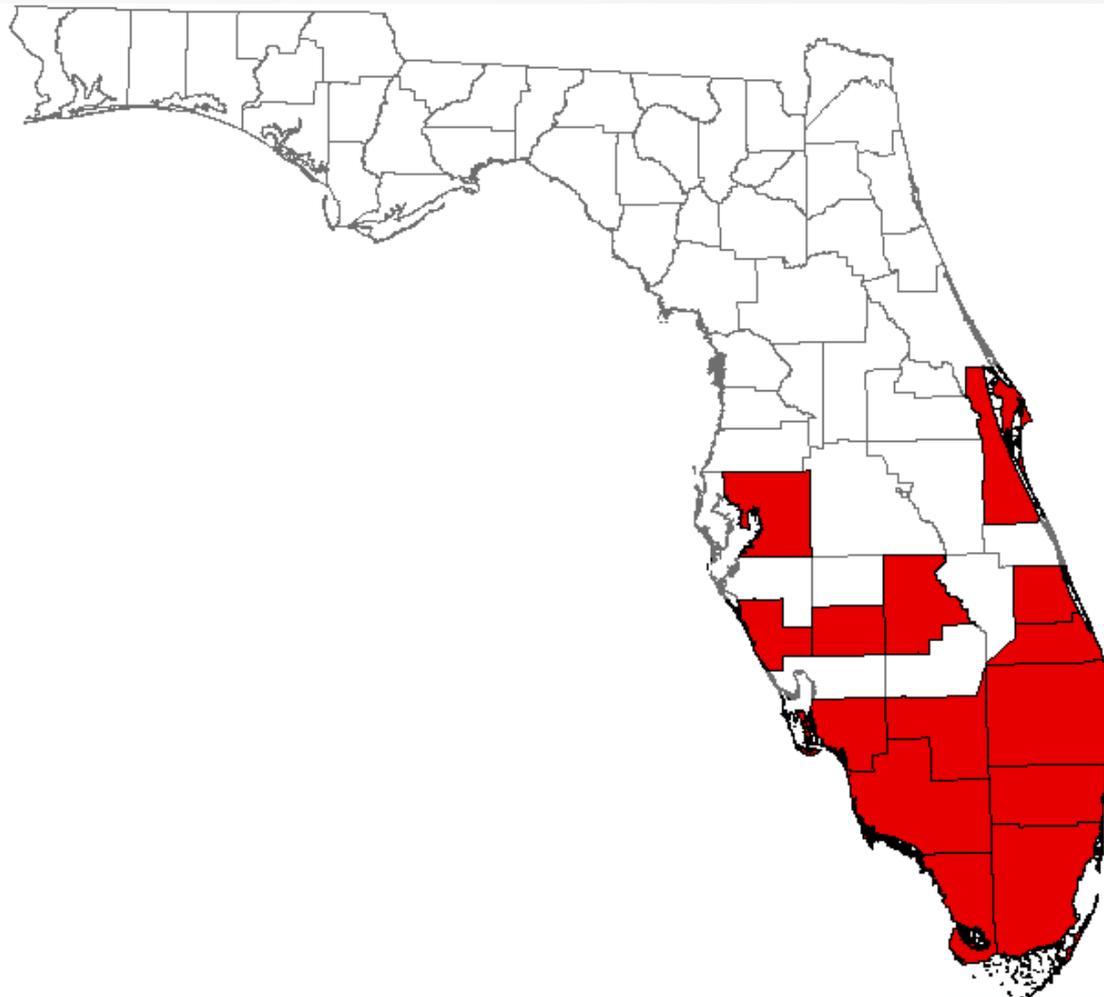
# HLB Increasing Throughout the State

## April, 2006



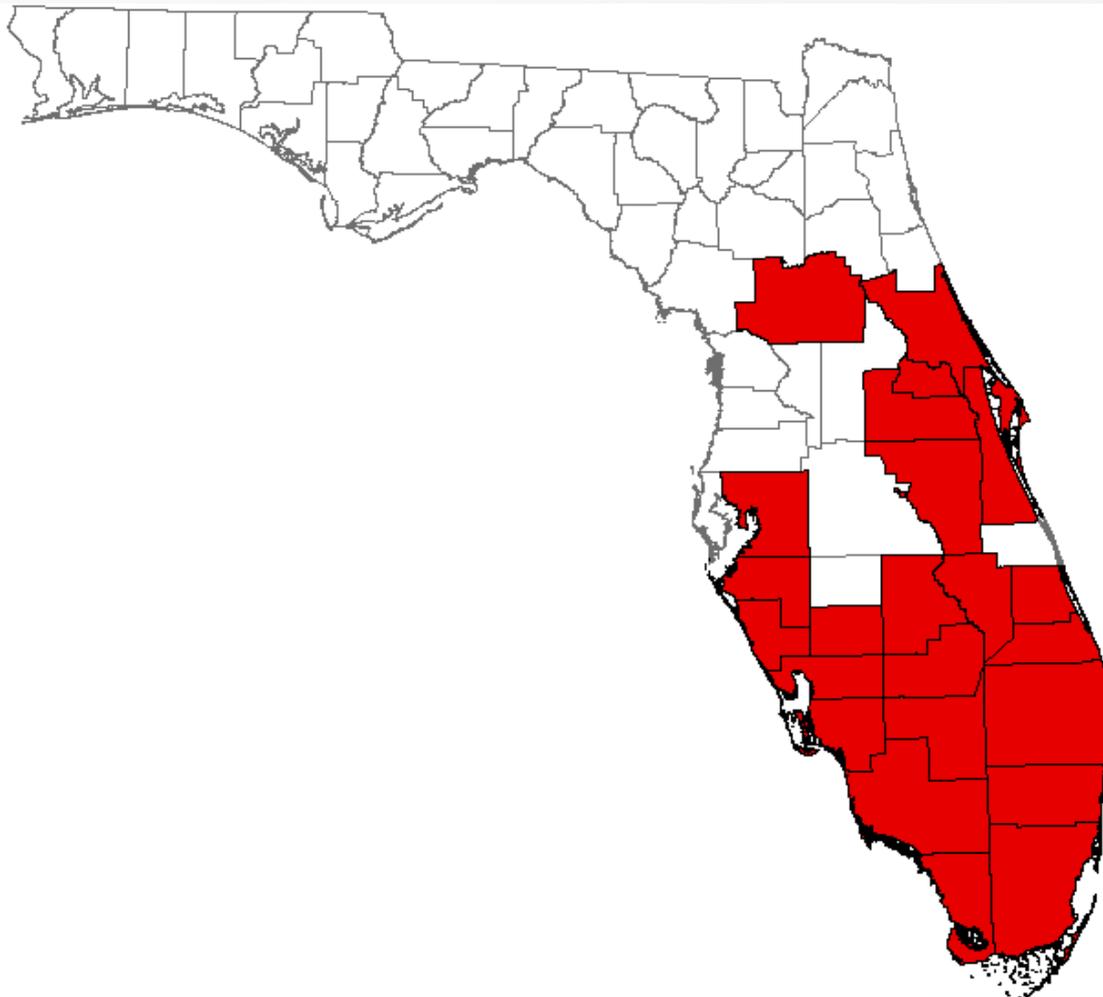
12 counties

# HLB Increasing Throughout the State January, 2007



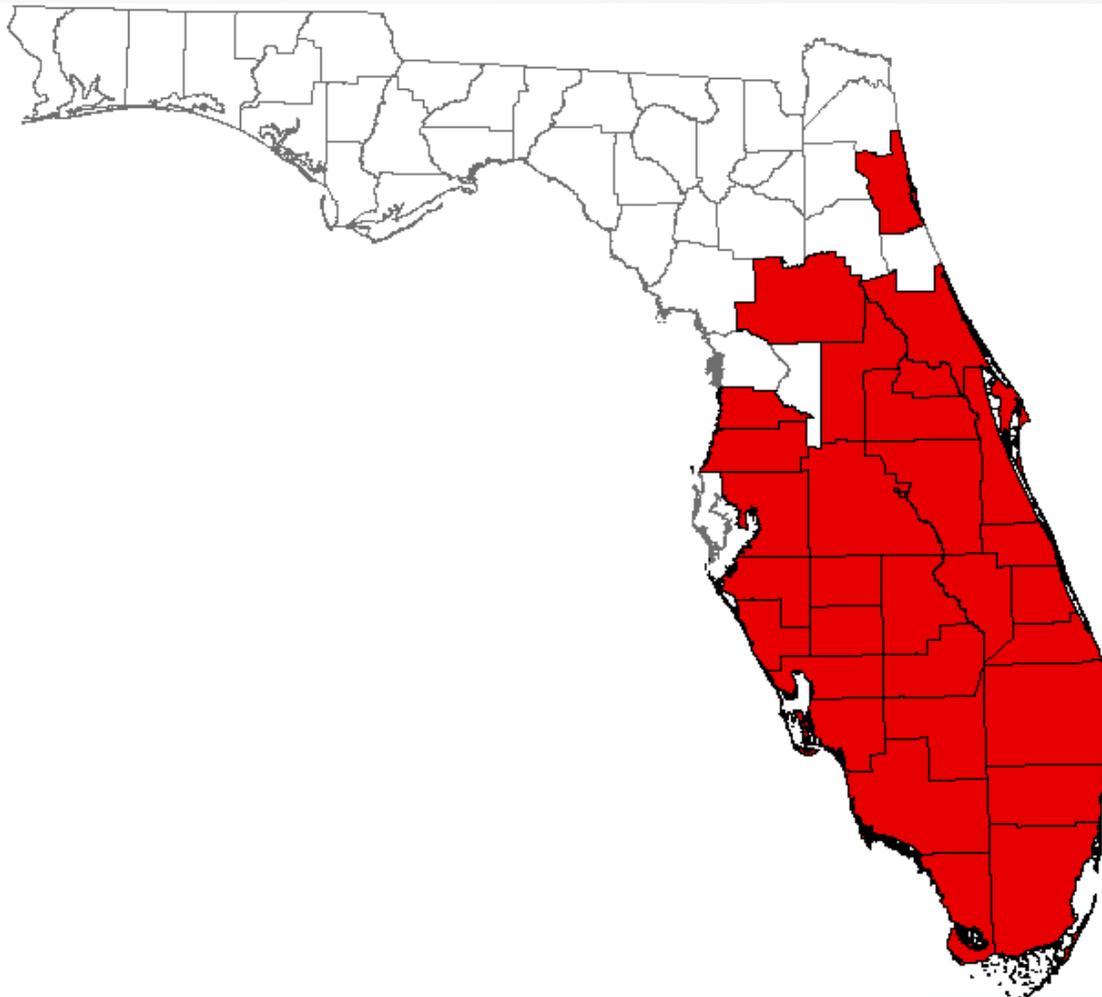
14 counties

# HLB Increasing Throughout the State June, 2007



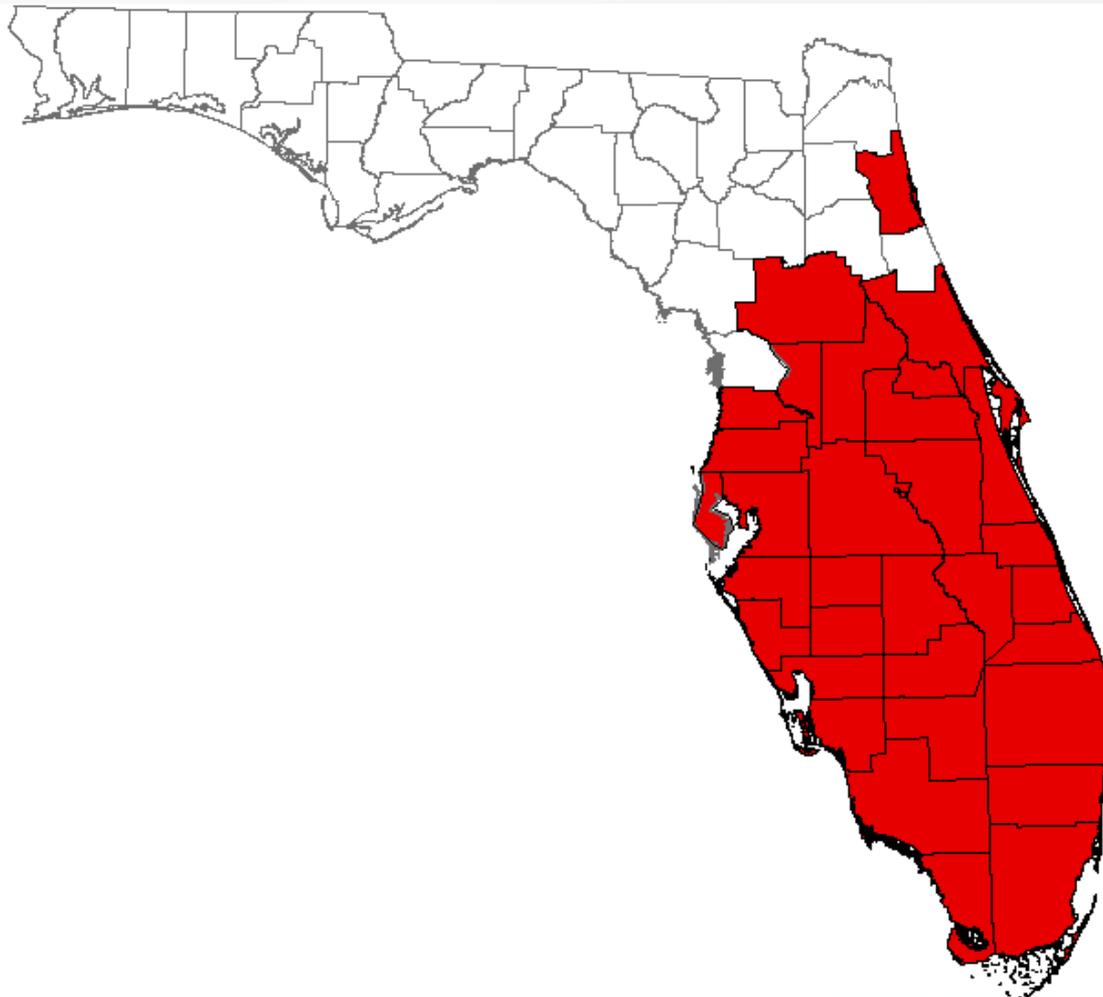
24 counties

