



2x2 Fertilizer Economic Challenge in Corn

Garrett Land and Cattle: Iowa

Experiment Info	
Planted:	
Harvested:	
Yield Goal:	200 bu
Variety:	
Pop.:	
Row Width:	
Prev. Crop:	
Plot Size:	
Reps:	

Soil Test (ppm)	
pH:	6.1
CEC:	21.0
%OM:	3.2
Bray P1:	69.2
Bicarb P:	
K:	227
S:	26
%K:	2.9
%Mg:	18.1
%Ca:	58.1
%H:	19.8
Zn:	4.2
Mn:	143.9
B:	0.3

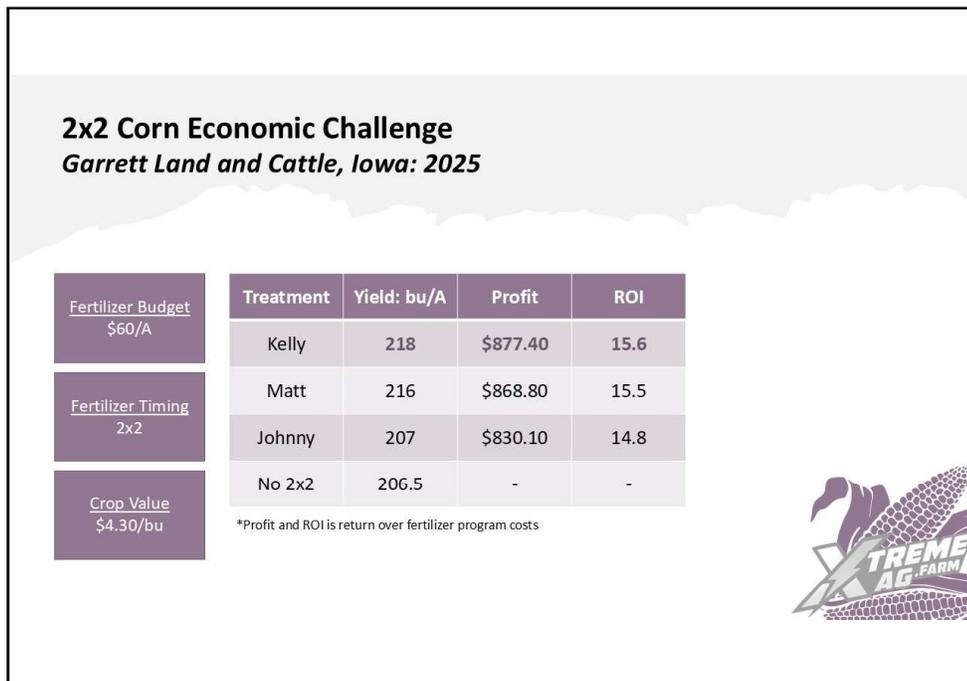
Objective:

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 Iowa we compared 2x2 applications on corn with a \$60/A fertility budget. Programs are below:

Kelly (IA): 2 gal AccesS, 1 pt B, 12 oz Cu, 2 qt Fulvic, 1 pt Fe, 2 qt LiberateCa, 4 oz Mo, 1 qt Zn, 0.2 gal eNhance (Total 3.6 gal/A)

Matt (AR): 1 gal accesS, 1 qt B, 2 qt eNhance, 1 gal Kalibrate, 2 qt LiberateCa, 1 qt Micro 500, 1 qt Zn, 1.25 gal Pro-Germinator (Total 4.9 gal/A)

Johnny (TN): 2 gal AccesS, 2 gal Kalibrate, 2 gal NResponse, 2 gal SpringuP, 48 oz Zinc (8.4 gal/A)



Conclusions:

- All treatments increased corn yield over the no 2x2 program.
- Kelly focused on all of the details adding a number of micronutrients to his fertility program. This approached paid off earning him high yield at 218 bu/A and best return on fertilizer dollar investment.
- Matt finished in a close second with 216 bu/A, although not quiet to the level of Kelly he focused on multiple nutrients included sulfur, potassium, calcium and micros.
- Johnny applied the high rate/A at 8.4 gal however, did not see significant yield increase over the no 2x2.
- 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.