



Sunflower Planting Rate

Trial ID: 2021-SFLP06 — R.M. of Emerson-Franklin

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	Ridgeville
Previous Crop	Wheat
Soil Texture	Clay
Tillage	Conventional Tillage
Planting Date	May 13, 2021
Fertilizer (N-P-K-S)	128N 32P 5S 1%Zn
Variety	6946 DMR
Row Spacing	20"
Planting Rate (seeds/ac)	15K, 18K & 21K
Harvest Date	October 19, 2021

PLANT STAND @ V2

Planting Rate (seeds/ac)	15,000	18,000	21,000
Plants/acre	14,000 ^A	16,500 ^{AB}	18,000 ^B

PRECIPITATION†

	May	June	July	Aug	Total
Rainfall	21	26	43	70	159
Normal	56	82	81	76	294

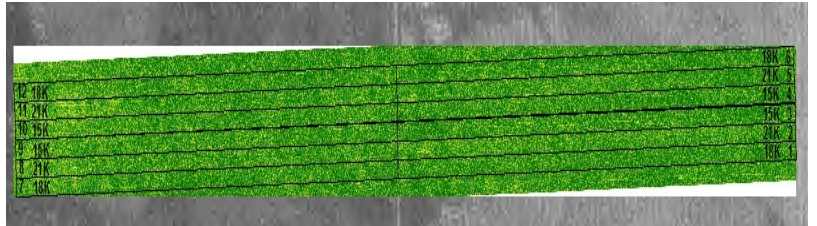
†Growing season precipitation (mm) - May 01—Aug 31

OVERALL YIELD

	Mean (lbs/ac)
15,000 plants/ac	3,156 ^A
18,000 plants/ac	2,912 ^A
21,000 plants/ac	3,039 ^A
P-Value	0.6089
CV	7.09%
Significance	No

Summary: There was no significant difference in yield between the 15,000, 18,000 and 21,000 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.

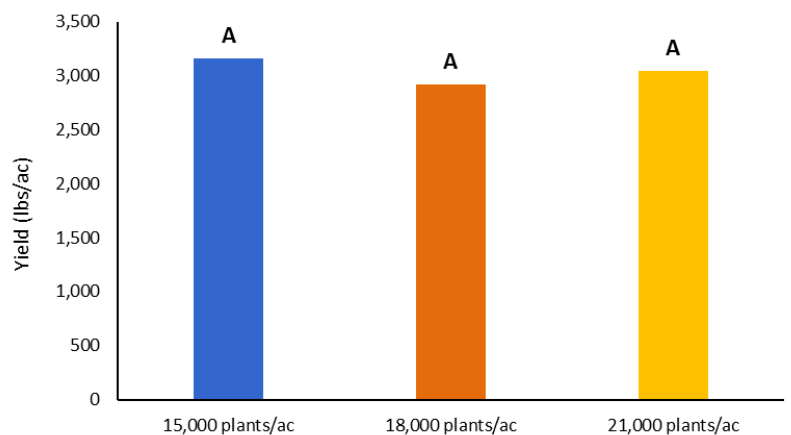
FIELD IMAGE



SUNFLOWER QUALITY

	15,000 plants/ac	18,000 plants/ac	21,000 plants/ac
% Dockage	5.0	13.0	9.0
% Moisture	14.6	13.6	11.5
TWT (lbs/bu)	25	25	26
Grade	1	1	1
Seed Sizing			
>24/64	21	13	7
>22/64	43	36	39
>20/64	24	35	38
<20/64	12	16	16

YIELD BY TREATMENT



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



**MANITOBA
CROP
ALLIANCE**

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