Survey to Estimate the Rate of Greening and Canker Infection in Florida Citrus Groves

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UF/IFAS – Citrus REC

Florida Citrus Show, Fort Pierce, Florida, January 27 and 28, 2010
Representatives From the Florida Dept. of Citrus, Florida Citrus Mutual, the Florida Citrus Production Research Advisory Council and UF/IFAS Met

- To discuss potential economic impacts of greening and canker
Studies Needed to Assess Potential Economic Impacts Of Greening and Canker

• Long-term projections of fruit production and prices
• Evaluation of reduced fruit supplies on citrus processing, packing, and input supply sectors
• Tipping Point?
Economic Studies Must be Based on Best Information Available

• Not just guestimated scenarios
It was Determined That A Survey of Florida Growers Was Required

- Obtain estimates of greening and canker infection rates
- Number of trees lost to greening and canker
- Degree growers are following management practices to slow the rate of greening spread
Survey was a Collaborative Effort Between Three Organizations

• UF/IFAS
• Division of Plant Industry (DPI)
• Florida Agricultural Statistics Service (FASS)
Roles of Each Organization

• UF/IFAS would provide overall supervision of project and availability to answer growers’ questions about survey
• DPI would provide data base of growers, availability to answer questions and input survey data into computer
• FASS would take data electronically from DPI, analyze and summarize it to provide required estimates
UF/IFAS, DPI and FASS Together
Developed Questions for Survey and Instructions for Completing Survey Form

• Covered Period From September 2007 through August 2008
Survey Form

- Estimates of greening and canker infection rates
- Number of trees lost to greening and canker
- Number of psyllid pesticide applications
- Number of greening scouting trips
Survey Form

• Oranges, grapefruit and specialty fruit
• For each of the five production regions
• By grower size category
  – Large – greater than 2,500 acres
  – Medium – 250-500 acres
  – Small - less than 250 acres
Survey Forms Mailed to 3,000+ Growers in December, 2008

- Completed surveys due to DPI office in Winter Haven by January 31, 2009
By January 31, Response Rate Inadequate to Meet Survey Objectives

• Random sample of growers called and urged to complete survey
Survey Deadline Was Extended

- First to March
- Then to April
Survey Response Rate Was Too Low

- Only represented 31% of total citrus acreage, mostly oranges
- Survey results could only be used statewide for oranges
Areas Where Information Could not Be Used

- Grapefruit and specialty fruit
- By production region
- By grower size category
RESULTS
# Canker & Greening Survey Results

## Survey Results for Oranges

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>State Total Acres</td>
<td>496,518</td>
</tr>
<tr>
<td>State Total Trees</td>
<td>65,775,300</td>
</tr>
<tr>
<td>Trees with Greening</td>
<td>1,025,024</td>
</tr>
<tr>
<td>Number Trees Removed</td>
<td>847,208</td>
</tr>
<tr>
<td>Percent Greening</td>
<td>1.6</td>
</tr>
<tr>
<td>HLB Scouting Trips</td>
<td>2</td>
</tr>
<tr>
<td>Psyllid Pesticide Applications</td>
<td>4</td>
</tr>
<tr>
<td>Percent Canker</td>
<td>15</td>
</tr>
</tbody>
</table>

Survey collaborators: University of Florida, IFAS; USDA’s National Agricultural Statistics Service, Florida Field Office; Florida Department of Agriculture and Consumer Services Division of Plant Industry
KNOWN DISTRIBUTION OF CITRUS CANKER/CITRUS GREENING (HLB) IN FLORIDA

Data being depicted on this website is for reference use only. This data is refreshed on a weekly basis. The Department is not enforcing the destruction of infected material, therefore there is no sure way to determine which infections have been removed and which have not. As such, the data depicted only represents known confirmed positive locations, and due to changing conditions may or may not represent real world scenarios. Before being posted all reasonable efforts have been made to contact owners to inform them of infections. For further explanations please download the available data definitions. If you have additional questions or problems regarding the use of this data, please contact the Help Line 1-800-292-5153.

Publish Date: Dec. 09, 2009
Prepared By: albrittm1

Florida Department of Agriculture & Consumer Services
Division of Plant Industry

Legend
- CHPF Office Locations
- Commercial Citrus Production Areas
- Citrus Canker
- Citrus Greening/LLB Sporadics

Gulf of Mexico

0 30 60 90 120 180 240 Miles