Using Pesticides Wisely

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National Bicentennial Farm

UNIVERSITY OF GEORGIA EXTENSION
UPW
using pesticides wisely
GEORGIA DEPARTMENT OF AGRICULTURE
Training – Data Gaps
Survey question: List primary points from the training that actually help you apply auxins on-target.
1. Understanding sensitivity of crops/plants surrounding treated fields -- i.e. better understanding of the auxin footprint.
2. Research showing how far particle drift can go using grower practices!
3. **Educational Cooperation** – Growers, Extension, Department of Ag, Industry, EPA, Agents, Consultants (*face to face training was/is critical*)
## 2017 Survey Results – North Carolina

Prefer face-to-face or online training?

<table>
<thead>
<tr>
<th>Category</th>
<th>Respondents</th>
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<td>Dealer</td>
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Trainers must have an in depth knowledge of both the positives and negatives of the technologies. **Unbiased delivery is critical.**
UGA’s 15 Factors Influencing Success

- Spray Tip
- Wind
- Size of Crop
- Spray Pressure
- Land Terrain
- Buffers
- Sprayer Speed
- Temp/Humidity
- Tank Cleanout
- Herbicide Footprint/Surrounding crops
- Drift Control Agent
- Volatility
- Proper Formulation
- Residue Tolerance
Data Gaps Identified by Trainers

1. Volatility
   A. Data you can trust from field
   B. Large acreage
   C. Soil moisture – soil texture – temp

2. New spray tips – progress?

3. Tank mixtures
   A. Especially insecticides/fungicides
   B. When a mix is not approved......
      share data on why it isn’t
How important are tank-mixtures or premixtures for:

- Resistance management: 86% Very Important, 14% Unimportant
- Minimizing expenses: 85% Very Important, 15% Unimportant
- Improving control: 87% Very Important, 13% Unimportant
Data Gaps Identified by Trainers

4. Time interval droplets remain in the air at lower wind speeds as influenced by the environment.

5. Movement of product in water after rain

“Do not make application of this product if rain is expected in the next 24 hours”

6. Nearly all trainings are based on the label.................
Please rate your overall satisfaction level with pesticide labeling based on:

- Finding directions: 75
- Ease of understanding: 73
- Uniformity across labels: 68

Response (%)
- UnSatisfied
- Satisfied
How effective are pesticide labels in curbing pest resistance?

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<th>Pesticide Type</th>
<th>Response (%)</th>
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<tr>
<td>Herbicides</td>
<td>55</td>
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<tr>
<td>Insecticides</td>
<td>66</td>
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<tr>
<td>Fungicides</td>
<td>47</td>
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% Effective or Very Effective
Labels Need A Make Over

SHORT-TERM GOAL
1. Smart labels……..easy/simple fast

MID-TERM GOAL
1. Regionalized label recommendations
   A. Better info – stewardship/resistance
   B. Help address risk cup issues

2. Move toward prescription recommendations
Stewarding Pesticides
Cooperation, Science And Education

Industry Partners

UGA extension

GDA PLANT INDUSTRY

The IR-4 Project

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY