



# In-Furrow Fertilizer Economic Challenge in Corn

*Chestnut Manor Farms: MD*

Experiment Info	
Planted:	
Harvested:	
Yield Goal:	250 bu
Variety:	
Pop.:	
Row Width:	
Prev. Crop:	
Plot Size:	
Reps:	

Soil Test (ppm)	
pH:	
CEC:	
%OM:	
Bray P1:	
Bicarb P:	
K:	
S:	
%K:	
%Mg:	
%Ca:	
%H:	
Zn:	
Mn:	
B:	

## Objective:

In 2025 we did economic challenge plots with XtremeAg to see how three growers from different parts of the country build a fertility program using a set application method and budget. In Maryland we compared in-Furrow applications on corn with a \$40/A fertility budget. Programs are below:

Temple (MD): 2 gal Pro-Germ., 1.2 gal Sure-K, 2 qt Micro 500, 1 pt Mn, 0.2 gal eNhanche  
 Chad (AL): 1 gal Pro-Germinator, 1 gal SpringuP, 1.75 Kalibrate, 2 qt Micro 500  
 Kevin (NC): 1 gal SpringuP, 2 gal Kalibrate, 1 pt accesS, 1 pt LiberateCa, 1 qt Mn, 1 qt Zn

### In-furrow Corn Economic Challenge Chestnut Mannor Farms, Maryland: 2025

Fertilizer Budget \$40/A	Treatment	Yield: bu/A	Profit	ROI
Fertilizer Timing In-furrow	Temple	255	\$1,056.50	27.4
	Chad	254	\$1,052.20	27.3
	Kevin	249	\$1,030.70	26.8

\*Profit and ROI is return over fertilizer program costs

## Conclusions:

- Temple's in-furrow program yielded the highest with 255 bu/A and was heavily focused on phosphorous with the addition of micronutrients. He saw a return of 27.4 for each fertilizer dollar invested.
- Chad's program yielded 1 bu/A less at 254 bu/A and similar fertilizer investment return. His program also focused on phosphorus in additional to potassium and sulfur.
- Kevin's trial was about 5 bu/A behind the others and hand similar focus on nutrients. Sometimes field variability plays a bigger part then individual nutrients.
- Key take home for all these trials is there are a number of ways to get to the same yield end point. Utilize good agronomist practices as well as efficient products to help get top yield.