



At-Planting Fertilizer Placement on Soybeans, 2022

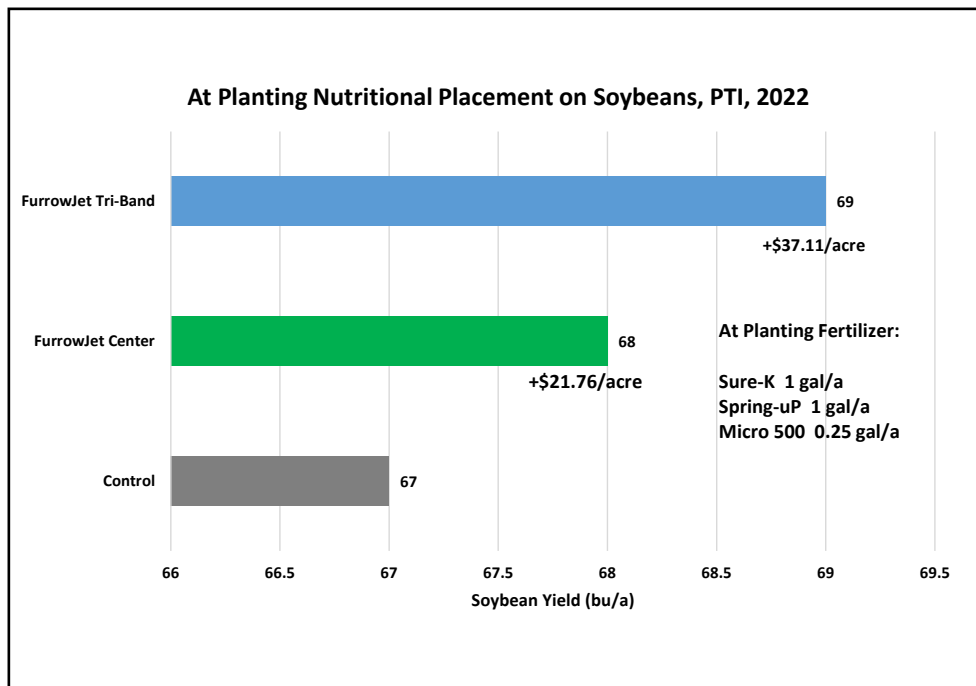
Precision Planting (PTI), Pontiac, IL

Experiment Info	
Planted:	4/28/22
Harvested:	10/12/22
Yield Goal:	70
Variety:	
Pop.:	
Row Width:	30"
Prev. Crop:	Corn
Plot Size:	
Reps:	

Soil Test (ppm)	
pH:	6.2
CEC:	25
%OM:	3.1
Bray P1:	35
Bicarb P:	
K:	180
S:	12
%K:	1.9
%Mg:	12.5
%Ca:	68
%H:	17.6
Zn:	1.6
Mn:	4
B:	0.3

Objective:

- The objective of the trial was to evaluate the yield and economic value of single band vs. three band fertilizer application through FurrowJet on soybean.
- All at-planting fertilizer treatments were made with FurrowJet, either through the center stream or all three streams (Tri-Band placement). The planter fertilizer program included Sure-K 1 gal/a + Spring-uP 1 gal/a + Micro 500 0.25 gal/a. Those treatments were compared to a non-treated control.
- All plots were irrigated throughout the growing season.



Conclusions:

- At-plant fertilizer application through the center stream increased yield by 1 bu/acre compared to the control. Changing the fertilizer placement from the center stream to all three streams increased yield by an additional 1 bu/acre.
- Using soybean price of \$13.96/bu and average retail fertilizer prices, the fertilizer placement treatments provided an increased net return of \$21.76 and \$37.11/acre, respectively. Since the same fertilizer treatment was used for both placements, the fertilizer cost was the same for both placements.