Purdue Extension 2018
Dicamba Training Evaluation
Preliminary Report
June 14, 2018

Please note: This preliminary report of the evaluation of the dicamba training has been compiled by Julie Huetteman, Coordinator, Extension Strategic Initiatives, to share with the Pesticide Review Board meeting on June 14, 2018. This is an initial run of the data. Further analysis and refinement will be conducted this summer. Please share if you have any feedback or questions about the data.

Implementation and Delivery
The 2018 dicamba training was delivered by the Office of the Indiana State Chemist and Purdue Extension. Coordinated efforts from campus and county made the training available across the state.
- From January 1 to April 30, 2018, there were 193 PARP sessions that provided training on dicamba that were delivered in person across Indiana or via technology.
- These training sessions were attended by 5,669 private pesticide applicators who are currently certified in Indiana. There may also have been additional attendees, who were not certified private pesticide applicators (CCAs, Commercial, etc.), whose numbers were not tracked.

Evaluation Efforts
In many of the training sessions, program evaluations were conducted. A survey was distributed at the end of the training for attendees to complete. A total of 3,898 evaluations were collected for statewide compilation. Evaluations were from 78 counties, across the 10 areas and 5 districts of Indiana.

Adams	Greene	Marshall	Shelby
Allen	Hamilton	Miami	Spencer
Bartholomew	Hancock	Monroe	Starke
Benton	Harrison	Montgomery	Steuben
Blackford	Hendricks	Morgan	Sullivan
Boone	Howard	Newton	Switzerland
Carroll	Huntington	Noble	Tippecanoe
Cass	Jackson	Orange	Tipton
Clark	Jasper	Owen	Union
Clay	Jay	Parke	Vanderburgh
Clinton	Jefferson	Perry	Vermillion
Daviess	Jennings	Pike	Vigo
Decatur	Johnson	Porter	Wabash
DeKalb	Knox	Posey	Warrick
Delaware	Koscuisko	Pulaski	Washington
Dubois	LaGrange	Putnam	Wells
Elkhart	Lake	Randolph	White
Fountain	LaPorte	Ripley	Whitley
Franklin	Lawrence	Rush	
Gibson	Marion	Scott	

Evaluation Results
This is a first run on the data that were collected. Simple counts and percentages are shared here. More analysis will be completed this summer.

Acreage
Responses showed that most attendees reported having over 1,000 acres.

How many acres do you currently farm or advise?

Acres	# of Responses
Doesn't apply to me	362 (10%)
50 or less	109 (3%)
51 to 100	127 (3%)
101 to 500	636 (17%)
501 to 1000	614 (16%)
Over 1000	1874 (50%)
Grand Total	**3722**

Knowledge - Before and After Training
Attendees indicated their level of knowledge of potential dicamba issues before and after the training. In general, across the dicamba issues, the average scores on the responses are showing movement toward an increase in knowledge after training compared to before the training. (Counts and percentages of responses are posted in data tables at the end.)

What is your level of knowledge about these?   **Average level of knowledge (1= None, 4=Expert)**

"Decreasing drift"   Before = 2.4   After = 3.1
"Decreasing volatilization"   Before = 2.3   After = 3.0
"Buffers of at least 110 feet"   Before = 2.2   After = 3.1
"Wind direction toward sensitive crops"   Before = 2.4   After = 3.1
"Wind speed between 3 and 10 mph"   Before = 2.3   After = 3.1
"Rainfall forecast within 24 hours"   Before = 2.1   After = 3.1
"Regulatory authority of drift complaints" Before = 2.1   After = 3.0

Knowledge scores
Attendees were asked to select the correct response to the following. The largest percentage of attendees (98.8%) correctly identified the boom height.

