AGRICULTURE
STRONGER THAN THE STORM

ESA UPDATE

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2025 ADJUVANTS, INERTS & CROP PROTECTION CONFERENCE

cpda

THANK YOU!

What has been accomplished together:

- Adjuvants have been added as a mitigation option in the Herbicide Strategy!
- Ongoing and open collaboration with EPA
- Polyacrylamide and guar herbicide data submitted
- Insecticide drift data submitted
- Fungicide data generation in progress
- Continued opportunity to support our growers in practical, low-cost, and effective mitigation measures

DRA Mitigation-Herbicide Strategy Table

** These spray classifications are either ambiguously defined in the text/tables or not directly referenced. The calculated values are inferred.*
*** High corresponds to greater than 2', and low corresponds to 2'.*
**** These values are calculated from the % reduction of the 230' baseline as opposed to using the tabulated values.*

Nozzle	Boom Height **	Herbicide Alone (table 4-6)		With Adjuvant (table 4-7)		
		Buffer (ft)***	% Reduction	Additional % Reduction****	Buffer (ft)***	Total % Reduction
VF*	High	230	0%	0%	230	0%
	Low	230	0%	0%	230	0%
F	High	230	0%	0%	230	0%
	Low	138	40%	0%	138	40%
M	High	103.5	55%	30%	34.5	85%
	Low	80.5	65%	30%	11.5	95%
C	High	80.5	65%	15%	46	80%
	Low	57.5	75%	15%	23	90%
VC*	High	80.5	65%	15%	46	80%
	Low	57.5	75%	15%	23	90%
XC*	High	80.5	65%	15%	46	80%
	Low	57.5	75%	15%	23	90%
UC*	High	80.5	65%	15%	46	80%
	Low	57.5	75%	15%	23	90%

We've Come a Long Way!

November 2023

March 2024

EPA & CPDA Partnership

Continuing Collaboration

Next Steps

- Guar and Polyacrylamide adjuvant data has been submitted for review
- Insecticide adjuvant drift data has been submitted for review
- Fungicide adjuvant drift data submitted for review
- Continued collaboration - how else can we help?

Summary of Data & Communications

Fungicide Data Set

- 1072 total measurements (lines)
  - 884 new measurements
  - 188 from May 2024 data submission
- 20 unique formulated fungicides
  - 18 active ingredient combinations
  - 1 – 3 actives per formulated fungicide
- 8 unique nozzles
- 64 herbicide x nozzle x pressure combinations
  - 253 adjuvant test combinations

All Fungicide Data

Pesticides (F only)
Azoxystrobin + Benzovindiflupyr + Propiconazole
Azoxystrobin + Cyproconazole
Azoxystrobin + Prothioconazole
Bixafen + Fluopyram + Prothioconazole
Bixafen + Flutriafol
Cyproconazole
Fluxapyroxad + Pyraclostrobin
Mancozeb
Mefentrifluconazole + Pyraclostrobin
Mefentrifluconazole + Pyraclostrobin + Fluxapyroxad
Prothioconazole + Spiroxamine
Prothioconazole + Tebuconazole
Prothioconazole + Triflozystrobin
Prothioconazole + Triflozystrobin + Fluopyram
Pydiflumetofen + Azoxystrobin + Propiconazole
Pydiflumetofen + Difenoconazole
Pyraclostrobin
Pyraclostrobin + Metconazole

