Soybean Yield Response to Foliar Sure-K and fertiRain

White Hall, MD 2021

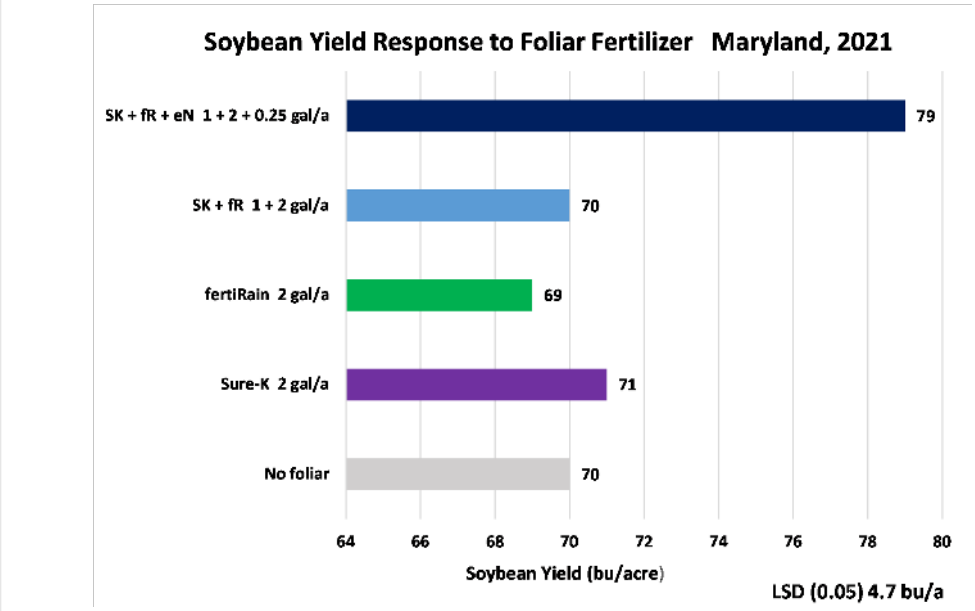
Experiment Info:	
Planted:	6/2/2021
Harvest:	11/9/2021
Yield Goal:	60
Target Fert.:	
Variety:	
Population:	144000
Row Width:	30"
Prev. Crop:	Corn
Plot Size:	10 X 30
Replications:	4

Soil Test Values (ppm):	
pH:	6.7
CEC:	7.9
%OM:	3.3
Bray P1:	93
Bicarb P:	
K:	155
S:	11
%K:	5
%Mg:	14
%Ca:	75
%H:	1
Zn:	5.7
Mn:	149
B:	139

Objective:

Evaluate yield response of foliar applied combinations of Sure-K, fertiRain, and eNhance in soybeans.

Sure-K and ferti-Rain were applied as a foliar treatment in soybeans at V8 growth stage. Each product was applied individually at 2 gal/acre or in combination of 1 gal/acre Sure-K + 2 gal/acre ferti-Rain. eNhance at 0.25 gal/acre was added to the Sure-K + fertiRain to evaluate the response of additional sulfur nutrition at that growth stage.



LSD (0.05) = 4.7 bu/acre

Conclusions:

- In this trial foliar application of Sure-K or ferti-Rain did not improve soybean yield compared to no foliar treatment. This may have been due, in part, to high phosphorus and potassium levels in the soil, and good growing conditions throughout most of the growing season.
- Addition of sulfur, as eNhance, provided a significant soybean yield increase. This result is consistent with previous research using eNhance as a foliar sulfur nutrition source.