



## Corn Planting Rate

**Trial ID: 2022-CRNP02 — R.M. of North Norfolk**

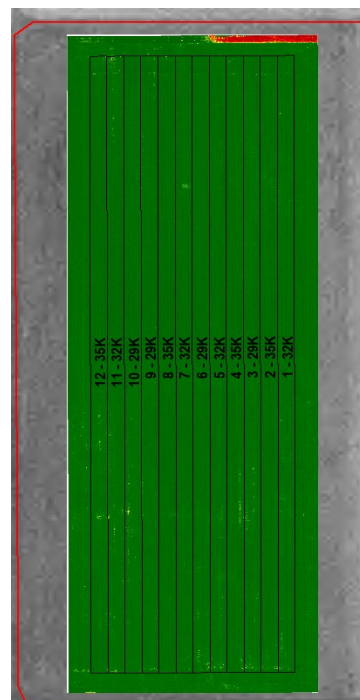
**Objective:** The purpose of this project is to quantify the agronomic and economic impacts of reducing and increasing normal planting rate in corn.

**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	Course Loams
Previous Crop	Wheat
Tillage	Strip Till
Planting Equipment	60' Planter
Planting Date	May 17
Variety	P7527AM
Germination	94%
Row Spacing	30"
Harvest Date	October 14

### NDVI Imagery August 13



### Precipitation† (mm)

	May	June	July	Aug	Total
Rainfall	140	140	67	103	450
Normal	50	71	65	94	279
% Normal	282%	198%	102%	110%	161%

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

### Plant Stand (plants/ac)

Planting Rate	29k	32k	35k
V2	26,700 <sup>B</sup>	28,900 <sup>AB</sup>	30,800 <sup>A</sup>

### Overall Yield & Economics

	Mean (bu/ac)	Cost†	Change in Profit/ac**
29k	153.4	\$90/ac	+\$9/ac
32k	158.1	\$99/ac	\$0/ac
35k	160.4	\$109/ac	-\$10/ac
P-Value	0.3775	<b>Economics: There is an increase in profit for the lower planting rate due to the lower cost of seed/acre.</b>	
CV	4.23%		
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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