Corn Planting Rate

Trial ID: 2022-CRNP04 — R.M. of Grey

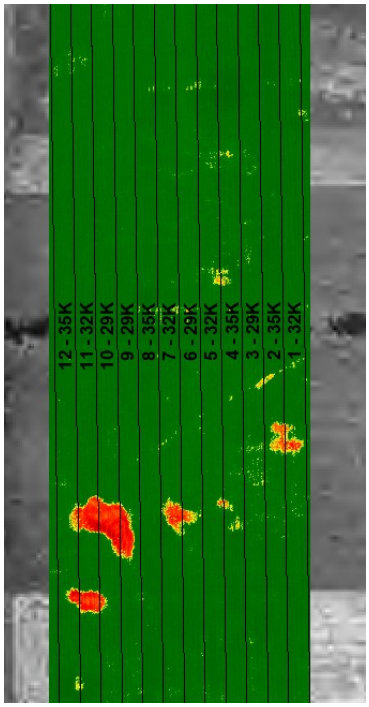
Objective: The purpose of this project is to quantify the agronomic and economic impacts of reducing and increasing normal planting rate in corn.

Summary: There was no significant yield difference between planting rates of 29,000, 32,000 and 35,000 plants/ac. As a result, there was a decrease in profit equivalent to the increase in seed cost for the higher planting rates.

Trial Information

Treatment	29k vs. 32k vs. 35k
Soil Texture	Fine Loams
Previous Crop	Soybeans
Tillage	Strip Till
Planting Equipment	60’ Planter
Planting Date	May 24
Variety	TH6278 VT2P
Germination	99%
Row Spacing	30”
Harvest Date	November 02

NDVI Imagery August 13



Precipitation† (mm)

	May	June	July	Aug	Total
Rainfall	85	58	61	88	**292**
Normal	53	74	60	82	**269**
% Normal	162%	79%	100%	108%	**109%**

†Growing season precipitation (mm) - May 01—Aug 31

Plant Stand (plants/ac)

Planting Rate	29k	32k	35k
V2	29,500	31,400	32,100

Overall Yield & Economics

	Mean (bu/ac)	Cost†	Change in Profit/ac††
29k	144.8	$90/ac	+$9/ac
32k	145.8	$99/ac	$0/ac
35k	136.3	$109/ac	-$10/ac
P-Value	0.6099	**Economics: There is an increase in profit for the lower planting rate due to the lower cost of seed/acre.**	
CV	9.99%		
Significance	No		

†Based on MB Agriculture 2022 Cost of Production Guidelines ($99.20/ac)
††Change in profit is calculated as the difference in cost between planting rate treatments.

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