

Experiment Info:		

Planted:	5/7
Variety:	DKC53-78
Population:	31,500
Row Spacing:	30″
Previous Crop:	Corn
Plot Size:	15' x 265'
Replications:	4
Potash:	11/9/12
PRE:	5/8
Sidedress:	6/8
Harvested:	10/15

Soil Test Values (ppm):		
pH:	6.9	
CEC:	9.5	
% OM:	2.1	
Bray P1:	10	
к:	112	
S:	7	
% <b>K</b> :	3.0	
% Mg:	19.5	
% Ca:	77.2	
% <b>H</b> :	0	
% Na:	0.3	
Zn:	1.5	
Mn:	10	
B:	0.5	
Yield Goal:	175 bu	

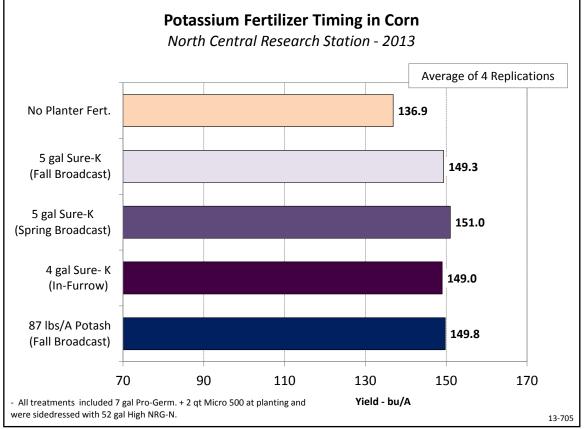
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Yield Goal:
175 bu

Target
192-90-48
```

## **Objective:**

To determine the optimum time for fertilizing a corn crop with potassium.

Agro-Culture Liquid Fertilizer's Sure-K is seed safe to allow application of the required nutrients in-furrow when planting. Sometimes the question of when to apply potassium, if not with the planter, comes up. In determining to answer that question, a broadcast rate of Sure-K was applied in the fall. A comparison of fall broadcasted Potash was also applied. Both treatments were incorporated into the soil by chisel plowing the previous corn crop residue. The spring broadcast treatment of Sure-K was made and incorporated with a soil finisher before planting. Yield results appear in the table below.



LSD (0.2): 13.3 CV: 11.8%

## **Conclusions:**

- The 4 gal/A rate of Sure-K gave nearly identical yields as the higher rate of Sure-K broadcasted or the dry Potash applications. The in-furrow placement puts nutrients where they are needed.
- Planter applied, fall or spring broadcast of potassium had no significant yield advantage to each other. The difference comes in the amount of nutrients applied to realize similar yields.
- In spite of these results, broadcast applications are not recommended at this time until more research is conducted.
- The no planter fertilizer treatment lacked the necessary nutrients needed to accomplish its yield potential.
- If Sure-K is going to be broadcast applied, a 20% increase in rate is needed to achieve comparable yields to planter applied rates.

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