



Phosphorus Rate and Placement in 30" row Soybeans (15-703)

Experiment Info:

Planted:	5/20/2015
Harvest:	10/18/2015
Yield Goal:	60 bu/A
Target Fert.:	0-83-79
Variety:	20RD20
Population:	140,000
Row Width:	30"
Prev. Crop:	Corn
Plot Size:	15 x 265
Replications:	4
YD (R1)	7/22/2015

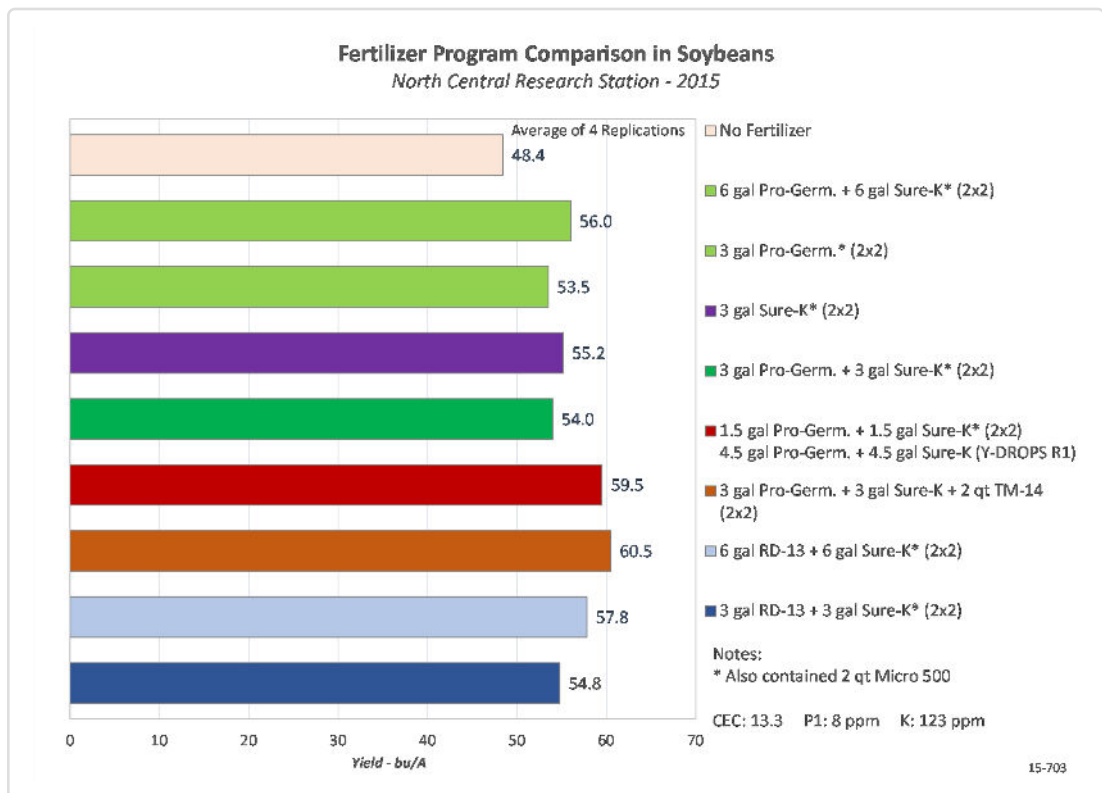
Soil Test Values (ppm):

pH:	6.4
CEC:	13.3
%OM:	2.3
Bray P1:	8
Bicarb P:	-
K:	123
S:	11
%K:	2.4
%Mg:	16.2
%Ca:	72.3
%H:	8.7
Zn:	1.3
Mn:	8
B:	0.5

Objective:

To compare AgroLiquid phosphorus rate and placement methods in 30" row soybeans.

This experiment site tests low in phosphorus and was chosen to test Pro-Germinator and RD-13, an experimental phosphorus product, along with testing the placement of these nutrients as a split application using Y-DROPS. A high rate of 6 gal/A Pro-Germinator + 6 gal/A Sure-K was applied for testing purposes. The substitution of RD-13 was made at this higher rate as well as the split application. The remaining treatments used a recommended 3 gal/A Pro-Germinator. All planter applications were applied 2x2 and included 2 qt/A Micro 500 except where an experimental micro nutrient (TM-14) was substituted. The Y-DROP application applied a split amount of the total program along each side of the experiment rows, giving the plant root systems easy access to the nutrients. A chart of the harvested yields appears below.



LSD(0.2) 4.7, CV: 14.1%

Conclusions:

- In this experiment on soybeans, a split application using Y-DROPS at R1 gave a 3.5 bu/A advantage over the high rate of Pro-Germinator applied with the planter.
- The experimental product TM-14 provided a 6.5 bu/A advantage over the comparable Micro 500 treatment.
- RD-13 continues to show very similar yields to Pro-Germinator with a slight increase in yields over the Pro-Germinator in this experiment.