

# Canola Seeding Rate – SR\_11

**Research Question:** Can Manitoba canola farms reduce their seeding rates without sacrificing yield to increase return on investment?

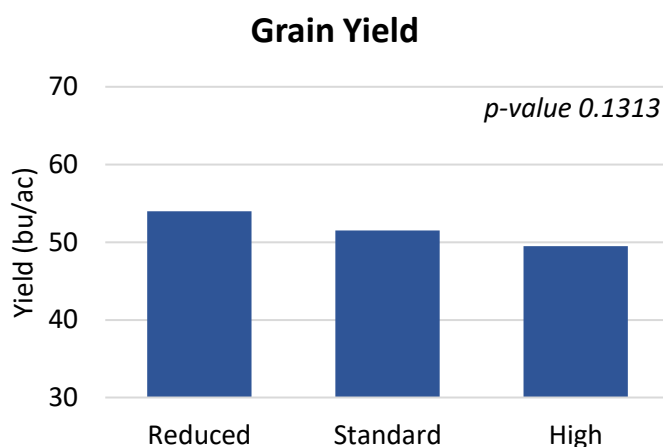
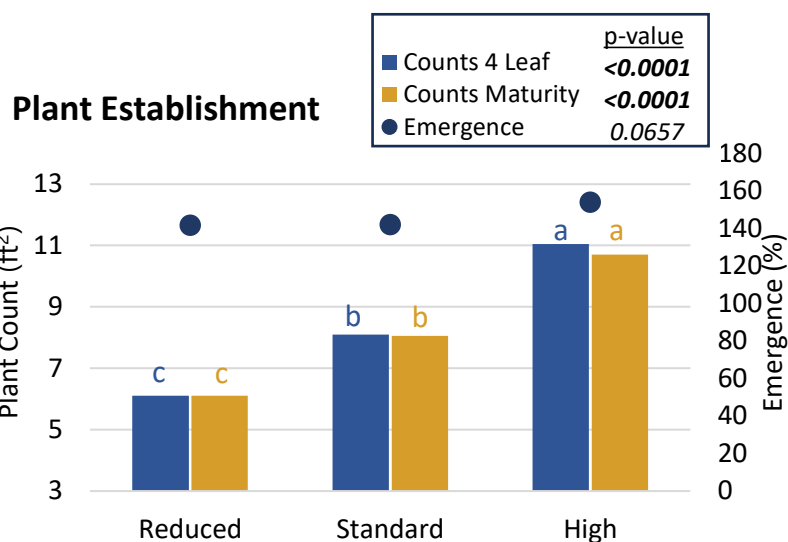
## Site Information

R.M.	Rhineland
Seeding Date:	May 22, 2023
Seeding Equipment:	Horsch Maestro
Variety:	L350PC
Seed Treatment:	Helix Vibrance Buteo
TKW:	4.35 g / 1000 seeds
Row Spacing:	20"
Harvest Date:	Sept 12, 2023

Treatment	lbs./ac	Seeds/ac
1 Reduced Seeding Rate (75%)	1.8	187,500
2 Standard Seeding Rate (100%)	2.4	250,000
3 High Seeding Rate (125%)	3.0	312,500

## Summary

- **Plant Establishment:** The high seeding rate resulted in the highest plant population at both 4-leaf and maturity, with the reduced rate treatment being the lowest. Emergence % was not significantly influenced in this trial.
- **Grain Yield:** There was no significant difference in grain yield between all seeding rates tested.
- **Economic Considerations:** The reduced seeding rate treatment resulted in the greatest return on investment in this trial. With no effect on yield the adoption of a lower seeding rate could reduce seed costs by 25%.
- 2024 SRP is approximately \$1000/bag of canola seed, indicating a potential cost reduction of \$250/bag.
- Additional considerations: risks associated with low plant populations outside of the scope of this trial include reduced competitiveness against field pests.



The absence of lowercase letters for any data type indicates no significant differences between treatments.

	Apr	May	June	July	Aug	Total
Rainfall (mm)	22	12	24	32	27	<b>117</b>
Avg Daily Temp (C)	0.4	16	21	19	17	

