CRDF

2014 CITRUS EXPO

EDUCATIONAL SEMINAR

MULTI-AGENCY COORDINATION AND SHOVEL READY PROJECTS

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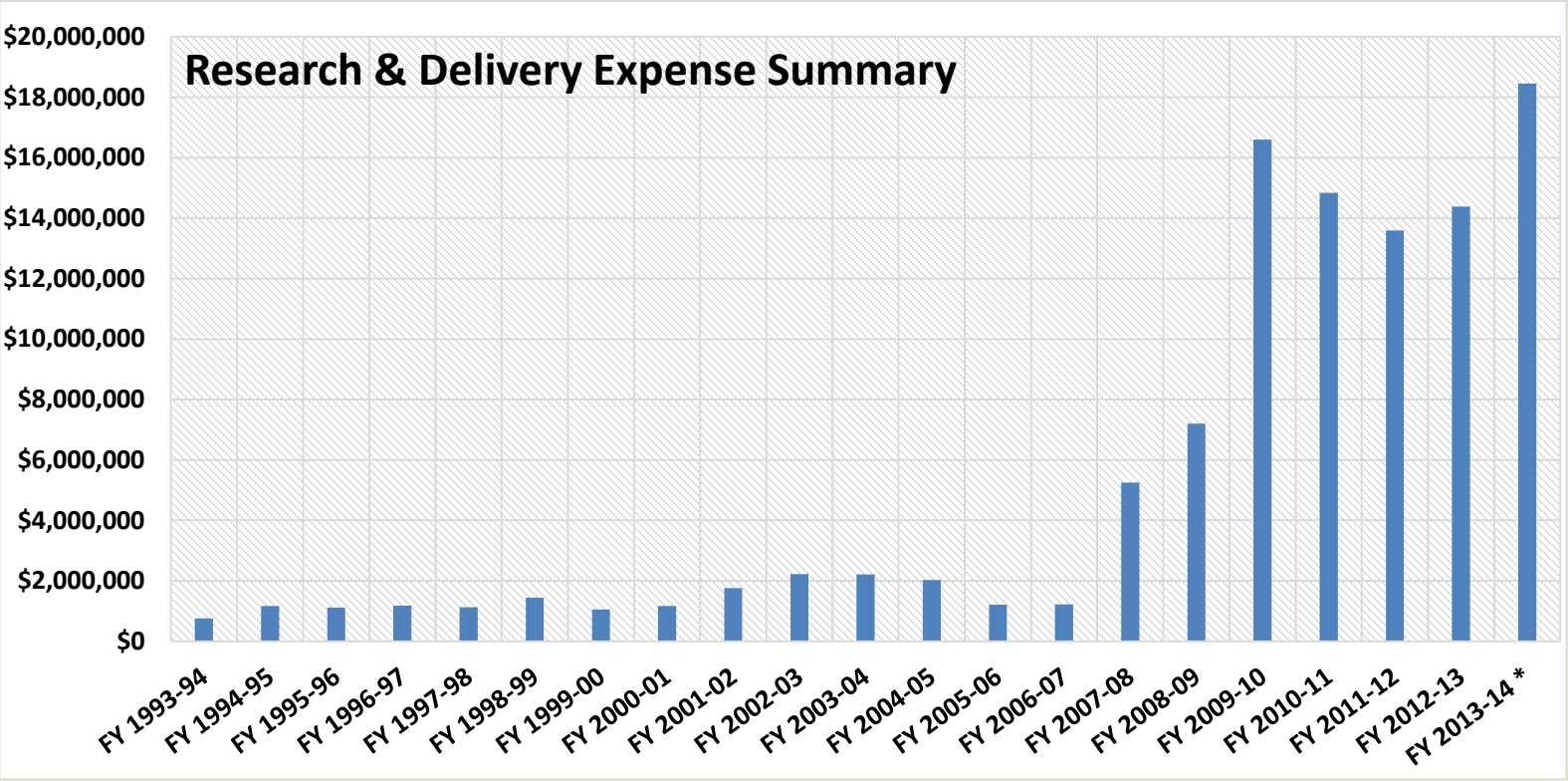
Acknowledgements

- State and Federal Elected Officials
- USDA Agencies and Leadership
- Florida Citrus Executives and Advocates
- Your Citrus Industry Colleagues
- U.S. Citrus Representatives – National Council

Leadership, Tenacity, Vision

Purpose for the Funding Allocation

- Provide Federal Partnership to Industry Investment



Purpose

- Accelerate Movement of HLB Solutions to the Field
- Disseminate tools to all citrus regions of the U.S.
- Address Specific Needs of citrus industries:
  - Florida – Therapies and response to wide-spread infection
  - Texas – Respond to ACP infestation and beginning HLB
  - Arizona and California – Prevent ACP spread and establishment
- Engage USDA Agencies in HLB response
- Invest $21 Million Appropriation to USDA over 2 years

USDA APHIS Management Plan

- Provide Management of funding
- Integrate with Citrus Health Response Program (CHRP) in place in citrus states with APHIS coordination
- Establish MAC Group
  - Multi-Agency Coordination – Led by Dr. Mary Palm
  - USDA Agencies
  - U.S. EPA
  - State Agencies
  - Citrus Stakeholder Representatives

Programs Organized by MAC

- Regular (weekly) meetings to develop plans
- Direct Funded Projects – Ideas developed and ready to implement
  - Prioritized and Work Plans Developed
  - Cooperative Agreements Executed
- Broad Agency Announcement – Seek Solvers
  - Responses reviewed, selected for support
- Stakeholder Project Suggestions
  - Open call for ideas for HLB solutions

