



# Sunflower Planting Rate Trials

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

**Summary:** One site-year showed a significant yield difference between the three planting rates.

Summary of 2023 sunflower planting rate trial yield results by site-year

Trial ID	Rural Municipality	Row Spacing	Planting Rate			Plant Stand @ Midseason			Yield			CV	P-Value	Statistically Significant @ 95%
			Low	Med	High	Low	Med	High	Low	Med	High			
		inch	'000/ac			'000/ac			lbs/ac			%		
SFLP01*	Rhineland	30	13.2	16	19.2	16.4	17.2	21.2	1683	1701	1791	6.63	0.4136	No
SFLP02	St. Francois Xavier	30	19	22	25	19. <sup>C</sup>	21.3 <sup>B</sup>	23.2 <sup>A</sup>	1615	1636	1765	4.41	0.9890	No
SFLP03	Brokenhead	20	20	23	26	19.4 <sup>B</sup>	21.5 <sup>A</sup>	23.3 <sup>A</sup>	1945	2023	1948	4.34	0.3735	No
SFLP04	Emerson-Franklin	20	19	22	25	17.3 <sup>B</sup>	18.6 <sup>B</sup>	22 <sup>A</sup>	2682	2774	2769	4.42	0.5236	No
SFLP05	St. Andrews	30	19	22	25	13.3	13.9	15.4	1460	1539	1505	4.52	0.0080	<b>Yes</b>
SFLP06	Tache	20	22	25	28	21.3 <sup>B</sup>	23.9 <sup>A</sup>	24.9 <sup>A</sup>	2110	2216	2410	11.62	0.3251	No
SFLP07	Stuartburn	30	22	25	28	19.2	22.9	23.9	1600	1474	1451	7.99	0.3585	No
SFLP08	Tache	22	22.3	24.7	27.8	21.8	23.7	26	2970	3061	3013	2.08	0.3127	No

\*Confection-type sunflower



**MANITOBA  
CROP  
ALLIANCE**

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