



# AgroLiquid Phosphorus Fertilizer Timing in Corn ( 15-707 )

## Experiment Info:

Planted:	5/1/2015
Harvest:	10/26/2015
Yield Goal:	175 bu/A
Target Fert.:	193-65-0
Variety:	DKC 53-56 RIB
Population:	30,500
Row Width:	30"
Prev. Crop:	Sugarbeets
Plot Size:	15 X 265
Replications:	4
DBC (PPI)	4/29/2015
SD (V5)	6/3/2015
YD (V8)	6/7/2015

## Soil Test Values (ppm):

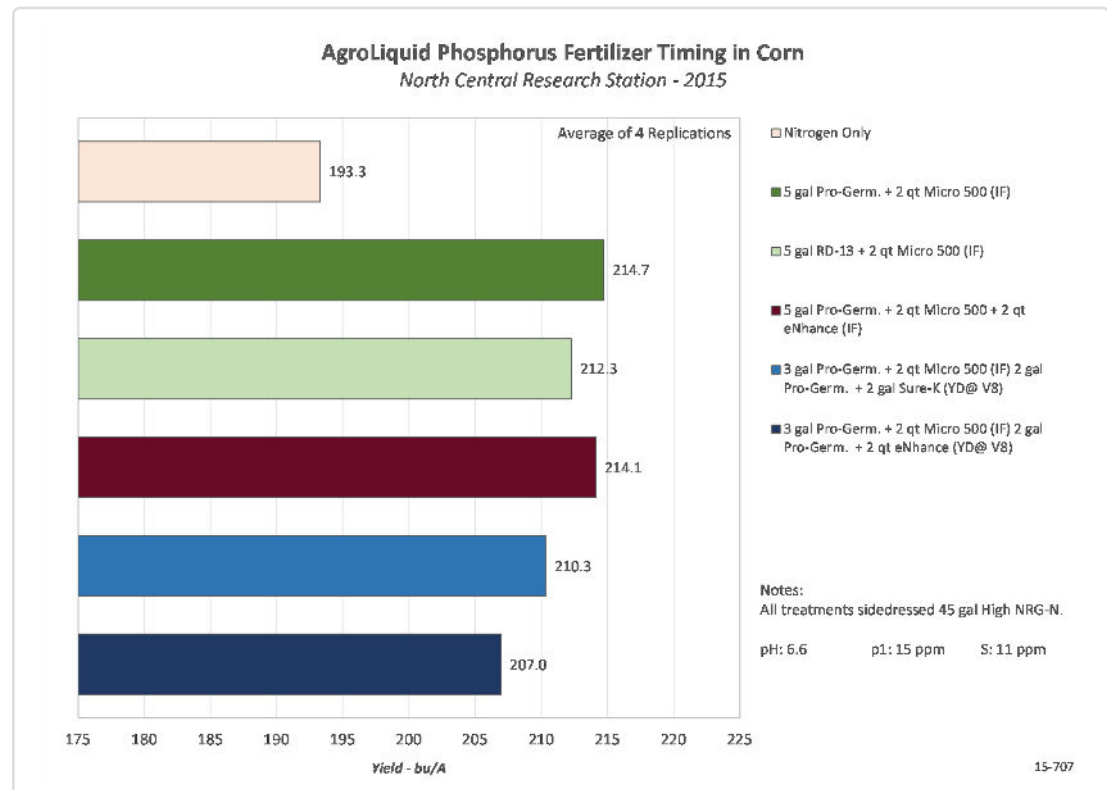
pH:	6.6
CEC:	16.8
%OM:	2.5
Bray P1:	15
Bicarb P:	-
K:	163
S:	11
%K:	2.5
%Mg:	19.6
%Ca:	71.7
%H:	5.8
Zn:	1.4
Mn:	7
B:	0.6

## Objective:

To compare AgroLiquid phosphorus products and their timing of application on corn yields.

A recommended rate of 5 gal/A of Pro-Germinator was compared to a 5 gal/A rate of experimental phosphorus product RD-13. Both of which were applied with the planter in-furrow. Another treatment added 2 qt/A of eNhance to the Pro-Germinator in-furrow treatment for a sulfur benefit.

With new equipment to split apply nutrients at various stages of crop growth, a second part of this experiment was designed to evaluate a split of the total recommended phosphorus program. The two lower bars on the chart below compared a split treatment of the phosphorus with 3 gal/A of Pro-Germinator in-furrow and 2 gal/A of Pro-Germinator + 2 gal/A of Sure-K at V8 with Y-DROPS or 2 gal/A of Pro-Germinator + 2 qt/A eNhance at V8 with Y-DROPS. All of the above treatments also included 2 qt/A of Micro 500 and were sidedressed with 45 gal/A of High NRG-N. Yields for all treatments explained appear in the chart below.



LSD(0.2)12.8, CV: 8.3%

## Conclusions:

- A complete recommended program of 5 gal/A of Pro-Germinator + 2 qt/A Micro 500 provided a significant 21.4 bu/A yield advantage over the nitrogen only treatment.
- The experimental phosphorus product RD-13 performed similarly to Pro-Germinator.
- Pro-Germinator provided more benefit when the full rate was applied in-furrow with the seed at planting versus a split application.
- Addition of Sure-K to the split application did not increase yield as the soil test K was high enough.