



## What is ARRAY?

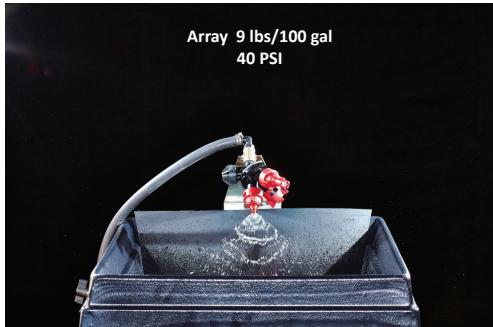
Target Performance Adjuvant that increases the deposition, retention and performance of post applied pesticides.

ARRAY is specifically designed to improve pesticide performance by reducing antagonism in the spray tank, delivering more pesticide to the target and improving pesticide uptake.

## What does ARRAY do?

- Creates larger spray droplets for maximum deposition
  - Larger spray droplets penetrate dense canopies better
- Has adhesive/anti-rebound properties for spray droplets
- Slows droplet drying time allowing for more herbicide uptake
- Decreases surface tension
- Resist pump-shear
- Provides sulfate ions to tie up hard water ions
- Provides Ammonium ions that increase herbicide uptake via ion trapping
  - AMS load is 8.5 lbs. / 100 gallons
- Minimizes foaming issues

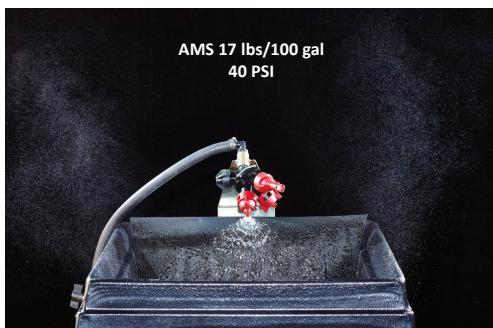
## ARRAY Out Performs AMS and Other Competitive Adjuvants!



### Reduces Fines:

ARRAY reduces the amount of driftable fines. When compared to Spray Grade AMS and another competitive deposition/drift aid product, Array has significantly reduced the amount of fines.

This will lead to more product reaching the intended target.



### Canopy Penetration:

ARRAY increases the ability of the droplet to reach the lower third of the crop canopy.

This is important for herbicide, insecticide and fungicide applications.

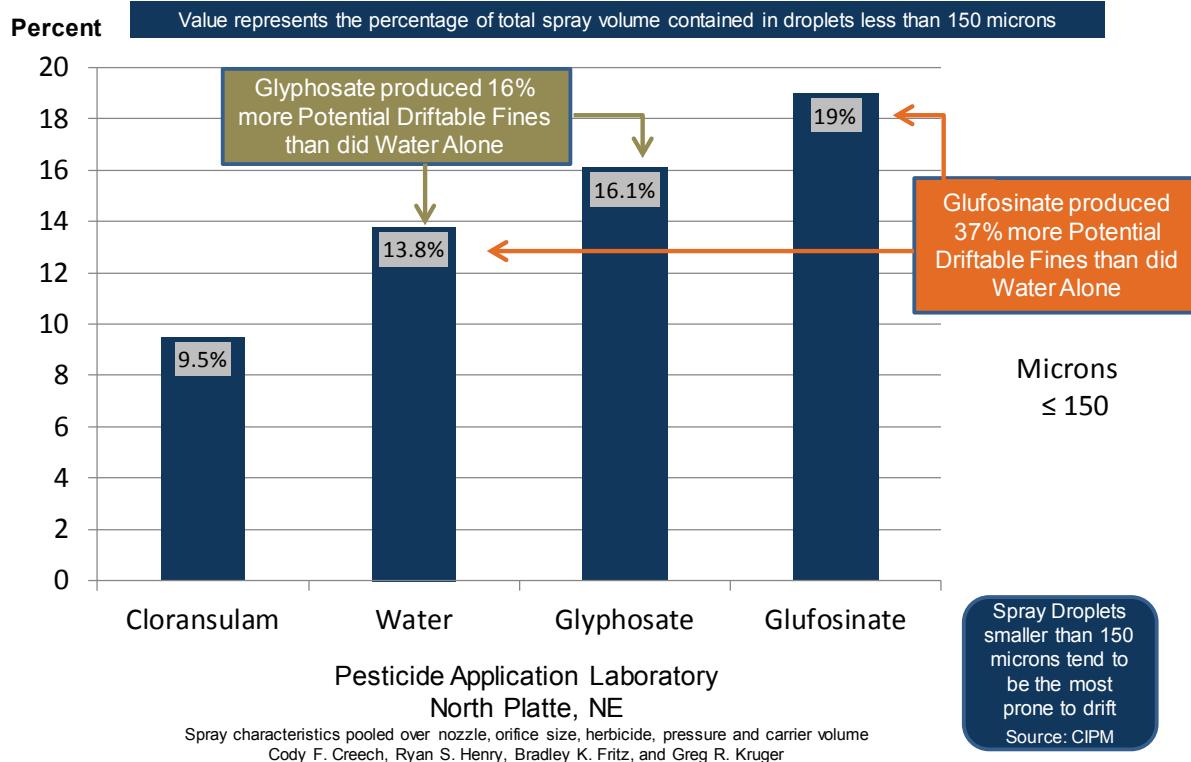


Top (40%)  
Middle (35%)  
Bottom (25%)



# Understanding The Spray Droplet

## Influence of Herbicide Active Ingredient



## Evaporation and Deceleration of Various Size Droplets

| Droplet Diameter (microns) | Time to evaporate (sec) | Deceleration distance (in) | Final Drop diameter (microns) |
|----------------------------|-------------------------|----------------------------|-------------------------------|
| 20                         | 0.3                     | <1                         | 7                             |
| 50                         | 1.8                     | 3                          | 17                            |
| 100                        | 7                       | 9                          | 33                            |
| 150                        | 16                      | 16                         | 50                            |
| 200                        | 29                      | 25                         | 67                            |

Conditions assumed: 90 F, 36% R.H., 25 psi., 3.75% pesticide solution

Source: L. E. Bode & B. J. Butler – The Three D's of Droplet Size; Diameter, Drift, Deposit