



## Sunflower Planting Rate

**Trial ID: 2023-SFLP06 — R.M. of Tache**

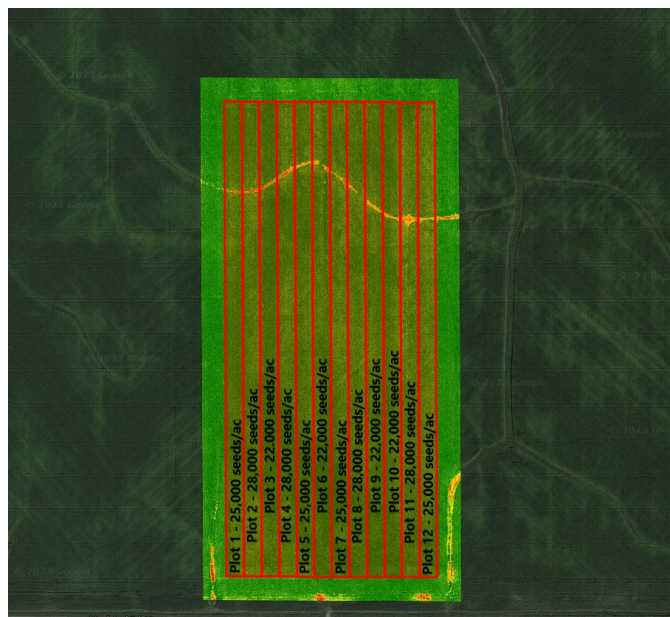
**Objective:** The purpose of this project is to quantify the agronomic and economic impacts of reducing and increasing normal planting rate in oil-type sunflower.

**Summary:** There was no significant yield difference between planting rates of 22,000, 25,000 and 28,000 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	22k vs. 25k vs. 28k
Soil Texture	Clay
Previous Crop	Corn
Tillage	Conventional Tillage
Planting Equipment	60' Planter
Planting Date	May 23
Variety	P63ME80 (oil-type)
Germination	95%
Row Spacing	20"
Harvest Date	October 25

### NDVI Imagery August 10



### Sunflower Response<sup>†</sup>

	Plant Stand (plants/ac)	Oil (%)	TWT (lbs/bu)	Sizing 8 Slot
22k	21,250 <sup>B</sup>	48.5	30.9	75
25k	23,917 <sup>A</sup>	47.3	30.9	69
28k	24,917 <sup>A</sup>	48.7	30.8	75

<sup>†</sup>Analysis performed by Scoular

### Precipitation<sup>†</sup> (mm)

	May	June	July	Aug	Cumulative
Rainfall	22	43	64	49	179
Normal	83	107	98	83	371
% Normal	26%	40%	66%	60%	48%

<sup>†</sup>Growing season precipitation (mm)

### Overall Yield & Economics

	Mean (lbs/ac)	Cost <sup>†</sup>	Change in Profit/ac <sup>††</sup>
22k	2110	\$50.60/ac	+ \$6.90/ac
25k	2216	\$57.50/ac	\$0/ac
28k	2410	\$64.40/ac	- \$6.90/ac
P-Value	0.3251	<b>Economics: There is an increase in profit for the lower planting rate due to the lower cost of seed/acre.</b>	
CV	11.62%		
Significance	No		

<sup>†</sup>Based on MB Agriculture 2023 Cost of Production Guidelines (\$46.00/ac)

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



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