Pesticide Formulations
EC
SC
SE
SL
WG

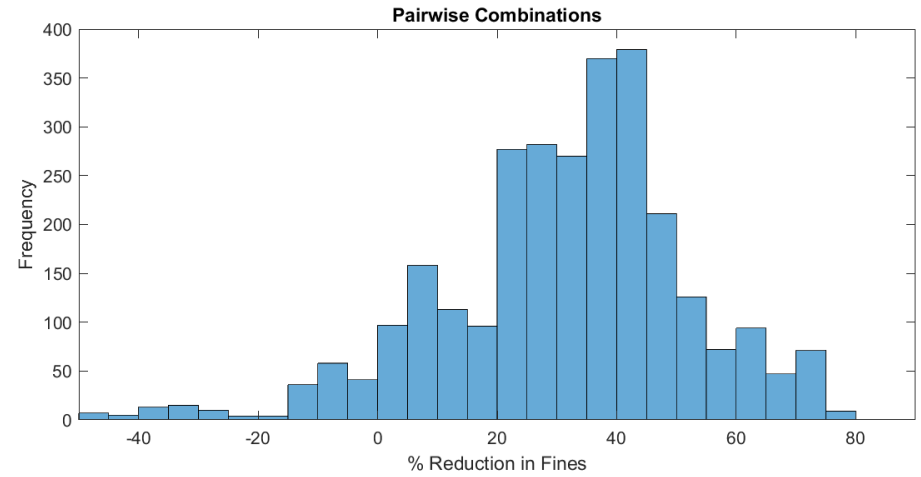
Nozzles
AIXR11003
AIXR11004
ER11003
LD11003
TT11004
XR11003
XR11004
XR11006

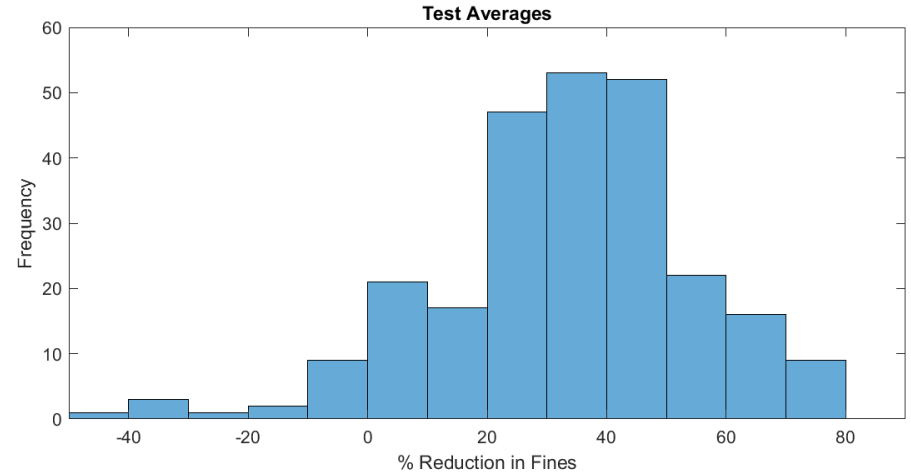
Pressures (psi):
Min:29.00 Max:58.00 μ:40.33 σ:2.78

Drift Adjuvant Type
Emulsion
Guar
Polyacrylamide

Pairwise Stats
Number of Pairwise Combinations: 2865
Mean Reduction in Fine Droplets: 31.41%
Standard Deviation: 20.60%
95% Confidence Interval: ±40.40%
Min Reduction: -49.09% Max Reduction: 76.89%
5th Percentile: -6.03%
50th Percentile: 33.84%
95th Percentile: 63.92%

Ensemble Stats
Number of Test Combinations: 253
Mean Reduction in Fine Droplets: 32.99%
Standard Deviation: 21.24%
95% Confidence Interval: ±41.83%
Min Reduction: -46.07% Max Reduction: 74.63%
5th Percentile: -6.38%
50th Percentile: 35.97%
95th Percentile: 66.85%





Summary of all CPDA Data Submitted

Fungicides (4/2024)

- 1072 total measurements (rows/lines)

Fungicide + Herbicide Data (5/2024)