# HLB Increasing Throughout the State February, 2008



30 counties

# HLB Increasing Throughout the State August, 2008

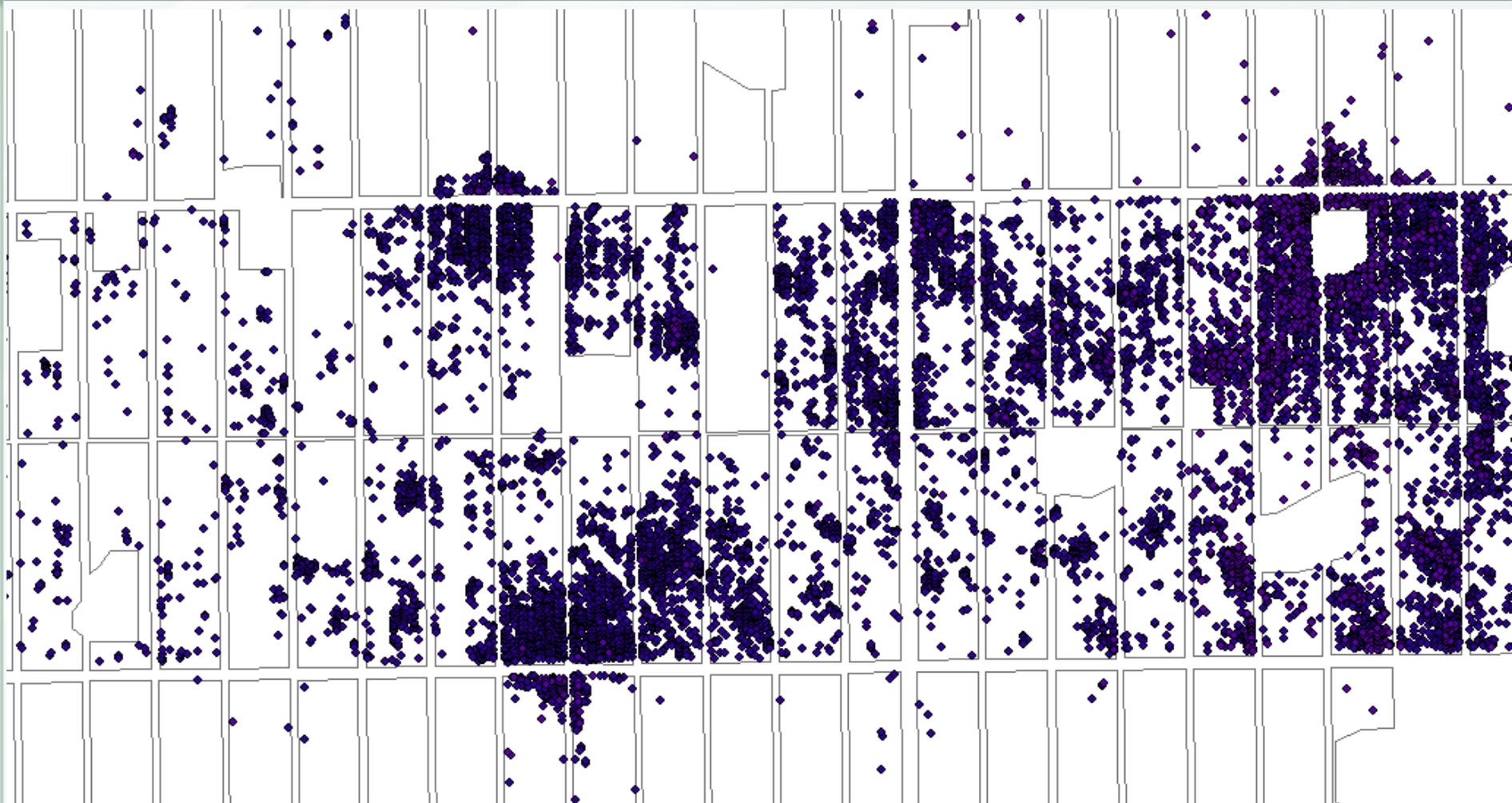


32 counties

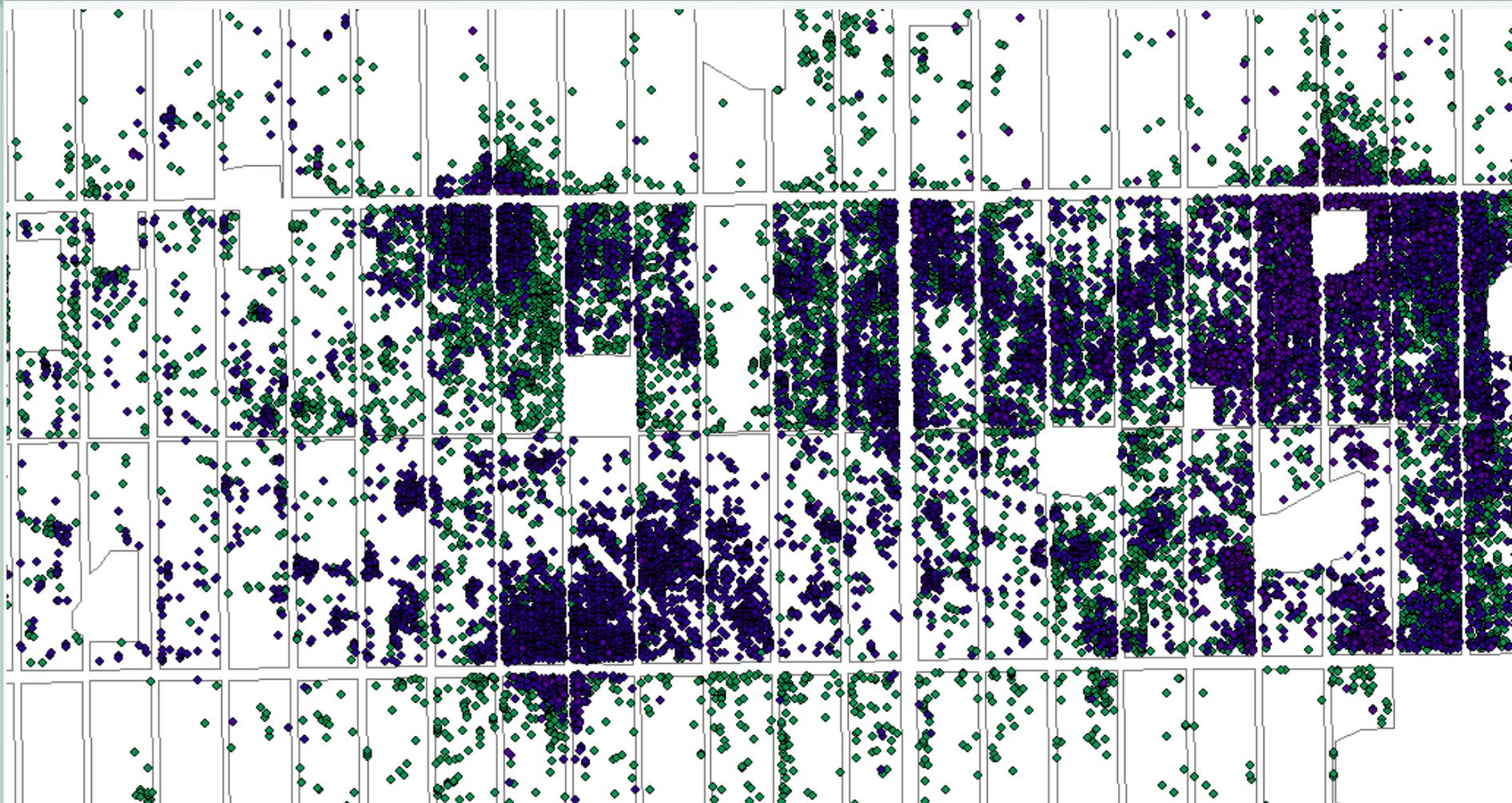
# How Fast Does it Spread? Oct05-Mar06



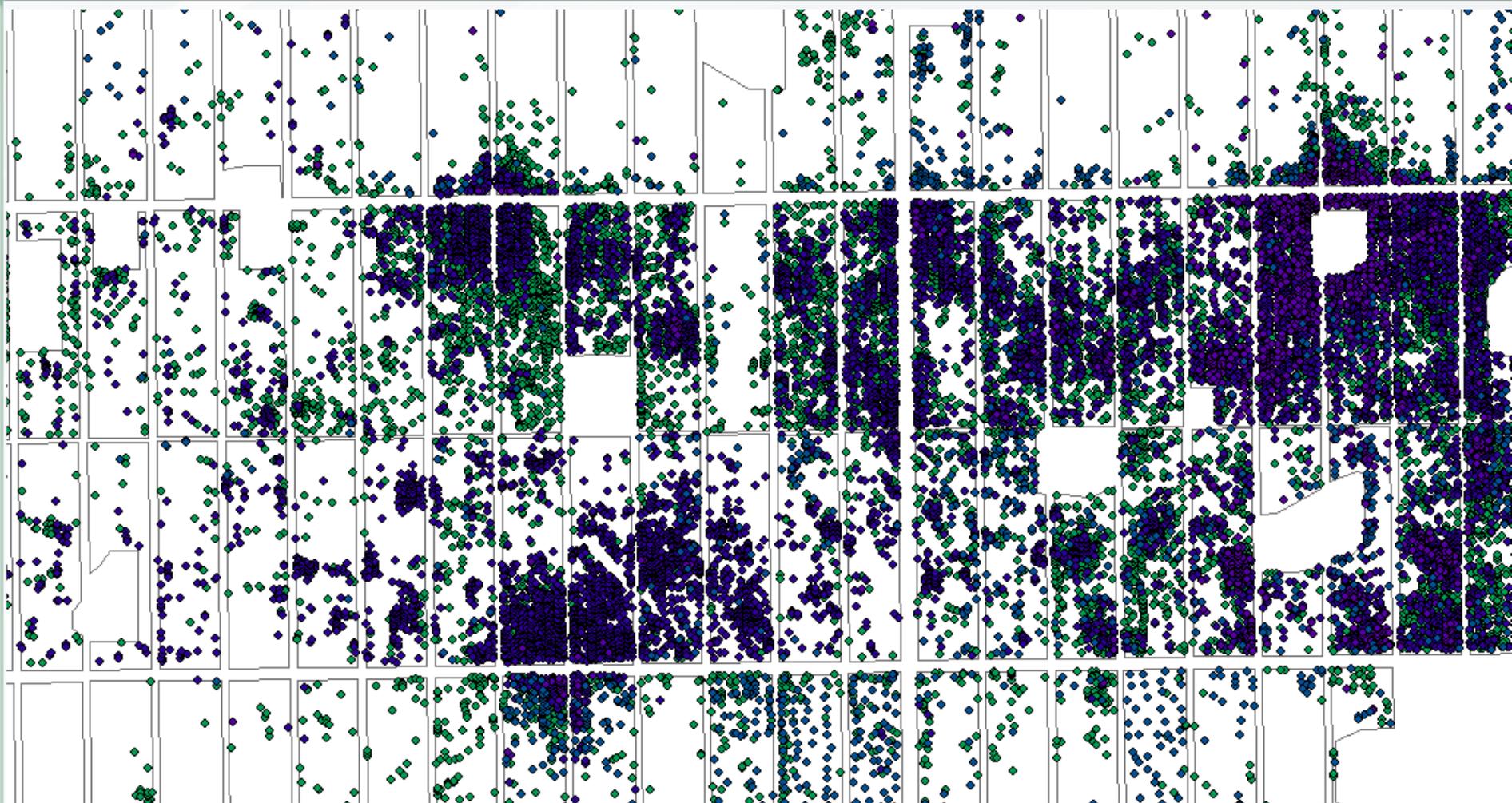
# How Fast Does it Spread? Apr06-Sep06



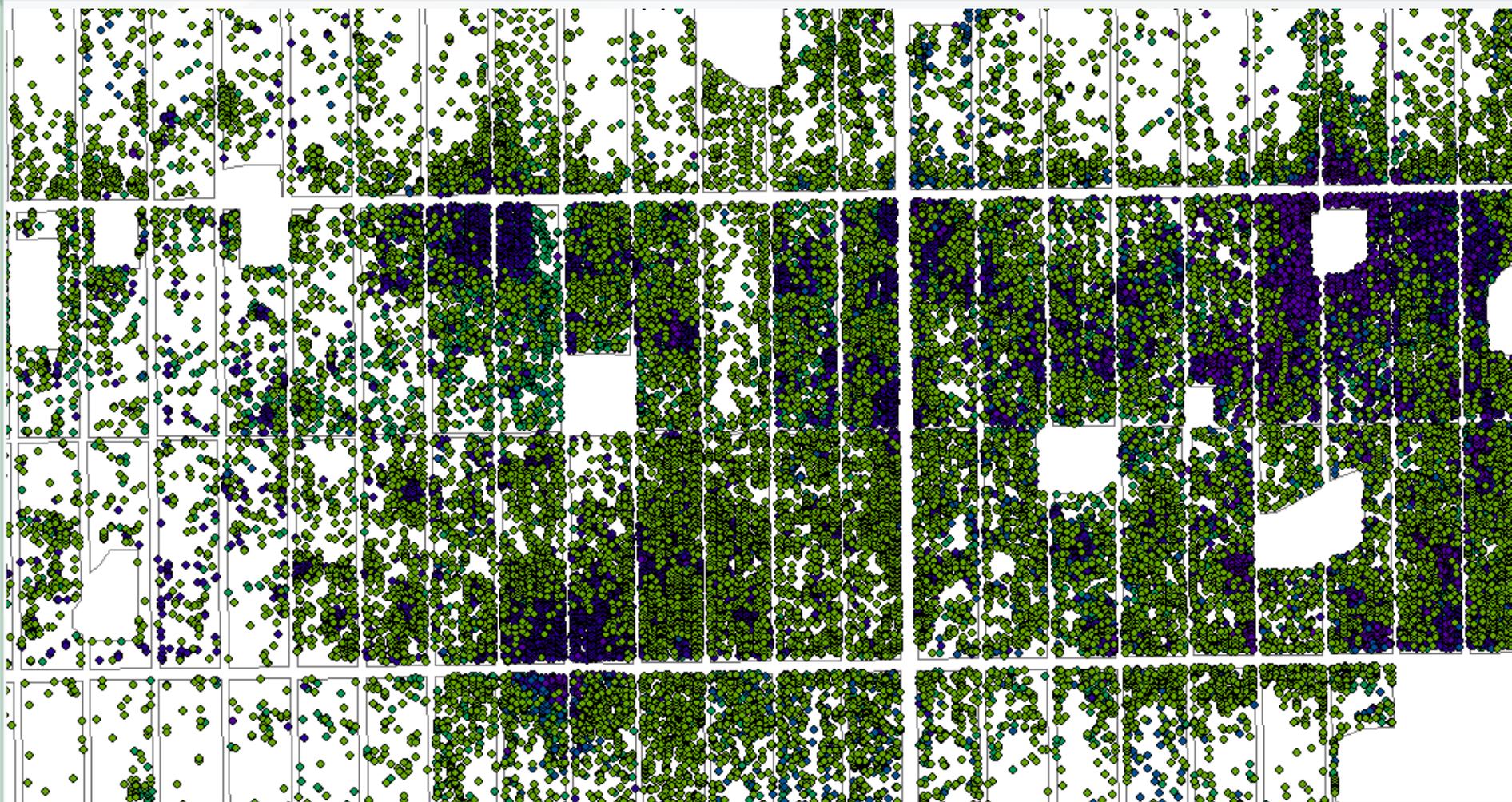
