Canola Seeding Rate – SR_07

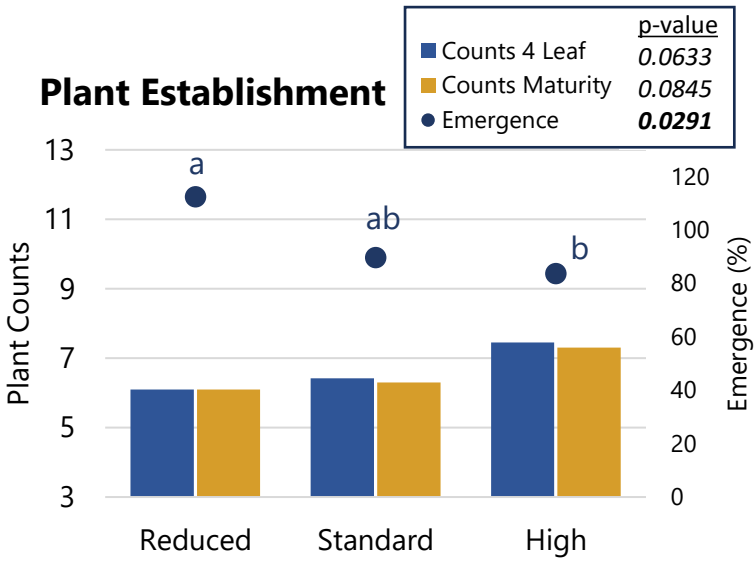
Research Question: Can Manitoba canola farms reduce their seeding rates without sacrificing yield to increase return on investment?

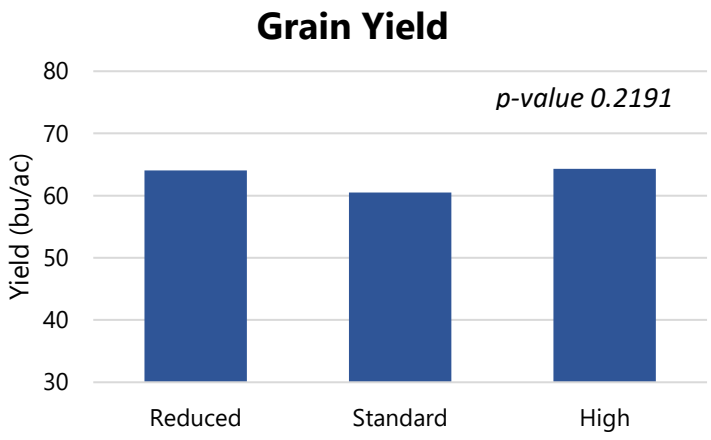
Site Information	
R.M.	Rhineland
Seeding Date:	May 16, 2023
Seeding Equipment:	John Deere Planter
Variety:	L357
Seed Treatment:	Buteo
TKW:	4.8 g/1000 seeds
Row Spacing:	10"
Harvest Date:	September 1, 2023

Treatment		lbs./ac	Seeds/ac
1	Reduced Seeding Rate (75%)	2.5	347,438
2	Standard Seeding Rate (100%)	3.3	463,251
3	Hight Seeding Rate (125%)	4.1	579,063

Summary

- Plant Establishment: There was no significant difference between any of the seeding rate treatments for plant counts at 4 leaf or maturity. There was a significant increase in emergence % with the reduced seeding rate compared to the high seeding rate.
- 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)	30	19	61	18	30	**159**
Avg Daily Temp (C)	0.8	14	19	17	18	

Agronomic support for this trial provided by:

ANTARA AGRONOMY

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