



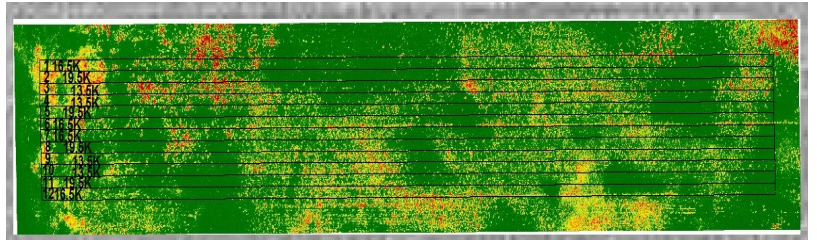
## Sunflower Planting Rate

Trial ID: 2021-SFLP07 — 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 confection sunflowers.

TRIAL INFORMATION	
Location	Bagot
Previous Crop	Soybeans
Soil Texture	Fine Loams
Tillage	Strip Till
Planting Date	May 14, 2021
Fertilizer (N-P-K-S)	161N 50P 150K
Variety	6946 DMR
Row Spacing	22"
Planting Rate (seeds/ac)	13.5K, 16.5K & 19.5K
Harvest Date	October 12, 2021

## FIELD IMAGE



PLANT STAND @ V2			
Planting Rate (seeds/ac)	13,500	16,500	19,500
Plants/acre	10,500 <sup>A</sup>	11,000 <sup>AB</sup>	15,500 <sup>B</sup>

PRECIPITATION†					
	May	June	July	Aug	Total
Rainfall	52	69	5	97	222
Normal	50	76	64	78	268

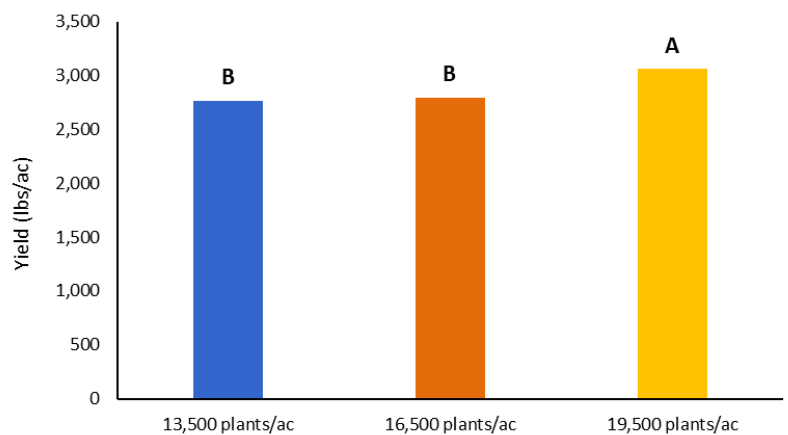
†Growing season precipitation (mm) - May 01—Aug 31

OVERALL YIELD	
	Mean (lbs/ac)
13,500 plants/ac	2,768 <sup>B</sup>
16,500 plants/ac	2,796 <sup>B</sup>
19,500 plants/ac	3,058 <sup>A</sup>
P-Value	0.0405
CV	4.66%
Significance	Yes

**Summary:** There was a significant difference in yield of 250+ lbs/acre between the 19,500 seeds/acre vs. the 13,500 and 16,500 seeds/acre planting rates. There was a significant difference in plant stands between the three planting rates. Rainfall was below average throughout the growing season.

SUNFLOWER QUALITY			
	13,500 plants/ac	16,500 plants/ac	19,500 plants/ac
% Dockage	9.0	5.0	4.6
% Moisture	11.5	12.4	10.8
TWT (lbs/bu)	26	26	26
Grade	1	1	1
Seed Sizing			
>24/64	13	30	10
>22/64	40	41	37
>20/64	35	19	36
<20/64	12	10	17

## YIELD BY TREATMENT



MCA would like to thank Tone Ag Consulting Ltd. for the research support and Scoular for the sunflower quality analysis for this trial.



**MANITOBA  
CROP  
ALLIANCE**

Phone: 204-745-6661  
Website: [mbcropalliance.ca](http://mbcropalliance.ca)  
Email: [hello@mbcropalliance.ca](mailto:hello@mbcropalliance.ca)