In-Furrow Soybean Nutrition Study 2024

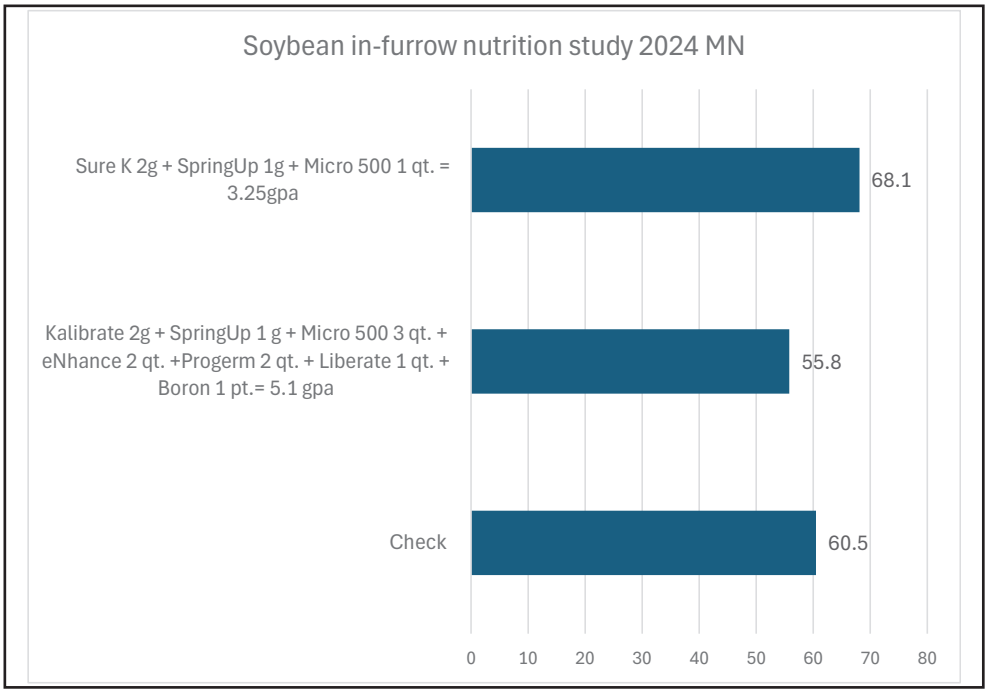
ABG Ag Services : Clara City, MN

Experiment Info	
Planted:	5/18/24
Harvested:	10/8/24
Yield Goal:	80
Variety:	
Pop.:	135,000
Row Width:	30"
Prev. Crop:	Corn
Plot Size:	10x400
Reps:	3

Soil Test (ppm)	
pH:	8.1
CEC:	27.8
%OM:	6.1
Bray P1:	
Bicarb P:	59
K:	354
S:	11
%K:	4
%Mg:	14.7
%Ca:	82
%H:	0
Zn:	3.1
Mn:	2.5
B:	2.2

Objective:

This is in an area of Minnesota with good to excellent soils, yet growers still note that row crops respond to starters. AgroLiquid normally recommends that in-furrow soybean starter blends should generally remain at 3 to 3.5 gpa as a maximum in-furrow rate in 30" rows. In a quest for higher bean yields, there is interest in pushing beans harder with "higher octant" blends at planting. The objective in this fun little study was to add to our understanding of soybean fertilizer sensitivity.



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Conclusions:

The more normal rate of 3.25 gpa of a blend consisting of Sure K, SpringuP, and Micro 500 increased bean yield by nearly 8 bu/ac in this field despite good soil fertility. The 5.1 gpa high rate blend of Kalibrate, SpringuP, ProGerm, Liberate, Micro 500, and boron suppressed yield to 5 bu below the untreated check. This supports the 3 to 3.5 gpa in-furrow guidance in 30" row soybeans.