Effect of Foliar Phosphorus Applications in Soybeans

Mulford Agronomics, Quantico, MD 2025

Experiment Info	
Planted:	6-30-25
Harvested:	11-5-25
Yield Goal:	
Variety:	
Pop.:	130000
Row Width:	30"
Prev. Crop:	wheat
Plot Size:	15' X 100'
Reps:	4

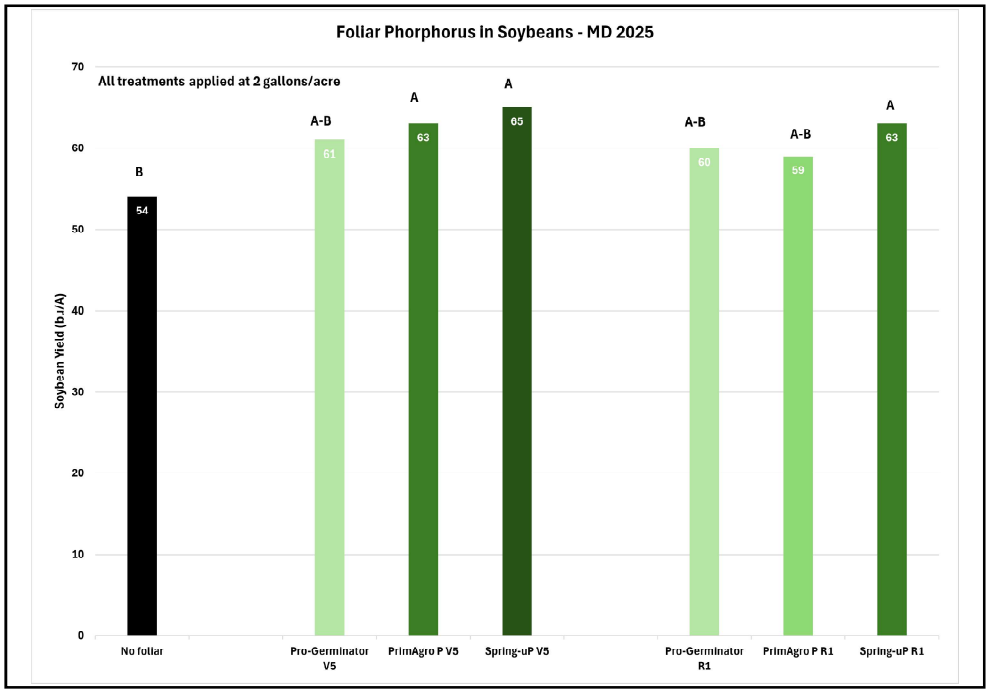
Soil Test (ppm)	
pH:	6.3
CEC:	7.9
%OM:	2.2
Bray P1:	20
Bicarb P:	
K:	72
S:	14
%K:	2
%Mg:	14
%Ca:	6.9
%H:	10
Zn:	1.5
Mn:	125
B:	0.5

Objective:

The objective of this trial was to determine the effectiveness of foliar applied phosphorus on soybean yield.

Pro-Germinator, PrimAgro P, and spring-uP are AgroLiquid phosphorus products that are commonly applied to soybeans in a soil application (in-furrow, 2X2). There is interest applying phosphorus as a foliar treatment to supplement soil applied applications or provide phosphorus in areas where soil applied phosphorus is limited. Pro-Germinator, PrimAgro P, or spring-uP were applied at V5 or R1 at 2 gallons of product per acre in 10 gallons per acre spray solution.

All plots received the same, potassium, sulfur and micronutrients at planting.



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Conclusions:

- Soybean yields were similar for foliar applications of Pro-Germinator, PrimAgro P, or spring-uP
- Spring-uP or PrimAgro P applied at V5, or spring-uP applied at R1 growth stage provided statistically higher yield than the no foliar control.
- Foliar phosphorus application to V5 soybeans performed comparably to applications at the R1 growth stage.
- This trial demonstrates the value of foliar applications of AgroLiquid phosphorus products, especially spring-uP, in soybeans.