

Experiment Info:

Planted:	5/28
Variety:	Pioneer 95Y70
Row Spacing:	19"
Previous Crop:	soybeans
Harvested:	11/10

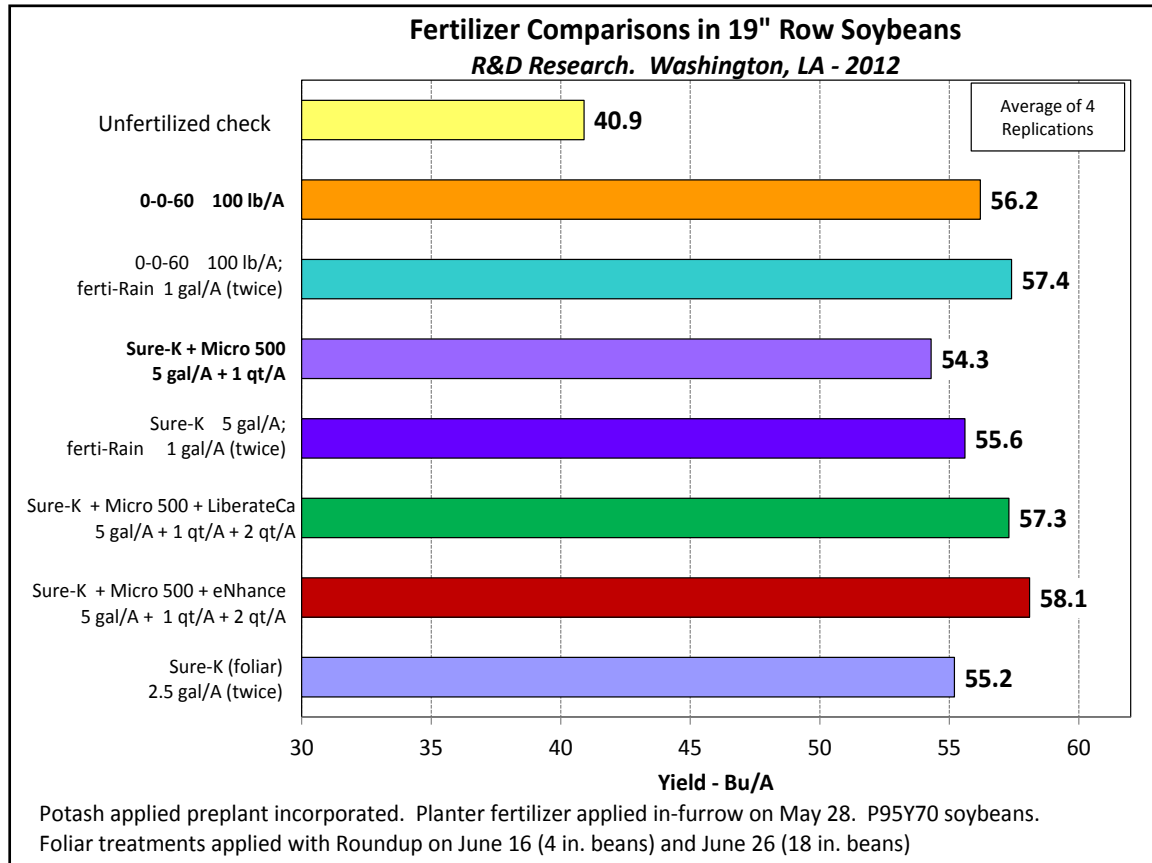
Soil Test Values (ppm):

pH:	6.8
CEC:	10.2
% OM:	1.8
M3-P:	56
M3-K:	107
M3-S:	8
% K:	2.5
% Mg:	29.6
% Ca:	63.3
% H:	3.0
% Na:	1.6
Zn:	1.5
Mn:	2.2
B:	1.2

Objective:

Compare different fertilizer options for fertilizing soybeans grown in 19" row spacing.

In the South, cotton is commonly grown in rows as much as 38 inches wide. Due to this spacing on the planter, other crops such as soybeans are also grown in 38 inch rows. AgroLiquid does not recommend in-furrow placement on wide rows due to concerns of plant injury. This experiment evaluated a simulated inter-row planting with row spacing of 19 inches, or half the traditional spacing. This was obtained by double planting of the plots, which probably would not be practical. But other planters offer inter-row planting of 15 inches on a 30 inch row spacing planter. But it was felt that Liquid fertilizers could be safely applied to 19 inch row spacing of soybeans. This soil was high in phosphorus and medium to low on potassium. Thus a recommendation of 60 lb/A of K2O was followed. A 100 lb/A application of 0-0-60 muriate of potash was applied as the standard and a 5 gal/A application of Sure-K in the seed furrow was the Liquid standard. Several different additives as well as foliar applications were also applied for comparison. Foliar applications were applied in combination with Roundup on June 16 (4 inch soybeans) and June 26 (18 inch soybeans). Treatment yields appear in the chart. The standard potash and Liquid treatments are in bold.



LSD(0.5): 6.9. CV: 8.6%

Conclusions:

- All fertilizer treatments significantly increased soybean yield.
- Although there were no statistically significant differences in yield of the fertilizer treatments, the treatment additives did result in a higher numerical average yield. This would include the ferti-Rain (following both potash and planter Sure-K, LiberateCa and eNhance).
- The two applications of foliar applied Sure-K yielded as well as the planter application.
- Future research may include comparison of similar fertilizer applications in 19 inch and 38 inch row spacing. Research at the NCRS has shown a much higher yield of soybeans grown in narrower rows.