



Sunflower Planting Rate

Trial ID: 2021-SFLP02 — R.M. of Brokenhead

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

TRIAL INFORMATION	
Location	Beausejour
Previous Crop	Soybeans
Soil Texture	Clay
Tillage	Conventional Tillage
Planting Date	May 06, 2021
Fertilizer (N-P-K-S)	100N 30P
Variety	N4HM354
Row Spacing	20"
Planting Rate (seeds/ac)	20K, 23K & 26K
Harvest Date	October 12, 2021



PLANT STAND @ V2			
Planting Rate (seeds/ac)	20,000	23,000	26,000
Plants/acre	21,250 ^A	23,250 ^A	23,500 ^A

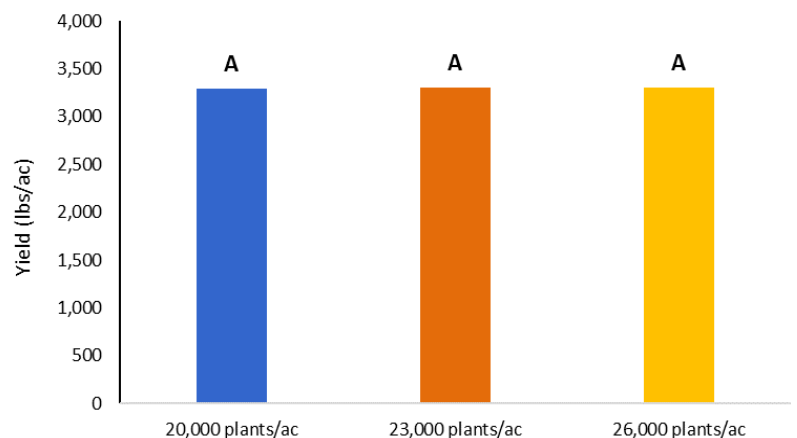
	SUNFLOWER QUALITY		
	20,000 plants/ac	23,000 plants/ac	26,000 plants/ac
% Dockage	2.0	2.5	2.8
% Moisture	11.1	11.1	11.2
TWT (lbs/bu)	34	34	35
Grade	1	1	1
Sizing 8 Slot	58	50	41

	OVERALL YIELD	
	Mean (lbs/ac)	
20,000 plants/ac	3,293 ^A	
23,000 plants/ac	3,305 ^A	
26,000 plants/ac	3,305 ^A	
P-Value	0.9463	
CV	1.75%	
Significance	No	

	PRECIPITATION†				
	May	June	July	Aug	Total
Rainfall	52	26	24	89	190
Normal	51	85	71	73	280

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

YIELD BY TREATMENT



Summary: There was no significant difference in yield or plant stands at V2 between the 20,000, 23,000 and 26,000 seeds/acre planting rates. Rainfall was below average throughout the growing season.



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



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