Direct Funded Projects

- Anti-microbial field trials and product delivery
- Scale-up of thermal therapy for HLB-infected trees
- HLB Inoculum removal demonstration – CHMA
- Model Groves –
  - Integrating tools in new groves (Florida)
  - Demonstrating HLB management strategies (Texas)
- Implementing pre-symptom HLB diagnosis
- Expand biological control rearing and release programs – all citrus states

Call for Solvers – Thermal Therapy

- Technology has been demonstrated
- Use is feasible, but may not be practical (at present) on large scale
  - Small trees in low infection scenarios (inter-sets and new grove plantings)
  - Variable tree sizes in moderate-high infection blocks
- Scale-up to match infection rates
- Demonstrate utility of supplemental heat
- Encourage commercialization
- Evaluate results of scale-up tests – compare methods

Rating Criteria: Demonstrate how the project addresses some or all of the rating criteria:

1. **Timeliness of impact** – Has the technology, method or product been proven effective and shown to be field ready? Will this provide a positive benefit to the industry within 1-2 years?

2. **Scalability** – Is this technology ready to be scaled up or commercialized?

3. **Economic impact** – Cost/benefit of this solution or tool for growers and industry.

4. **End user involvement** – Will this work be carried out on commercially managed or grower land? How will growers be involved in evaluating the results?

5. **Adaptability across states and to residential/non-commercial citrus** – Is this broadly applicable? Will it be useful for organic or residential use? How might it need to be modified or tested for adaption across soils, climate, etc., in other states? Is this compatible with overall citrus management programs?

Stakeholder Project Suggestions

The *Huanglongbing* (HLB) Multi-Agency Coordination (MAC) framework was established by USDA Secretary Tom Vilsack to coordinate the federal, state, and industry response to the emergency situation arising from the effects of HLB on the citrus industry in the United States.

The HLB MAC Group is charged with quickly putting practical tools and solutions in the hands of producers that will allow them to remain economically productive until more permanent, long-term solutions can be employed.

Part of the HLB MAC Group strategy for meeting this charge is to solicit suggestions from interested parties for projects that can have immediate impact on the sustainability of citrus production in the U.S.

Guidance

Goal Areas: Suggestions must address one of the following goal areas:

1.Vector Management (e.g. chemical or semiochemical ready for field level testing, tools for trapping in the field, or substances that repel the Asian citrus pysllid (ACP))

2.Pre-symptomatic detection of HLB (e.g. scale up of early detection methods into tools thatcan be used in the field for management or in the lab for high throughput diagnostics)

3.Therapies to sustain diseased plant and insect hosts (e.g. a therapy that can help diseased trees maintain productivity, reduce *Candidatus* Liberibacter asiaticus in trees or ACP, or prevent feeding by ACP)

4.Sustainability of new plantings (e.g. a method, technology, or tool that will protect new treesfrom infection or impact of HLB; a system of best horticultural practices to allow production in presence of disease)

5.Inoculum management (e.g. strategies for removing/treating infected trees, especially those that are in the urban landscape or in abandoned or largely unmanaged groves)

Protocol for Submission

- Ideas from the community at large
- Solutions ready for testing/validation
- Open call for submission of ideas
  - Open period: June 30, 2014 – August 22, 2014
- http://www.cipm.info/hlbmac/spms/
- Amount of funding available: Up to $8 million is available to fund suggestions that best meet the criteria outlined above.
- Suggestions can be for a one or two year period with second year funding dependent on demonstrated progress in the project.

2014-15 CRDF Delivery Project Topics

Therapy for Existing Trees

- Antimicrobial Strategies
- Naturally Occurring Microbial Products
- Thermal Therapy to reduce *CLas* titer
- Plant Growth Regulator Interactions with HLB
- Strategic Inoculum Removal to Manage HLB in Florida
- Case Analysis of Success in Responding to HLB

New Plantings

- Asian Citrus Psyllid Management
- Tolerant Rootstock Plantings
- Psyllid Shield – Delivering RNAi with CTV Vector
- Integrating HLB Management Tools into Model New Groves
- Candidate HLB Tolerant Scion Evaluation in Field Trials

Federal Funding Programs - HLB

CRDF Program Goals

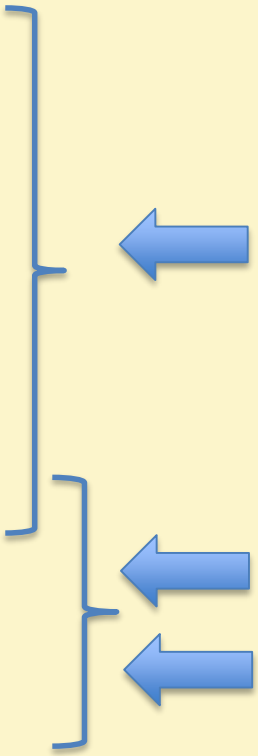
Understanding HLB

Long-Term Development

Medium-Term Development

Short-Term Solutions

Delivery of Solutions
to the grove



Federal Funding Programs

Farm Bill- USDA, NIFA
Specialty Crop Research Initiative (SCRI)
$25 million per year
5 years

Congressional Appropriation
Multi-Agency Coordination Group (MAC); USDA, APHIS
$21 million over 2 years

Citrus Health Response Program (CHRP)
USDA, APHIS and FDACS

Thank you!