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Supporter Level

Nisso

SePRO
Initial objective, remains “Signature” objective
Mostly Guideline Magnitude of Residue studies
Targeted Product Performance
Crop Grouping Expansion
Harmonization of MRLs and international activities
NEW-Integrated Solutions
### Food Program Success

<table>
<thead>
<tr>
<th>Trifluralin/Rosemary</th>
<th>S-Metolachlor/Many</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mandipropamid/Many - Bentazon/Pea</td>
<td>Flonicamid/Sunflower group - Fluensulfone/root veggies</td>
</tr>
<tr>
<td>Clofentezine/Guava</td>
<td>Penthioapyrad/Caneberries Bushberries</td>
</tr>
<tr>
<td>Sulfoxaflor/119 uses</td>
<td>Propiconazole/30 uses</td>
</tr>
<tr>
<td>Pydiflumetofen/32 uses</td>
<td>Emamectin benzoate/122 uses</td>
</tr>
<tr>
<td>Nitrapyrin/128 uses</td>
<td>Buprofezin/158 uses</td>
</tr>
<tr>
<td>Abamectin/</td>
<td></td>
</tr>
</tbody>
</table>
Residue

- 73 studies
- 436 field trials
  - ARS 51
  - NE 38
  - NC 38
  - WR 183
  - SR 97
  - Canada 29

Performance

- 44 studies
- 95 field trials

Integrated Solutions

- 5 studies
- 16 sites
- one early success
Crop Grouping

- IR-4 submissions to EPA completed
- EPA fallen behind in processing submissions
- Log jam finally broken
  - Herb and Spice proposal
- Codex mostly complete
International

- Continue to work closely with Canada
- US/Canada cooperation is model
- Capacity building success
- Minor Use Foundation
Changes in Biopesticide World

• Many new effective products with registrations
• Products have fit into conventional agriculture systems
• Big companies are established in biopesticide market
• Consumer demand for green products for home and garden
• Biostimulants
Biopesticide research will be moved into existing Food and Environmental Horticulture Programs

• No significant changes in Environmental Horticulture Program

• For Food Program → “Integrated Solutions” initiative; coupling biopesticides with conventional products in research
  • Pest Problems Without Solutions, Resistance Management Projects & Residue Mitigation Priorities

• IR-4 will maintain Biopesticide Regulatory Support

• IR-4 will set aside some funds for research to assist organic farmers

• New funds to expand research?
• Predominantly crop safety testing and efficacy, including invasive pests allowing industry to expand registrations (Open Labels)

• Pollinator Protection
2018 Accomplishments-EH

- Success-5 registration decisions impacting 2574 uses
- Submissions-21 data summaries compiled and transmitted
- Research-628 trials
- SCRI Pollinator protection
  - Residue work
  - Alternative treatment options
  - Consumer choice
• Various steps to eliminate laboratory analytical analysis backlog & achieve timelines
• Integration of Product Performance research with modern chemical and bio-based pesticides → Integrated Solutions
• 2019 Week of Workshops
• IR-4 funding less today than in 2010; Expenses↑: Research ↓
• CLC stepped up their game; “19 in 19”
• At the end of the process; another year of flat funding → Operation 20 in 20
• Eliminated in President’s FY 2020 proposal. House of Representatives→ small increase, Senate →FY 2010 levels
Additional Challenges

• University Service Fees
  ▪ Cornell
  ▪ Rutgers → “The Move”

• Convert to SCA in FY 2021 → 10% IDC

• NIFA’s Strategic Realignment
“The Move”
Reality of “The Move”

- A relocation of this magnitude is disruptive
- IR-4 must remain operational during move
  - Challenge to keep current team
    - Retirements
    - Personal Situations/Decisions
  - Develop shadow organization
  - Long transition period to minimize disruption
- Robust specialty crop base in NC
- Strong institutional support
- Hub of the crop protection industry
Benefits

• **Growers**
  – Legal access to safe & effective pest management technology…….grow high quality crops

• **Food Processors & Food Retailers**
  – Consistent supply of raw materials

• **Economy**
  – *IR-4 contributes $9.4 Billion to annual US GDP/supports >95,200 jobs*

• **Public**
  – Plentiful supply of specialty crops that contribute to a healthy diet & plants that enhance the environment.
THANK YOU!

Diagram showing the IR-4 Project involving USDA ARS, USDA NIFA, Land Grant Univ., Crop Protection Industry, Commodity Producers, Food Processors, and EPA.