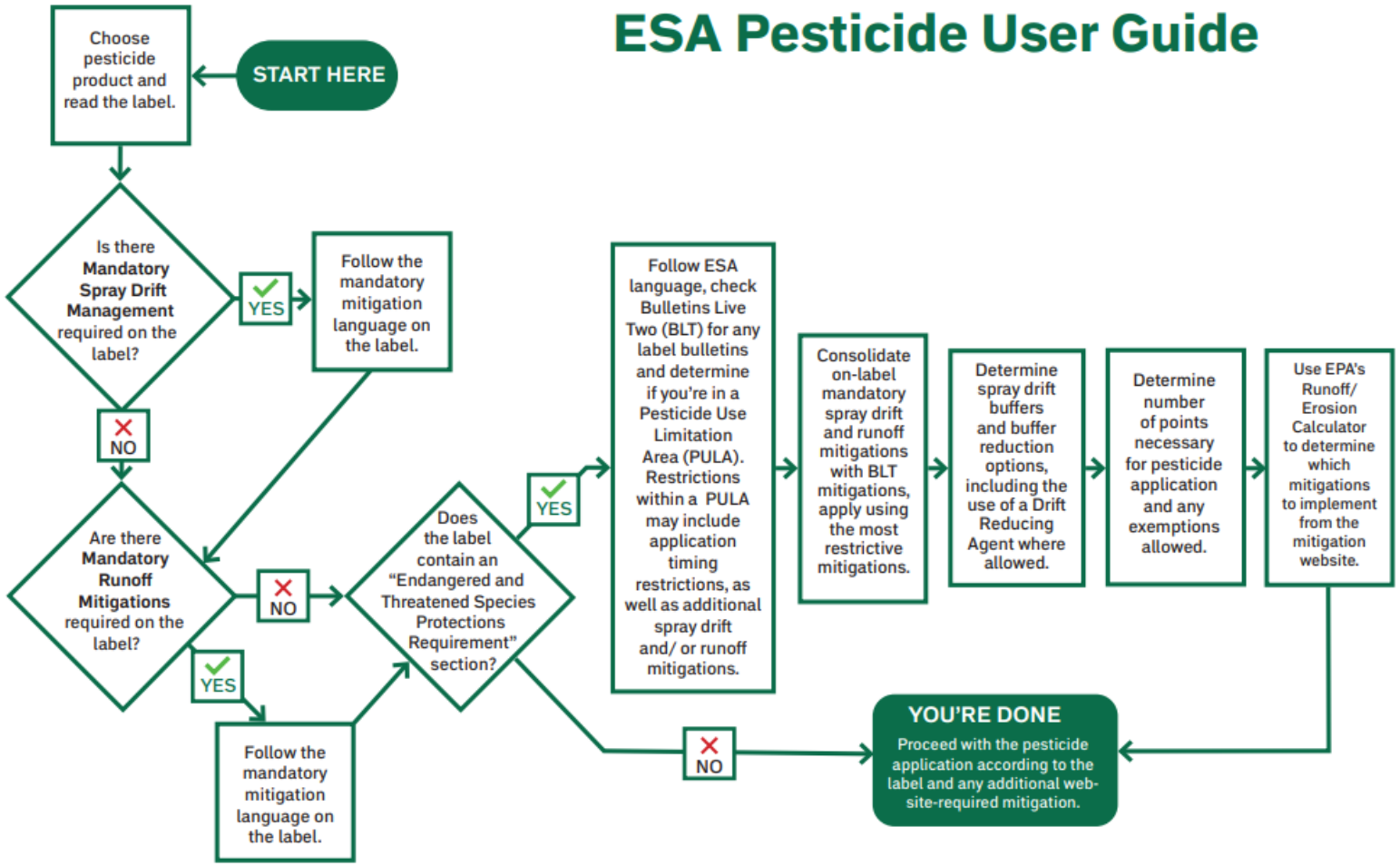
- 1095 total measurements
  - Complete DSDs for herbicides only: 510 Measurements
  - Including incomplete DSDs for herbicides: 907 Measurements

Insecticide (12/2024)

- 1008 total measurements

- Guar and polymer data (9/2024)
- 1,063 total measurements
- Hewitt – public comment (9/24)
- Data on >250 DRAs

Joint Communication



Visit ***CropLifeAmerica.org/esa*** to learn more.

CropLife AMERICA

cpda Council of Producers & Distributors of Agrotechnology

Agricultural Retailers Association

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