



Corn Planting Rate

Trial ID: 2022-CRNP05 — R.M. of Dufferin

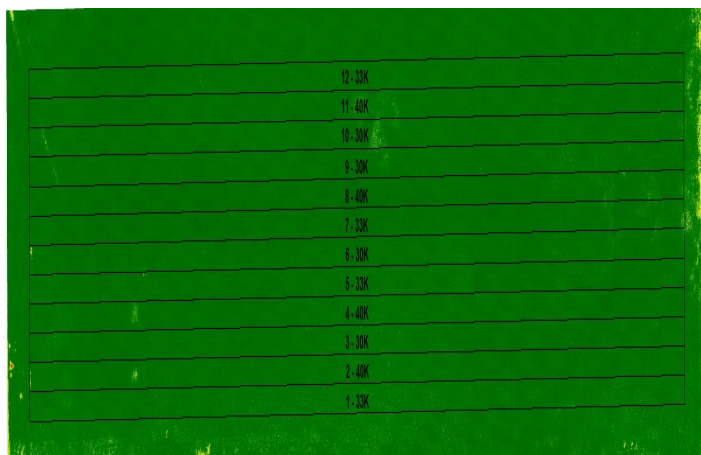
Objective: The purpose of this project is to quantify the agronomic and economic impacts of reducing and increasing normal planting rate in corn.

Summary: There was no significant yield difference between planting rates of 30,000, 33,000 and 40,000 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	30k vs. 33k vs. 40k
Soil Texture	Fine Loams
Previous Crop	Potato
Tillage	Minimal
Planting Equipment	40' Planter
Planting Date	May 24
Variety	A4939G2 R9B
Germination	96%
Row Spacing	20"
Harvest Date	October 27

NDVI Imagery August 13



Precipitation[†] (mm)

	May	June	July	Aug	Total
Rainfall	111	39	67	75	291
Normal	54	69	64	93	279
% Normal	206%	56%	104%	80%	104%

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

Plant Stand (plants/ac)

Planting Rate	30k	33k	40k
V2	32,500 ^B	31,600 ^B	38,000 ^A

Overall Yield & Economics

	Mean (bu/ac)	Cost [†]	Change in Profit/ac ^{††}
30k	167.8	\$93/ac	+\$9/ac
33k	163.7	\$102/ac	\$0/ac
40k	160.9	\$124/ac	-\$22/ac
P-Value	0.2710	Economics: There is an increase in profit for the lower planting rate due to the lower cost of seed/acre.	
CV	3.31%		
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.



MCA would like to thank Tone Ag Consulting Ltd. for the research support for this trial.



**MANITOBA
CROP
ALLIANCE**

Phone: 204-745-6661
Website: mbcropalliance.ca
Email: hello@mbcropalliance.ca