Effect of Foliar Phosphorus Applications in Corn

Mulford Agronomics, Quantico, MD 2025

Experiment Info	
Planted:	4-30-25
Harvested:	11-10-25
Yield Goal:	
Variety:	
Pop.:	32000
Row Width:	30"
Prev. Crop:	soybean
Plot Size:	15' X 50'
Reps:	4

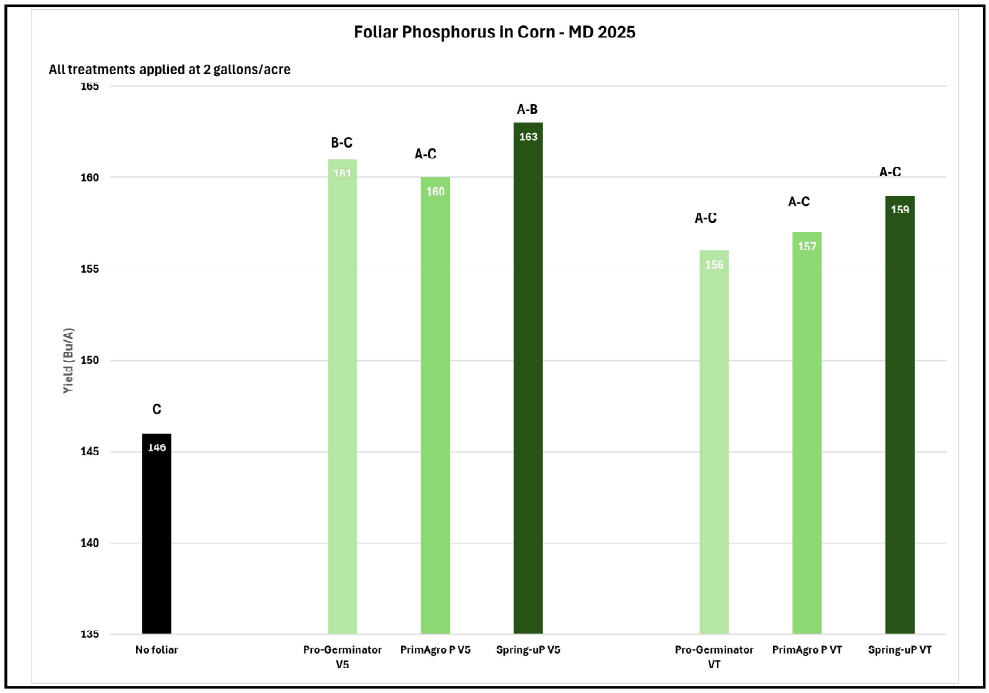
Soil Test (ppm)	
pH:	6.3
CEC:	7.9
%OM:	2.2
Bray P1:	20
Bicarb P:	
K:	72
S:	14
%K:	2
%Mg:	14
%Ca:	6.9
%H:	10
Zn:	1.5
Mn:	125
B:	0.5

Objective:

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

Pro-Germinator, PrimAgro P, and spring-uP are AgroLiquid phosphorus products that are commonly applied to corn in a soil application (in-furrow, 2X2 or side dress). 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 VT at 2 gallons of product per acre in 10 gallons per acre spray solution.

All plots received the same nitrogen, potassium, sulfur and micronutrients.



P<0.05

Conclusions:

- Corn yields were similar for foliar applications of Pro-Germinator, PrimAgro P, or spring-uP
- Spring-uP applied at V5 growth stage provided statistically higher yield than the no foliar control.
- Early foliar application (V5) of phosphorus tended to provide higher yields in corn than later (VT) applications.
- This trial demonstrates the value of foliar applications of AgroLiquid phosphorus products, especially spring-uP, in corn.