



30" Row Soybean Fertilizer Programs (15-311)

Experiment Info:

Planted:	5/14/2015
Harvest:	10/22/2015
Yield Goal:	60 bu/A
Target Fert.:	0-18-169
Variety:	22RD00
Population:	156,000
Row Width:	30"
Prev. Crop:	Corn
Plot Size:	15 x
Replications:	5
YD (V1-2)	6/17/2015
YD (R1)	7/22/2015
UC (R1)	7/27/2015
FOL (R1)	8/11/2015

Soil Test Values (ppm):

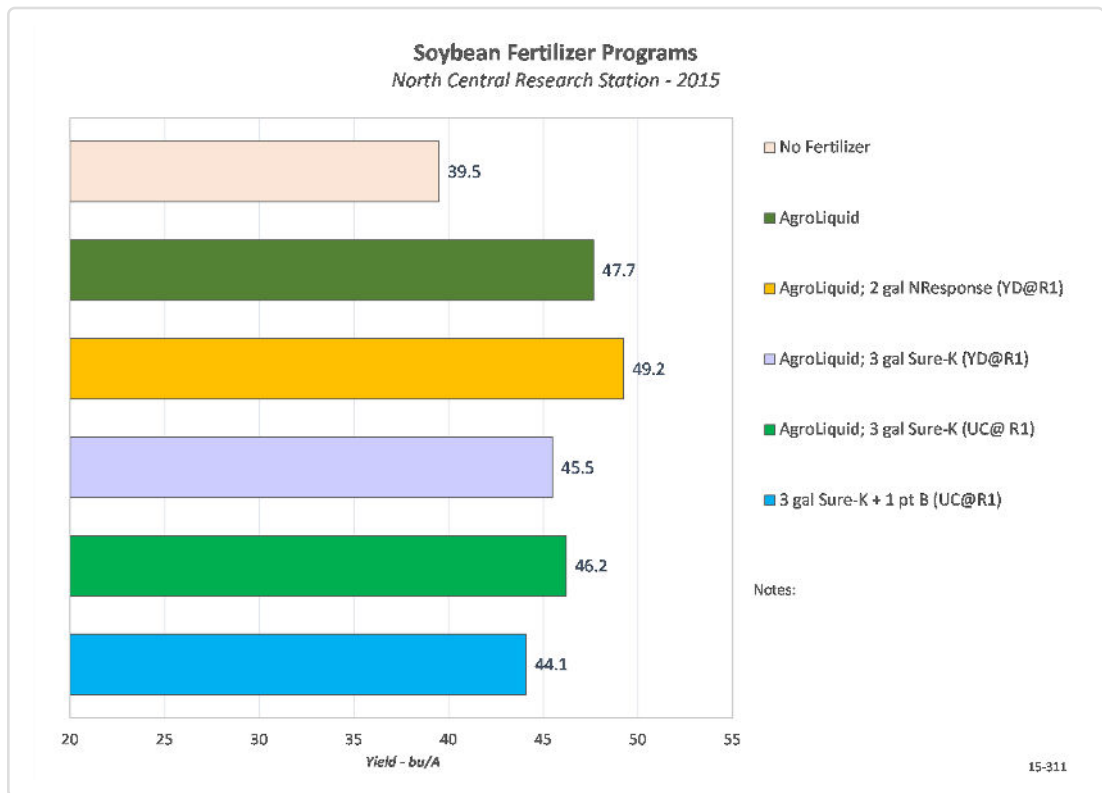
pH:	7.3
CEC:	7.6
%OM:	2
Bray P1:	21
Bicarb P:	7
K:	47
S:	14
%K:	1.6
%Mg:	16.9
%Ca:	80.5
%H:	0
Zn:	1.1
Mn:	3
B:	.4

Objective:

To evaluate additional soybean nutrition applied with new methods of application on 30" rows.

The new methods of application this season consisted of Y-DROPS (YD) and UNDERCOVER (UC) from 360 Yield Center. The YD deliver and place a band of nutrition through 2 hoses at the base of the plant. The UC are mounted above the YD and apply nutrition in a multi directional spray from the center of the row and within the crop canopy.

Soybeans were planted in 30" rows using an "AgroLiquid" program as seen in the chart below of 7 gal/A Sure-K + 2 qt/A Micro 500 applied 2x2 with the planter on May 14, 2015. Additional nutrition applications consisted of 2 gal/A of NResponse applied with Y-DROPS (YD) at R1 growth stage to provide additional nitrogen or 3 gal/A of Sure-K which provided additional potassium necessary to meet soil test recommendations and applied either with Y-DROP or UNDERCOVER (UC) at R1 growth stage. A foliar only program of 3 gal/A of Sure-K + 1 pt/A Boron was applied with UNDERCOVER at R1 as a comparison treatment. Y-DROP applications were applied on July 22 and UNDERCOVER applications were made on July 27.



LSD(0.2)5.6, CV: 15.8%

Conclusions:

- The AgroLiquid planter applied treatment yielded 8.2 bu/A better than the no fertilizer treatment.
- NResponse applied with the Y-DROP provided a 1.5 bu/A non significant yield advantage over the recommended AgroLiquid program.
- The foliar only program of 3 gal/A of Sure-K + 1 pt Boron provided a 4.6 bu/A increase over the no fertilizer treatment.