



# At-Planting and Foliar Fertilizer on Soybeans, 2022

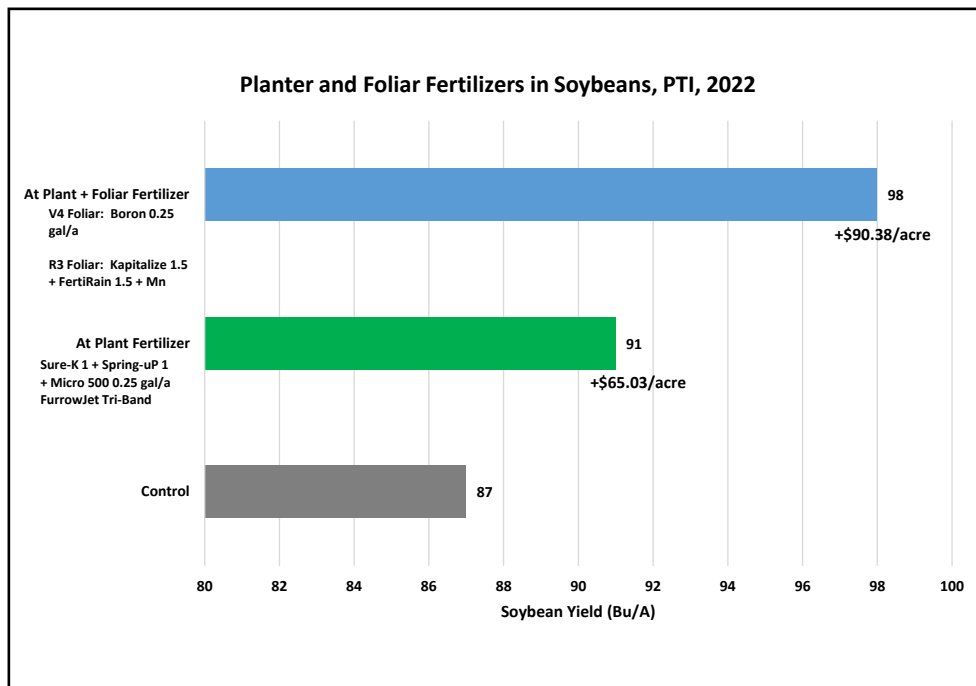
Precision Planting (PTI), Pontiac, IL

| 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 an at-planting soybean fertilizer program and the additional value of a foliar fertilizer program.
- All at-planting fertilizer treatments were made with FurrowJet Tri-Band placement. The planter fertilizer program included Sure-K 1 gal/a + Spring-uP 1 gal/a + Micro 500 0.25 gal/a.
- A foliar treatment of Boron at 0.125 gal/acre at V4 growth stage, and Kapitalize 1.5 + FertiRain 1.5 + Manganese 0.125 gal/a at R3 growth stage.
- All plots were irrigated throughout the growing season.



## Conclusions:

- High management treatments of irrigation + at-planting fertilizer resulted in a 4 bu/acre yield increase over the control. The combination of Sure-K + Spring-uP + Micro 500 provided needed early season soybean nutrition.
- In-season addition of Kapitalize, Boron and Manganese provided potassium, calcium, sulfur micronutrients that provided an added value of 7 bu/acre yield increase over at-planting fertilizer alone.
- Using soybean price of \$13.96/bu and average retail fertilizer prices, the high management treatments provided an increased net return of \$65.03 and \$90.38/acre, respectively.