



## Corn Planting Rate

**Trial ID: 2022-CRNP07 — R.M. of Hanover**

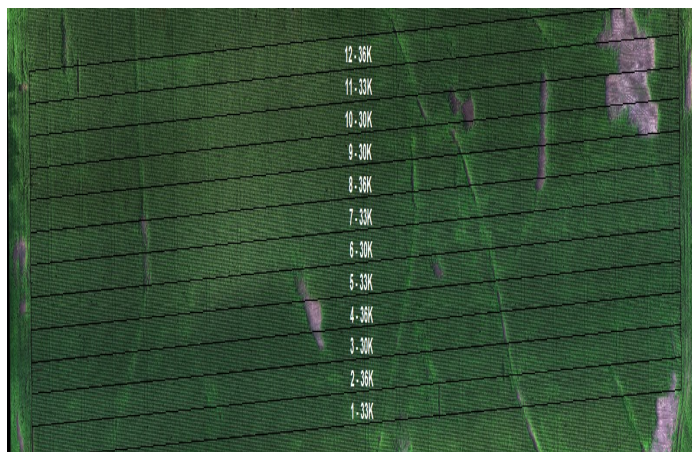
**Objective:** The purpose of this project is to quantify the agronomic and economic impacts of reducing and increasing normal planting rate in corn.

**Summary:** There was no significant yield difference between planting rates of 30,000, 33,000 and 36,000 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

<b>Treatment</b>	30k vs. 33k vs. 36k
<b>Soil Texture</b>	Clay Loams
<b>Previous Crop</b>	Corn
<b>Tillage</b>	Conventional
<b>Planting Equipment</b>	40' Planter
<b>Planting Date</b>	May 26
<b>Variety</b>	P7861YHR
<b>Germination</b>	94%
<b>Row Spacing</b>	30"
<b>Harvest Date</b>	November 02

### RGB Imagery August 13



### Precipitation<sup>†</sup> (mm)

	May	June	July	Aug	Total
<b>Rainfall</b>	115	107	130	138	<b>490</b>
<b>Normal</b>	58	77	80	97	<b>312</b>
<b>% Normal</b>	199%	139%	162%	142%	<b>157%</b>

<sup>†</sup>Growing season precipitation (mm) - May 01—Aug 31

### Plant Stand (plants/ac)

Planting Rate	30k	33k	36k
<b>V2</b>	29,250	33,000	29,000

### Overall Yield & Economics

	Mean (bu/ac)	Cost <sup>†</sup>	Change in Profit/ac <sup>††</sup>
<b>30k</b>	144.4	\$93/ac	+\$9/ac
<b>33k</b>	144.1	\$102/ac	\$0/ac
<b>36k</b>	142.6	\$112/ac	-\$10/ac
<b>P-Value</b>	0.6280	<b>Economics: There is an increase in profit for the lower planting rate due to the lower cost of seed/acre.</b>	
<b>CV</b>	1.93%		
<b>Significance</b>	<b>No</b>		

<sup>†</sup>Based on MB Agriculture 2022 Cost of Production Guidelines (\$99.20/ac)

<sup>††</sup>Change in profit is calculated as the difference in cost between planting rate treatments.



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