Canola Seeding Rate – SR_10

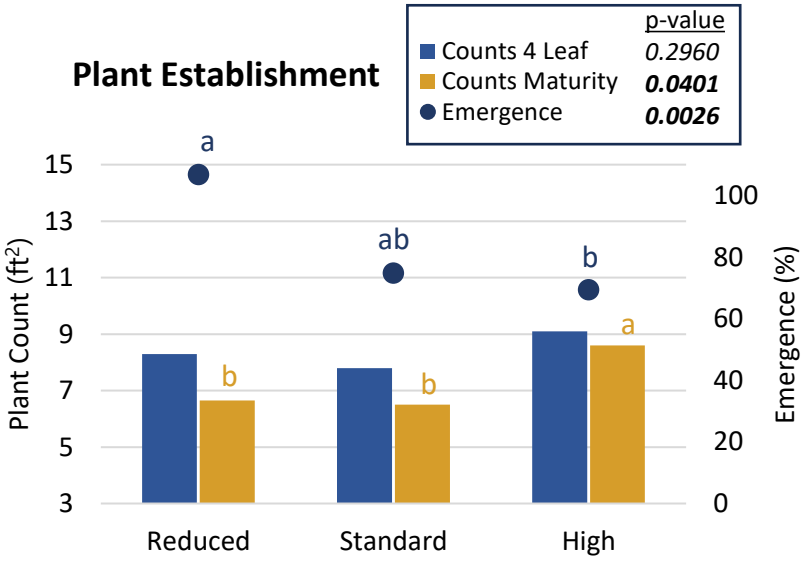
Research Question: Can Manitoba canola farms reduce their seeding rates without sacrificing yield to increase return on investment?

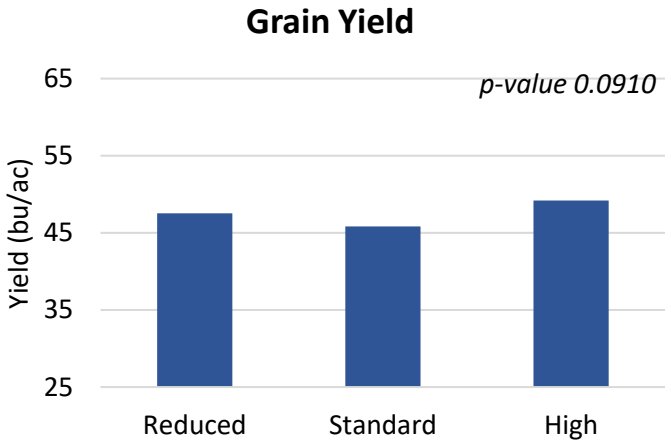
Site Information	
R.M.	Brenda-Waskada
Seeding Date:	May 28, 2023
Seeding Equipment:	Vaderstad Seed Hawk Hoe Drill
Variety:	L340
Seed Treatment:	Lumiderm
TKW:	5 g/1000 seeds
Row Spacing:	12”
Harvest Date:	Sept 16, 2023

Treatment		lbs./ac	Seeds/ac
1	Reduced Seeding Rate (75%)	3	272,160
2	Standard Seeding Rate (100%)	4	362,880
3	Hight Seeding Rate (125%)	5	453,600

Summary

- Plant Establishment: There was no significant difference between plant counts at the 4-leaf stage, however at maturity the high seeding rate had significantly more plants than other treatments. Indicating that there was likely some late emergence of plants in that treatment, Emergence was highest at the reduced seeding rate and lowest for 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)	28	64	114	20	23	**248**
% of Normal Rainfall	73	120	141	42	58	
Avg Daily Temp (C)	0.7	15	20	18	16	

Agronomic support for this trial provided by:

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