# How Fast Does it Spread? Oct06-Mar07



# How Fast Does it Spread? Apr07-Jul07



# How Fast Does it Spread? Aug07-Oct07



# The Florida Grower Journey

Pictures of same grove and trees exhibiting disease over time.



# Snapshots in time.....

April 19, 2007



December 16, 2008



April 23, 2009



September 23, 2010



October 21, 2011



10.21.2011

June 13, 2012



May 16, 2013



December 1, 2014



12.01.2014



12.01.2014







# 2/11/15 Conference Call - APHIS Pest Detection and Emergency Response

- Representatives of appropriate agencies.
- Provided overview of total process on identification of new pest issue.
- Question – How would APHIS grade response and performance to the ACP?
  - Broader and more full USDA response needed.
  - Lack of process/system to ensure appropriate coordination and action.
  - Going forward, more proactive and faster reaction to identified pest issues with strong future coordination and direction immediately.

# Summary

- HLB Citrus Greening Disease has been confirmed in the U. S. since 2005.
- Significant financial support from the USDA is now in place.
- What if the HLB disease is an indication of future Pest and Disease issues that could impact U.S. Agriculture?
- How can the USDA be more proactive in addressing a similar situation?

# Research Subcommittee Statement

- The Fruit and Vegetable Industry Advisory Committee would like to commend the various functions and personnel of APHIS on their efforts and support of the Florida (and U.S. Citrus) industry in the current challenges faced by the industry in dealing with the Huanglongbing (HLB) greening disease. However, in retrospect, the overall response to the control of the insect vector, the Asian Citrus Psyllid (ACP), could have identified sources of funding for research and development of control procedures in a more expeditious manner.

# Research Subcommittee Recommendations

- #1 – USDA should seek to develop a preemptive program for the identification of invasive pests and diseases that can have potential total destruction effects on current agricultural commodities.
- #2 – USDA should assign one (1) intra-agency function to be the coordinating entity to manage the total process for identified pest and disease issue(s), with supporting efforts from all other USDA functions as appropriate.