Knowledge Question	% Correct
What is the proper boom height for dicamba application? (n=3713)	98.8%
What is dicamba volatilization? (n=3489)	95.7%
How do you locate dicamba sensitive crops in your area? (n=3591)	82.0%
Where do you find information on the proper nozzles for dicamba application? (n=3227)	62.9%
What is drift with dicamba application? (n=3387)	20.4%

Planned Actions in 2018
Attendees indicated actions they are planning to take in 2018. The largest number of attendees indicated that they would: 1) Maintain required records, 2) Review updated dicamba regulations, and 3) Prepare checklist for spray day. On each of these items there were 10%-18% responses from attendees who indicated these actions did not apply to them.

Actions Planning to Take in 2018	% Yes
Maintain required records (n=3699)	75.6%
Review updated dicamba regulations (n=3712)	75.4%
Prepare checklist for spray day (n=3688)	72.4%
Inventory sprayer nozzles (n=3709)	63.4%
Survey nearby dicamba sensitive crops (n=3707)	62.2%
Map out buffers (n=3697)	55.5%
Plant dicamba-ready beans in 2018 (n=3729)	50.8%
Apply/Advise dicamba in 2018 (n=3731)	45.7%

Recommendations

The evaluation for this training was created to capture a moment in time when a single course would be made available to all who are PARP certified. From this designed and implemented project of statewide coordination, we were able to collect a lot of helpful information.

Based on this preliminary look at the data, the attendees appear to have gained knowledge about the issues related to use of dicamba. A majority of the attendees indicated that they plan to take on recommended practices for dicamba application.

Further analysis will be completed for reporting on the impact of knowledge gained and intentions for adoption of practices in 2018.

Knowledge - Before and After Training
Data on the Reponses
What is your level of knowledge about these?
(Data shown indicate the numbers (and percentages) of attendee responses.)

"Decreasing drift"

Level of knowledge	Before training	After training
None	201 (5.3%)	11 (0.3%)
Some	2134 (56.6%)	280 (7.8%)
Much	1319 (35.0%)	2760 (77.1%)
Expert	113 (3.0%)	528 (14.8%)
Grand Total	**3767**	**3579**

"Decreasing volatilization"

Level of knowledge	Before training	After training
1 None	306 (8.1%)	14 (0.4%)
2 Some	2286 (60.8%)	396 (11.1%)
3 Much	1075 (28.6%)	2693 (75.3%)
4 Expert	93 (2.5%)	471 (13.2%)
Grand Total	**3760**	**3574**

"Buffers of at least 110 feet"

Level of knowledge	Before training	After training
1 None	629 (16.7%)	9 (0.3%)
2 Some	1908 (50.8%)	272 (7.6%)
3 Much	1067 (28.4%)	2616 (73.3%)
4 Expert	153 (4.1%)	672 18.8%)
Grand Total	**3757**	**3569**

"Wind direction toward sensitive crops"

Level of knowledge	Before training	After training
1 None	236 (6.3%)	9 (0.3%)
2 Some	1853 (49.4%)	216 (6.1%)
3 Much	1449 (38.7%)	2630 (73.8%)
4 Expert	211 (5.6%)	711 (19.9%)
Grand Total	**3749**	**3566**

"Wind speed between 3 and 10 mph"

Level of knowledge	Before training	After training
1 None	439 (11.7%)	7 (0.2%)
2 Some	1810 (48.2%)	221 (6.2%)
3 Much	1281 (34.1%)	2585 (72.1%)
4 Expert	226 (6.0%)	770 (21.5%)
Grand Total	**3756**	**3583**

"Rainfall forecast within 24 hours"

Level of knowledge	Before training	After training
1 None	867 (23.1%)	11 (0.3%)
2 Some	1881 (50.1%)	279 (7.8%)
3 Much	876 (23.3%)	2604 (72.9%)
4 Expert	132 (3.5%)	678 (19.0%)
Grand Total	**3756**	**3572**

"Regulatory authority of drift complaints"

Level of knowledge	Before training	After training
1 None	667 (17.8%)	27 (0.8%)
2 Some	2166 (57.9%)	480 (13.5%)
3 Much	805 (21.5%)	2555 (71.7%)
4 Expert	101 (2.7%)	501 (14.1%)
Grand Total	**3739**	**3563**