



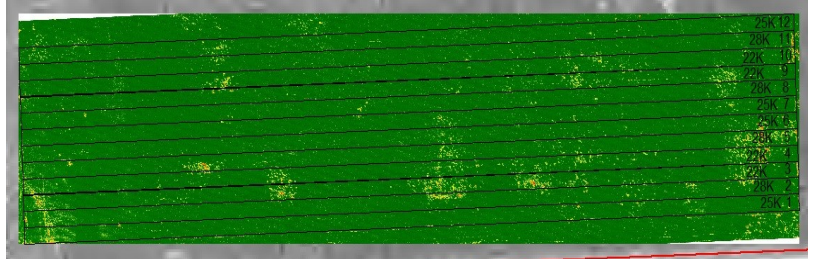
## Sunflower Planting Rate

Trial ID: 2021-SFLP03 — R.M. of Stuartburn

**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	Pansy
Previous Crop	Soybeans
Soil Texture	Coarse Loam
Tillage	Minimal Tillage
Planting Date	May 01, 2021
Fertilizer (N-P-K-S)	70N 72K
Variety	P63ME80
Row Spacing	30"
Planting Rate (seeds/ac)	22K, 25K & 28K
Harvest Date	October 20, 2021

## FIELD IMAGE



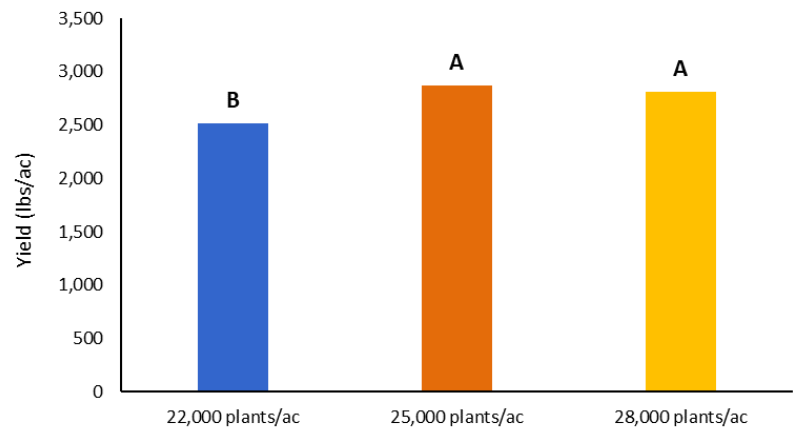
PLANT STAND @ V2			
Planting Rate (seeds/ac)	22,000	25,000	28,000
Plants/acre	17,500 <sup>A</sup>	19,750 <sup>B</sup>	19,250 <sup>AB</sup>

PRECIPITATION†					
	May	June	July	Aug	Total
Rainfall	74	60	47	69	249
Normal	62	93	92	81	328

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

	SUNFLOWER QUALITY		
	22,000 plants/ac	25,000 plants/ac	28,000 plants/ac
% Dockage	3.0	2.0	2.0
% Moisture	9.6	9.5	9.5
TWT (lbs/bu)	33	34	34
Grade	1	1	1
Sizing 8 Slot	91	91	87

## YIELD BY TREATMENT



OVERALL YIELD	
	Mean (lbs/ac)
22,000 plants/ac	2,516 <sup>B</sup>
25,000 plants/ac	2,870 <sup>A</sup>
28,000 plants/ac	2,812 <sup>A</sup>
P-Value	0.0141
CV	4.53%
Significance	Yes

**Summary:** There was a significant difference in yield of 300+ lbs/acre between the 25,000 and 28,000 seeds/acre vs. the 22,000 seeds/acre planting rates. There was a significant difference in plant stands between the three planting rates. There was some seed that blew and was stranded at the soil surface, resulting in lower than anticipated plant stands. Rainfall was below average throughout the growing season.



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