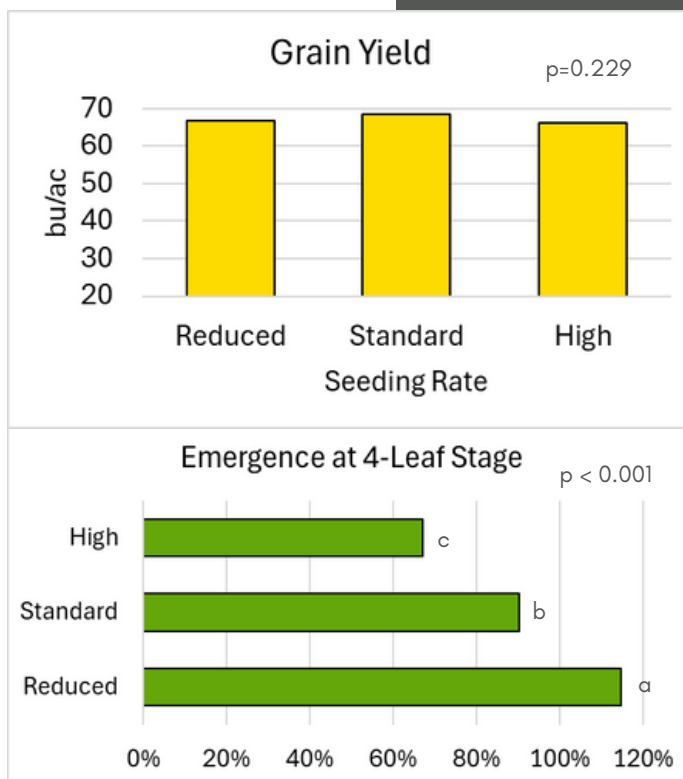


Seeding Rate Trial

SR_20

Site Info

Trial ID: SR_20
Rural Municipality: Thompson
Seeding Date: May 12, 2025
Seeding Equipment: John Deere 1895 Disc Drill
Variety: L356PC
Seed Treatment: Helix Vibrance and Buteo Start
TKW: 5.1 g/1000 seeds
Row Spacing: 7.5 inch
Harvest Date: Sept 9, 2025



Within each data type, treatments with different lowercase letters are significantly different at 95% confidence level ($p < 0.05$). Data types with no lowercase letters listed indicate an insignificant treatment effect.

Results Summary

Plant Establishment: Plant counts at the 4-leaf stage were not significantly different across seeding rate treatments, however the reduced seeding rate treatment had significantly greater plant counts at maturity relative to the standard and high seeding rate treatments. Emergence% was significantly different across all three treatments; reduced seeding rate exhibited the greatest emergence, while high seeding rate exhibited the poorest emergence.

Grain Yield: Seeding rate had no significant influence on grain yield in this trial.

Profitability: The reduced seeding rate treatment lowered seed costs while maintaining statistically similar yield to the farm standard rate, returning \$19/ac more than the standard. The high seeding rate treatment raised costs without significantly increasing yield, returning \$38/ac less than the standard.

Treatment	Seeding Rate		Plant Counts (ft ²)	
	Lbs./ac	Seeds/ac	4-leaf	Maturity
Reduced Seeding Rate (75%)	3.45	306,843	8.1	5.6 ^a
Standard Seeding Rate (100%)	4.6	409,124	8.5	4.9 ^b
High Seeding Rate (125%)	6.9	613,686	9.5	5.0 ^{ab}
	<i>p-value</i>		0.281	0.034

Seeding Rate Trial SR_20 Continued



SR_20 Weather

	Apr	May	June	July	Aug	Sept	Total
Rainfall (mm)	23.8	36.4	33.7	39	46.1	70.3	249.3
Avg Daily Temp (°C)	4.66	14.18	17.77	18.99	18.85	15.71	

SR_20 Economic Analysis

Seeding Rate	Mean yield (bu/ac)	Seed Cost ¹	Change in Profit from Farm Standard ²
3.45 lb/ac	66.71	\$57/ac	\$19/ac
4.6 lb/ac	68.54	\$76/ac	-
6.9 lb/ac	66.11	\$114/ac	-\$38/ac
P-value	0.229		
CV	3.04		

¹ Based on 2025 MB Cost of Production: estimated cost of seed ~ \$16.50 / lb

² Change in profit is calculated as the difference in grain sales income (based on estimated canola sale price of \$13.25/bu) and treatment costs, relative to the standard farm practice. Yields were not significantly different in this trial, therefore there are no differences in grain sales income.



Agronomic Support for this Trial
Provided by: