

Experiment Info:

Planted:	5/9
Variety:	P0216HR
Population:	31,500
Row Spacing:	30"
Previous Crop:	Corn
Plot Size:	15' x 530'
Replications:	4
Sidedress:	6/15
Harvested:	10/22

Soil Test Values (ppm):

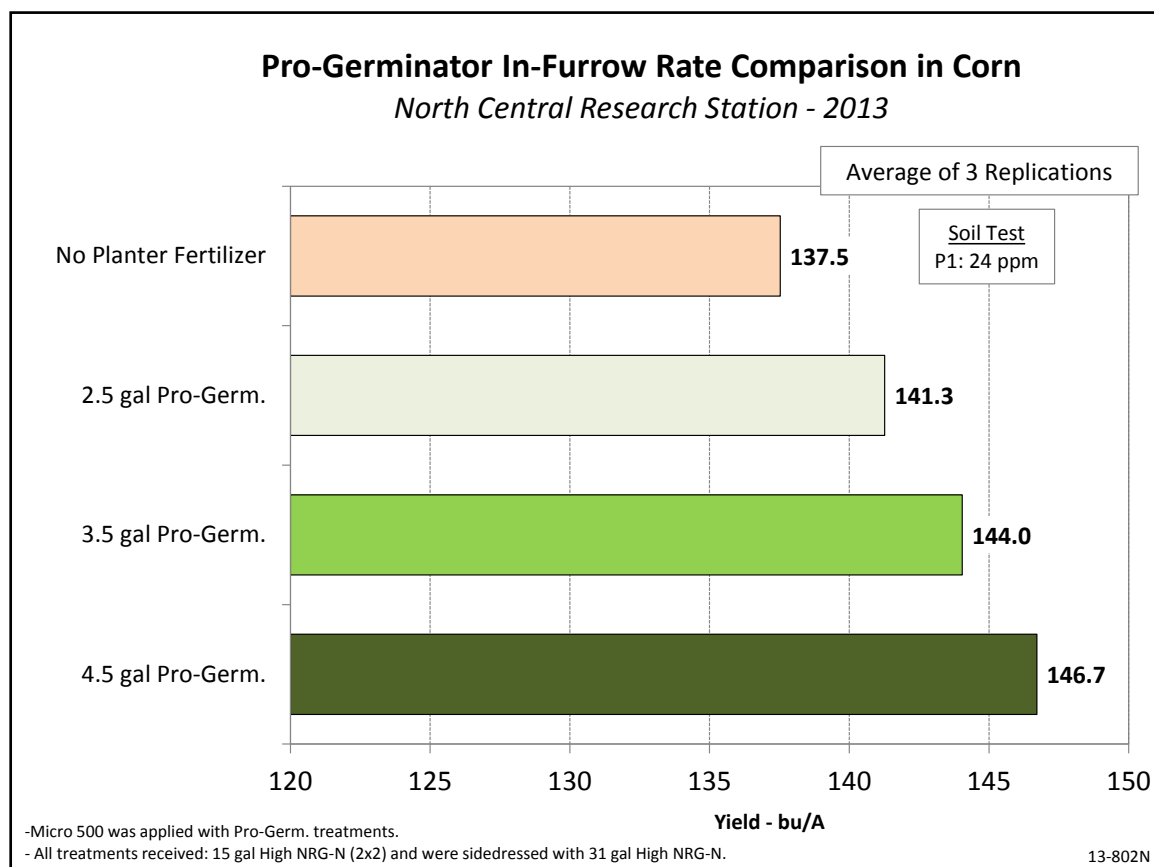
pH:	6.1
CEC:	10.8
% OM:	2.4
Bray P1:	24
K:	128
S:	10
% K:	3.0
% Mg:	18.5
% Ca:	63.7
%H:	14.4
% Na:	0.4
Zn:	0.9
Mn:	9
B:	0.4

Yield Goal:	175 bu
Target Fertilizer Rate:	192-20-27

Objective:

To compare in-furrow rates of Pro-Germinator in Corn.

Pro-Germinator is a highly effective nutrient product delivering both ortho and poly forms of phosphorus, giving plants an early and steady availability. An in-furrow band application provides nutrients where they are needed most. Pro-Germinator is balanced with nitrogen, potassium and micro nutrients for excellent performance. This experiment tested increasing rates of Pro-Germinator to see its results on corn yield. A no planter fertilizer treatment was used for comparison. Rates of 2.5, 3.5 and 4.5 gpa were used as treatments along with Micro 500 at a rate of 2 qt/A in each treatment. With the high soil test value of 24 ppm of P1, the recommendation for this would be 2.5 gpa in-furrow for a yield goal of 175 bu/A. Yield results appear in the chart below.



Conclusions:

- Growing conditions were very dry into the growing season as such, we did not reach our yield goal. But there was an increase in yield as the rate of Pro-Germinator was increased.
- All three rates of Pro-Germinator had a significant yield advantage over the no planter fertilizer treatment.
- Data confirms, along with past research, that even in higher phosphorus soils, there is a benefit of 3-4 gpa of Pro-Germinator planter applied.
- It is likely that the Pro-Germinator increased root volume that enabled better yield in the dry growing conditions.