



2x2 Fertilizer Economic Challenge in Soybeans

Matthews Family Farm, NC

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

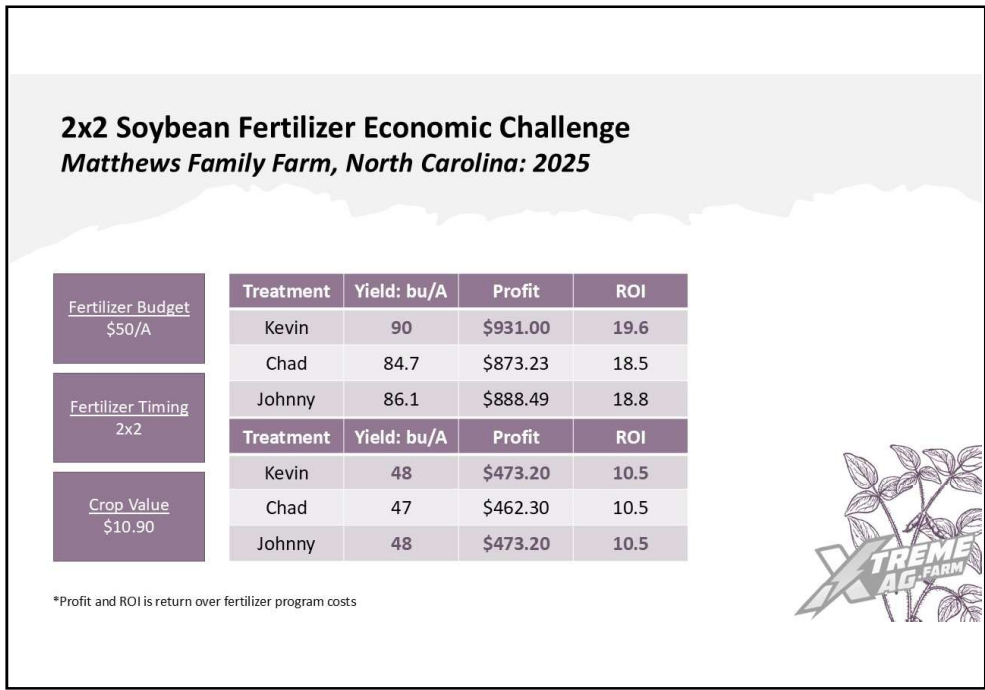
Objective:

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 North Carolina we compared 2x2 applications on soybeans with a \$50/A fertility budget. Programs are below:

- Kevin (NC): 3 gal Kapitalize, 2 gal Pro-Germinator, 56 oz Fulvic
- Chad (AL): 2.97 gal Kapitalize, 2 qt LibreateCa, 2 qt Micro 500
- Johnny (TN): 1 gal SpringuP, 2.9 gal CalSip, 2 qt Iron, 1 qt Boron

This trial had 2 replications, one in high yielding ground the other in lower producing double crop.

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



Conclusions:

- There was about a 5 bu/A yield swing between top and bottom yields in the high yield beans.
- All double crop treatments yielded nearly the same. It is very hard to influence yield on double crop soybeans.
- Kevin did earn top yield in the high yielding beans with 90 bu/A and a fertilizer ROI of 19.6. His 2x2 program focused on potassium, calcium phosphorus with a fulvic acid.
- Johnny's program focused heavy on sulfur and calcium with some micronutrients as well as orthophosphate and produced a yield of 86.1 bu/A.
- Chad had the lowest yield with 84.7 bu/A and focused primarily on calcium and potassium.
- 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.