



# Fertilizer Program Comparison - Corn

Hopkinsville, KY

## Experiment Info:

Planted:	5-2-2019
Harvest:	9-11-2019
Yield Goal:	
Target Fert.:	
Variety:	
Population:	
Row Width:	
Prev. Crop:	
Plot Size:	
Replications:	

## Objective:

Evaluate the value of a prescription fertility program.

In this experiment, 3 different programs were evaluated to compare input cost and yields so a grower could be confident that they would achieve the highest return on investment. One program was a dry only program utilizing DAP and MOP. The second program utilized a reduced rate of DAP and a standard AgroLiquid program. The final program was designed around utilizing a combination of dry and AgroLiquid products that would cost roughly the same as the all dry program but focus on addressing specific issues in the soil.

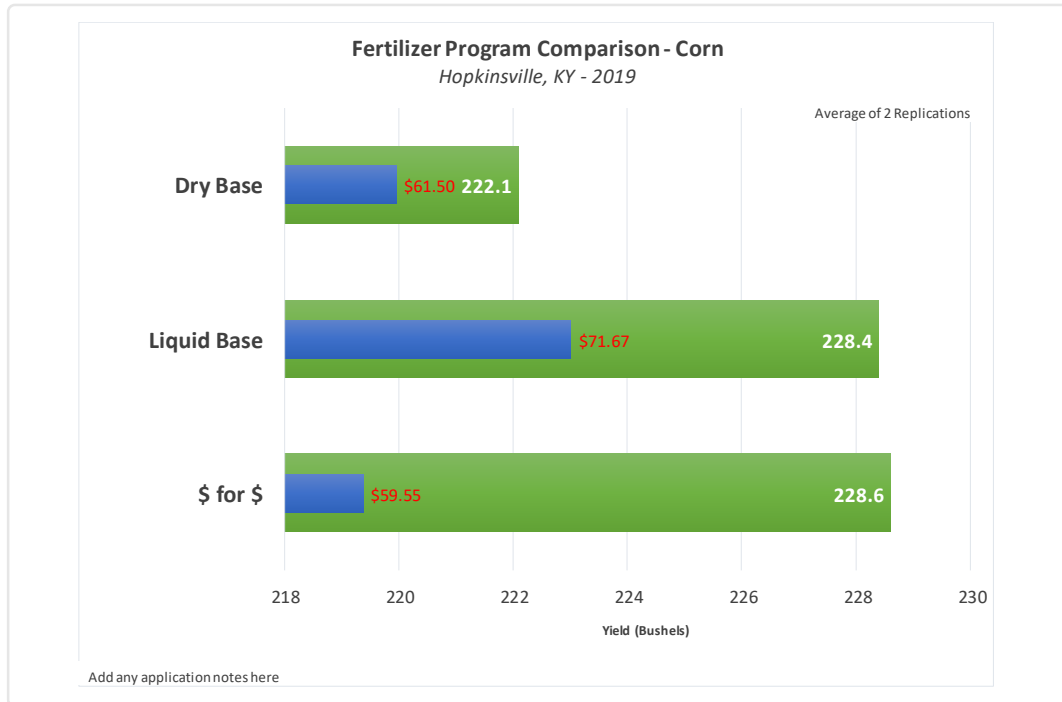
Dry Base: 150 lbs DAP + 150lbs MOP

Liquid Base: 85 lbs DAP; 3 gal ProGerm + 5 gal Kalibrate

\$ for \$: 85lbs DAP; 3 gal ProGerm + 1 gal Kalibrate + 2 qt Micro500 + 1 qt Fe

## Soil Test Values (ppm):

pH:	6.6
CEC:	11.1
%OM:	1.8
Bray P1:	29
Bicarb P:	
K:	226
S:	16
%K:	5.2
%Mg:	7.2
%Ca:	68.9
%H:	18.7
Zn:	3.1
Mn:	294
B:	0.4



## Conclusions:

- Treatments with banded in-furrow liquid P and K both out yielded dry broadcast application.
- The prescription program out yielded the dry base program by addressing other nutrient needs besides P and K.
- While yields between the liquid base program and prescription program were similar, the cost savings associated with a tailored program were significant.