Cooperative Agriculture Pest Survey (CAPS)

2012 Western Plant Board: Program Updates

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2013 CAPS National Survey Guidelines

- The CAPS Program is continually evolving
- NCC & constituencies input incorporated
- Some changes from 2012 are small clarifications, others may involve a cultural shift in the way we collect, manage, and report data.

2013 CAPS National Survey Guidelines

- retain focus, format, policy, and philosophy of the previous Guidelines
- centered on the ‘bundled survey’ concept
- emphasis for surveys based on commodities, environments, habitats, industries, businesses,
- and the continuum along pest introduction pathways

2013 National Survey Guidelines: Funding

- States should plan on 2012 funding for 2013
- Be prepared for reduction
  * up to 22% has been discussed
- Format: Infrastructure and Surveys
2013 National Survey Guidelines: Infrastructure

- Continued support of the State Survey Coordinator (SSC) position and critical infrastructure
- Tier 2 Infrastructure has been eliminated
- States cannot exceed 2012 Infrastructure funding
  - may reduce Infrastructure and apply the difference to survey(s).

2013 National Survey Guidelines: Survey

- Surveys guidelines now split between CAPS and Farm Bill
  - clear distinction between specialty crops and other commodity and taxonomic based surveys
- State Discretionary surveys have been eliminated
  - Pests of state concern should be bundled
  - Eliminates need for 75/25 funding formula

CAPS vs FB in 2013

- CAPS
  - Commodity-based Surveys: Corn, Cotton, Oak, Pine, Small Grains – wheat, oats, barley, rye, Soybean
  - Taxonomic group-based surveys: Exotic Wood Borer and Bark Beetle (EWB/BB) and Cyst Nematodes
- Farm Bill Survey- Specialty Crops
  - Stone Fruit – peaches, nectarines, cherries, plums, prunes, Grape, other Specialty Crops

2013 National Survey Guidelines: Infrastructure

- New reporting section with suggested metrics
  - updated Appendix P-1 of the 2013 Guidelines
  - better capture activities funded w/Infrastructure
  - better performance measures support budget requests
### Internal Driving Forces

- Accountability of Funds Provided
  - PPQ accountable for CA funds
- Program Performance Measures
  - requested reports
  - budget documents and scenarios

### Pest Detection / CAPS Performance Measures & Statistics

<table>
<thead>
<tr>
<th>Performance Measure</th>
<th>FY 2010 Results</th>
<th>FY 2011 Results</th>
<th>FY 2012 Results</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CAPS Participation</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total number of states/territories</td>
<td>53</td>
<td>54</td>
<td>53</td>
</tr>
<tr>
<td>All states plus these territories</td>
<td>PR, STX, Guma</td>
<td>PR, STX, Guma</td>
<td>PR, STX, Guma</td>
</tr>
<tr>
<td>Number of states/territories with Infrastructure</td>
<td>53</td>
<td>51</td>
<td>52</td>
</tr>
<tr>
<td>States w/o Infrastructure</td>
<td>-</td>
<td>AZ, CNMI</td>
<td>AZ</td>
</tr>
<tr>
<td>Number of states/territories with Surveys</td>
<td>51</td>
<td>51</td>
<td>51</td>
</tr>
<tr>
<td>States w/o Survey</td>
<td>IA, NM</td>
<td>MO, AZ, NM</td>
<td>AZ, NM</td>
</tr>
</tbody>
</table>

### New to the United States

<table>
<thead>
<tr>
<th>Performance Measure</th>
<th>FY 2010 Results</th>
<th>FY 2011 Results</th>
<th>FY 2012 Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>New to the United States</td>
<td>88.9%</td>
<td>83.3%</td>
<td>-</td>
</tr>
<tr>
<td>Percent of significant pest introductions that were detected before they had a chance to spread from the original point of colonization and cause severe economical and/or environmental damage</td>
<td>88.9%</td>
<td>83.3%</td>
<td>-</td>
</tr>
<tr>
<td>New or re-introduced into the United States</td>
<td>28</td>
<td>23</td>
<td>12</td>
</tr>
<tr>
<td>Percent listed as reportable/actionable</td>
<td>96.4% (27)</td>
<td>100%</td>
<td>11</td>
</tr>
<tr>
<td>Number on Priority Pest List</td>
<td>0</td>
<td>3</td>
<td>0</td>
</tr>
</tbody>
</table>

As of today, 128 pests have Approved Survey Methods. This includes all Priority Pests, as well as a few others because of the immediate need.
External Driving Forces

- Budget
  - Federal
  - State
- Fiscal Climate
  - Budget cuts
  - Reduced funding
  - Continuing resolutions

Options for Funding (a few of many)

Program Focus?

- Early detection of exotic species
  - Commodities
  - Natural environments
- Facilitate Trade
  - Exports
  - Internal state-to-state
- Both? How would that look?

Options for Funding (a few of many)

Risk-based

- Pathways
- State Risk Model (Farm Bill project)
- Pest Risk – NAPPFAST
- Other risk data and models
  - New pest detections
  - Database records

FY12 CAPS Funding

- State or Territory
- FY12 Survey
- FY12 Detection
Options for Funding (a few of many)

Performance-based
- Best Return on Investment (ROI)
  - Value of a commodity in exports
  - Sales receipts
- Negative data into positive movement of goods
- Does the investment in negative data result in a return many times greater than the cost of the negative data? - Maximum ROI
- Linkage between Risk and Performance?

Options for Funding (a few of many)

Economic-based
- The cost of a response in the absence of survey
  vs
- The cost of a response with an early detection survey
- State-by-State
- Based on a commodity or individual pest species?

Options for Funding (a few of many)

??-based
- Other data that may be appropriate
  - Total PPQ funding
  - Deobligation trends
  - What else?
  - What is missing?
- How is all of this tied together?

Challenge
- What is the optimum allocation of limited resources that will be economically
  - Efficient
  - Effective
  - Sustainable
  - Defensible
  in order to meet our core function and mission?
Cooperative Agriculture Pest Survey (CAPS)

- **Valid Negative Data**
  - Approved Survey Methodology
    - Standardized methodology across the U.S.

- **Data Validation Upon Data Entry**
  - Negative data must conform to the approved survey method for each pest
Cooperative Agriculture Pest Survey (CAPS)

- Pest Tracker (pest.ceris.purdue.edu)
  - Public face of the NAPIS database
  - County-level survey results
  - Pest news and information
  - State information
  - Federal and State contacts
  - Other resources, links, etc.

Sirex Woodwasp, S. noctilio – 3-yr Survey Data

Survey profile – not a distribution profile

Cooperative Agriculture Pest Survey (CAPS)

- CAPS program transitioning into IPHIS in coming years
  - working to improve data management
  - 2012 Pilot (CO, ID, ME)
  - a decision for data management in 2013 will be made around October 1, 2012.
Other Initiatives on the table

- J-3 Interface online
- Survey Costs: Price per trap
- Cost Funding Determination Models

Questions?