

Seeding Rate Trial SR_19

Site Info

Trial ID: SR_19
Rural Municipality: Alexander
Seeding Date: May 13, 2025
Seeding Equipment: Horsch Avatar
 Disc Drill
Variety: L356PC
Seed Treatment: Buteo
 Start/Lumiderm
TKW: 4.5 g/1000 seeds
Row Spacing: 10 inch
Harvest Date: Sept 2, 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 and maturity were not significantly different across seeding rate treatments.

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 \$16/ac more than the standard. The high seeding rate treatment raised costs without significantly increasing yield, returning \$17/ac less than the standard.

Treatment	Seeding Rate		Plant Counts (ft ²)	
	Lbs./ac	Seeds/ac	4-leaf	Maturity
Reduced Seeding Rate (75%)	3.2	322,554	4.4	2.8
Standard Seeding Rate (100%)	4.2	423,352	4.1	3.3
High Seeding Rate (125%)	5.2	524,150	5.9	4
	<i>p-value</i>		0.059	0.084

Seeding Rate Trial SR_19 Continued



SR_19 Weather

	Apr	May	June	July	Aug	Sept	Total
Rainfall (mm)	15.3	12.7	47.8	40.7	61.2	21	198.7
Avg Daily Temp (°C)	3.23	13.42	16.57	18.81	18.73	15.74	

SR_19 Economic Analysis

Seeding Rate	Mean yield (bu/ac)	Seed Cost ¹	Change in Profit from Farm Standard ²
3.2 lb/ac	59.06	\$53/ac	\$16/ac
4.2 lb/ac	60.59	\$69/ac	-
5.2 lb/ac	59.65	\$86/ac	-\$17/ac
P-value	0.453		
CV	3.71		

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: