



# Summary of the NAS Report on Florida HLB Research

Stephanie Slinski · June 14, 2018 · Bonita Springs, FL



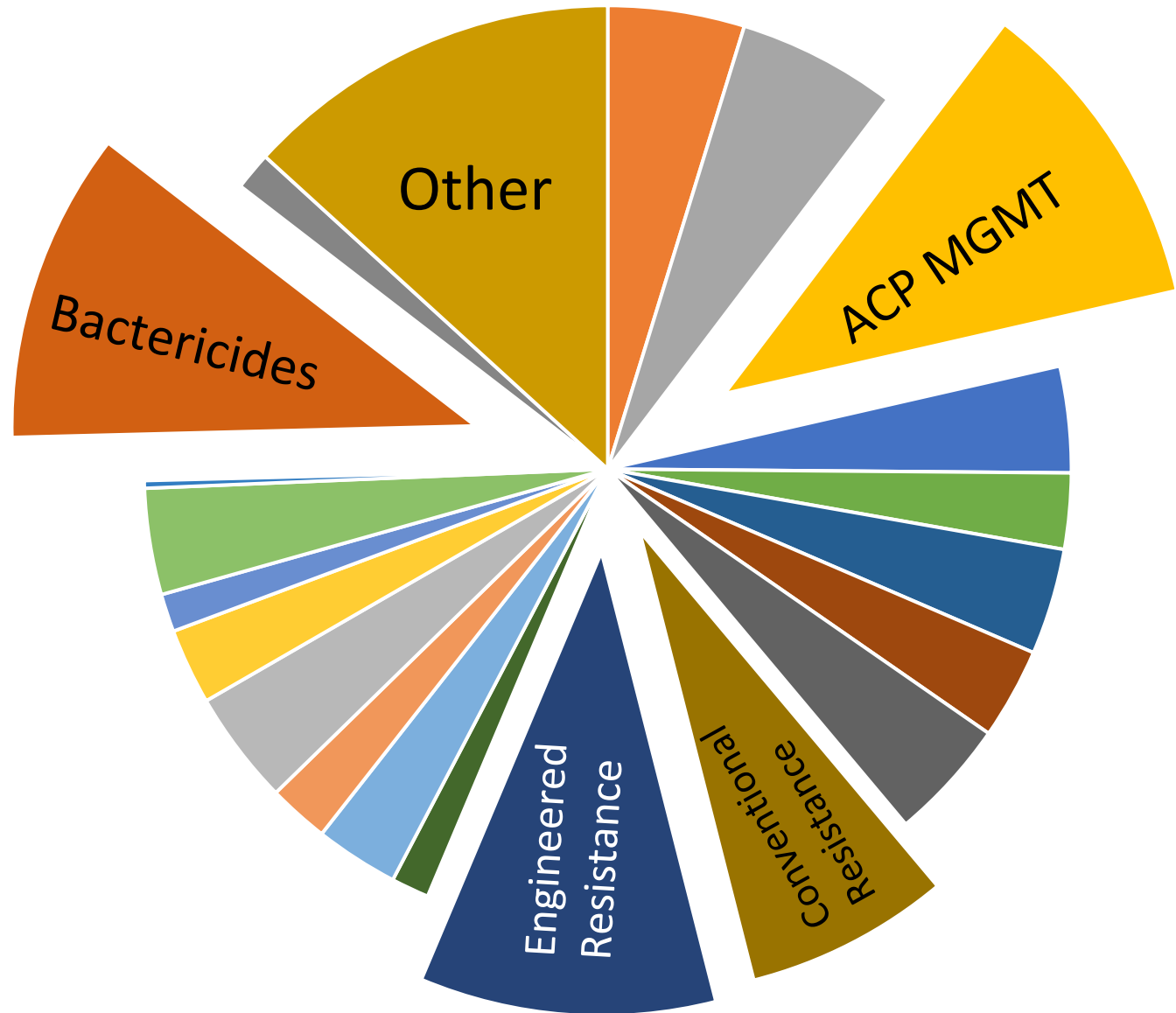
# National Academy of Sciences Report 2010

## Recommendations:

1. Organizational
2. Informational
3. Research
  - Near-term solutions
    - Commercial Product Delivery Committee
  - Intermediate & long-term solutions
    - Research Management Committee

# ~400 CRDF Funded Projects at Approximately \$120 Million

- ACP Biology
- ACP Biotech
- ACP Management
- ACP Monitoring/Behaviour
- Clas Biology
- Clas Biotechnology
- Clas Genetics
- HLB Detection
- HLB Resistance - Conventional
- HLB Resistance - Engineered
- Citrus Genetics
- Production Systems - General
- Microbial Amendments
- Citrus Nutrition
- PGRs
- SARs
- Response to Infection
- Therapies Against Clas
- Bactericides
- Thermotherapy
- Other Projects





# National Academy of Sciences Report 2018

- Focused on Florida and CRDF efforts
- Included other US states and programs addressing HLB
- Peer team of experts from applicable disciplines
- Reviewed publically available documents
- Topical researcher presentations
- Individual interviews with researchers
- Interviewed industry members on perceived benefit of past research
- Grower panels



# National Academy of Sciences Report 2018

- Draft report was peer reviewed
- Webinars presented report results
- Full document available online
  - <http://nap.edu/25026>

**A Review of the Citrus Greening Research  
and Development Efforts Supported by  
the Citrus Research and Development Foundation:  
Fighting a Ravaging Disease**

Committee on a Review of the Citrus Greening Research and  
Development Efforts Supported by the Citrus Research and  
Development Foundation: Fighting a Ravaging Disease

Board on Agriculture and Natural Resources

Division on Earth and Life Studies

A Consensus Study Report of  
*The National Academies of*  
SCIENCES • ENGINEERING • MEDICINE

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[www.nap.edu](http://www.nap.edu)



# National Academy of Sciences Report 2018

- Topic summaries provide a good summary of the published research
- Authors recognize that a large body of knowledge has been developed since HLB was discovered in Florida
  - Plant Host
  - Vector
  - Pathogen
  - Interactions between disease factors



# National Academy of Sciences Report 2018

- Recommendations for CRDF:
  - Improved reporting requirements for funded research
  - Improve public access to reports and publications
    - Website & communication improvements
    - Quarterly reports publically available
  - Improve communication between funding agencies to align research priorities
    - NIFA, CRB, MAC



# National Academy of Sciences Report 2018

- Recommendations for research community:
  - Implement community accepted standards for data collection
  - Facilitate sharing of standardized data
  - More timely publication of research





# National Academy of Sciences Report 2018

## Research funding recommendations:

- Continue to pursue near-term solutions that can sustain the industry
- Continue support for long-term research with improved coordination
  - Breeding for resistant rootstocks and scions
  - More rapidly deployable biotechnology
  - New ACP management strategies



# Addressing Near-Term Solutions

- CRDF Commercial Product Delivery Committee call for proposals (CPDC-18)
- Priorities for research
  1. Determine the best use of bactericides in citrus
  2. Improve Asian citrus psyllid management tools and strategies
  3. Plant Improvement
  4. Horticultural practices
  5. Other citrus disease management
    - PFD, Canker, Nematodes



# Addressing Near-Term Solutions

## Pre-proposal Review Criteria

1. Technical Relevance and Feasibility
2. Impact and likelihood of leading to a practical application
3. Timeframe for delivery within the next five years



# Addressing Long-Term Solutions

- CRDF Research Management Committee call for proposals (RMC-18)
- Priorities for research
  1. Effective bactericide use in Florida citrus groves
  2. Asian citrus psyllid
  3. Horticultural practices for disease management
  4. Plant Improvement
  5. Citrus black spot management



# Addressing Long-Term Solutions

## Pre-proposal Review Criteria

1. Technical Relevance and Feasibility
2. Impact and likelihood of leading to a practical application for pest management



# Research Funding Timeline

- Board approved the list of full proposal invitations
- Invitations for full proposal submission posted
- 37 proposals invited for CPDC-18 full proposal submission
- 27 proposals invited for RMC-18 full proposal submission
- Full proposals due July 25th
- Estimated start date for new projects is Oct.-Nov. 2018

**Thank you**



**CRDF is proud to provide support to the Florida  
citrus industry**