



Effect of Planter Applied + Foliar Fertilizers on Soybean

Mulford Agronomics, Maryland

Experiment Info:

Planted:	05/23/2019
Harvest:	10/27/2019
Yield Goal:	70
Target Fert.:	
Variety:	
Population:	150000
Row Width:	15"
Prev. Crop:	corn
Plot Size:	15' X 50'
Replications:	4

Soil Test Values (ppm):

pH:	6.9
CEC:	7.2
%OM:	3.5
Bray P1:	84
Bicarb P:	
K:	168
S:	11
%K:	6
%Mg:	1.39
%Ca:	78.5
%H:	1.4
Zn:	34
Mn:	58
B:	0.4

Objective:

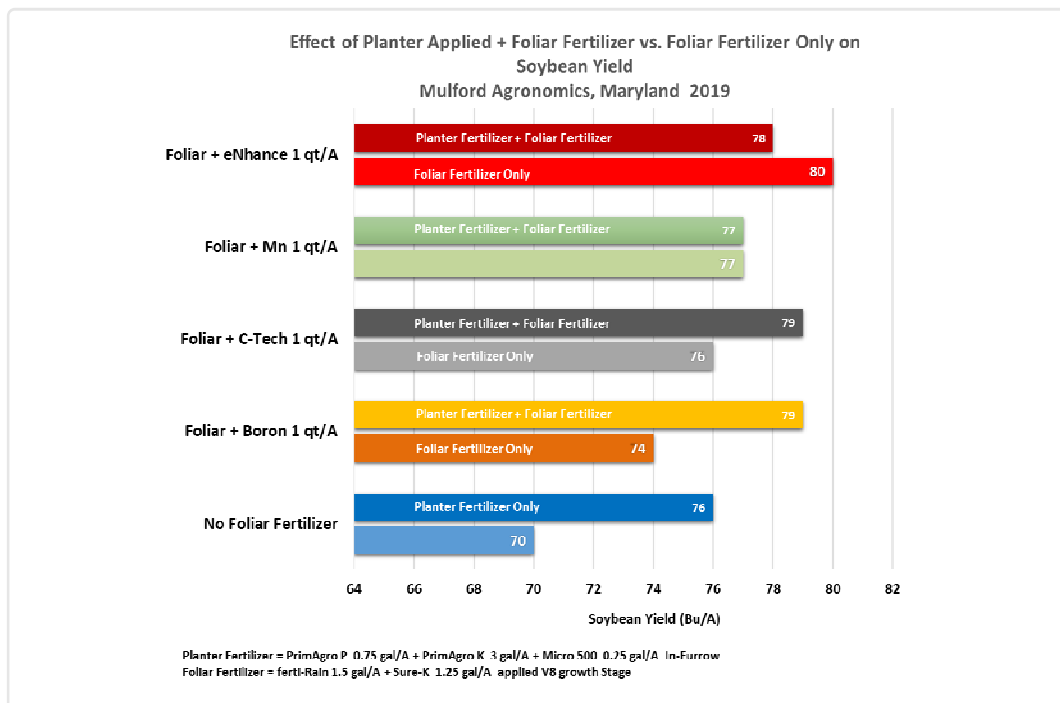
Compare the effect of planter applied + foliar applied fertilizers to foliar applied fertilizers alone on soybean yield.

This project was conducted by Ron Mulford, Mulford Agronomics, in Maryland.

Foliar fertilizer base treatment was ferti-Rain 1.5 gal/a + Sure-K 1.25 gal/a applied at V8 growth stage. Additional components to the foliar treatments included MicroLink Boron, MicroLink Manganese, C-Tech, or eNhance applied at 0.25 gal/a.

Foliar treatment combinations were applied alone or after an in-furrow planter application of PrimAgro P 0.75 gal/a + PrimAgro K 3 gal/a + Micro 500 0.25 gal/a.

All plots received 100 lb/a potash applied pre-plant incorporated.



Conclusions:

- All foliar fertilizer combinations provided increased soybean yield compared to no foliar fertilizer, and the best foliar combination included eNhance at 1 qt/a.
- Planter fertilizer application of PrimAgro P + PrimAgro K + Micro 500 provided a 6 bu/acre yield increase compared to the no foliar fertilizer check.
- Planter applied fertilizer + foliar applied fertilizer increased soybean yield compared to foliar fertilizer alone when the foliar treatment included boron or C-Tech.
- The planter applied + foliar applied fertilizer treatments that contained manganese or sulfur (eNhance) did not improve yield compared to the foliar treatment alone. This may be due to the high manganese level in the soil, and the planter applied treatment included both manganese and sulfur (PrimAgro P and PrimAgro K)