



Effect of Fertilizer Placement through Furrow-Jet in Corn

Cooperative Project with Precision Planting

Experiment Info:

Planted:	
Harvest:	
Yield Goal:	
Target Fert.:	
Variety:	
Population:	
Row Width:	30"
Prev. Crop:	Soybean
Plot Size:	5 acres
Replications:	1

Soil Test Values (ppm):

pH:	6.3
CEC:	17
%OM:	3
Bray P1:	21
Bicarb P:	
K:	121
S:	3.3
%K:	1.8
%Mg:	21
%Ca:	63.2
%H:	14
Zn:	0.7
Mn:	4
B:	0.9

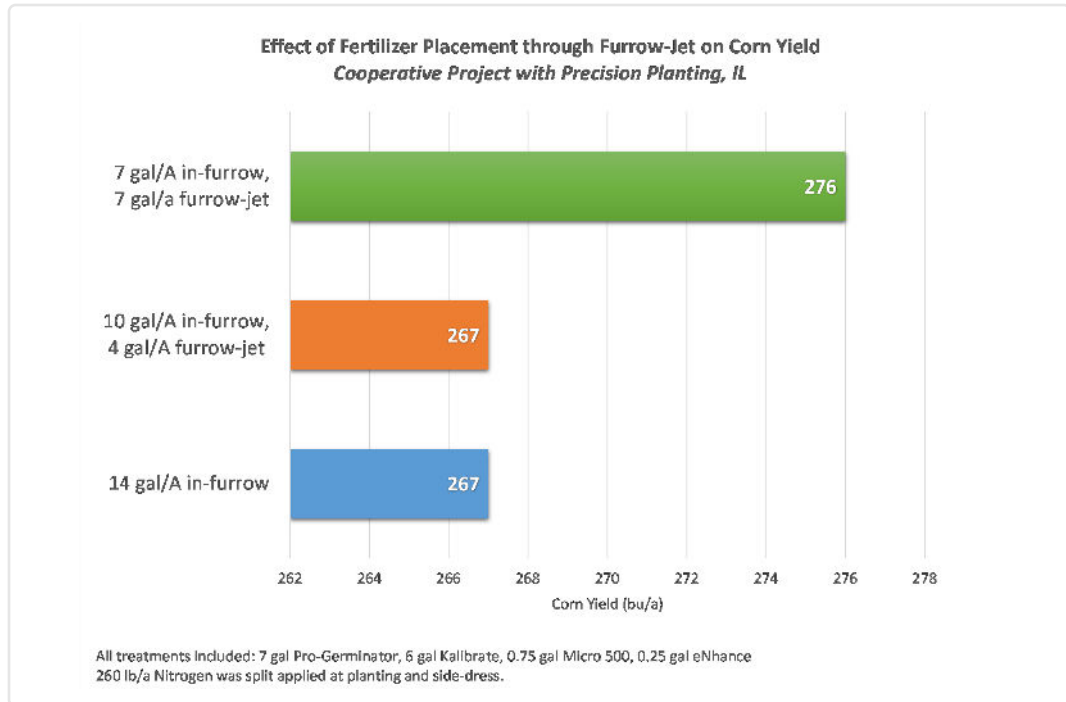
Objective:

Evaluate the effect of fertilizer placement through Precision Planting's Furrow-Jet applicator on corn yield.

AgroLiquid generally recommends no more than 10 gal/acre of fertilizer mixes be applied in-furrow in corn planted in 30"-row spacing. Precision Planting Company recently introduced Furrow-Jet, a method of applying part of the fertilizer mix in-furrow directly over the seed and part of the mix to each side of the furrow (3/4" away from seed).

The product mix used in this trial was 7 gal/A Pro-Germinator + 6 gal/A Kalibrate + 0.75 gal/A Micro 500 + 0.25 gal/A eNhanse for a total of 14 gal/A. The mix was applied 100% in-furrow, 70% in-furrow + 30% to side of seed, or 50% in-furrow + 50% to side of seed. The 14 gal/A rate is higher than the recommended maximum rate of 10 gal/A applied in-furrow.

This was a cooperative project with Precision Planting to evaluate high rates of AgroLiquid products applied through the Furrow-Jet system.



Conclusions:

- Placing high rates (14 gal/A) of an AgroLiquid fertilizer mix 50% in-furrow and 50% to the side of the seed improved corn yield compared to 70% in-furrow + 30% to the side of the seed, or 100% in-furrow. This project demonstrates the utility of using the Furrow-Jet system to safely deliver high rates of AgroLiquid fertilizer at planting.
- NOTE: The products used in this trial are commonly used in-furrow. There was no additional nitrogen or other products that are not commonly recommended to go in-furrow in this trial.