

# Canola Seeding Rate – SR\_12

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

## Site Information

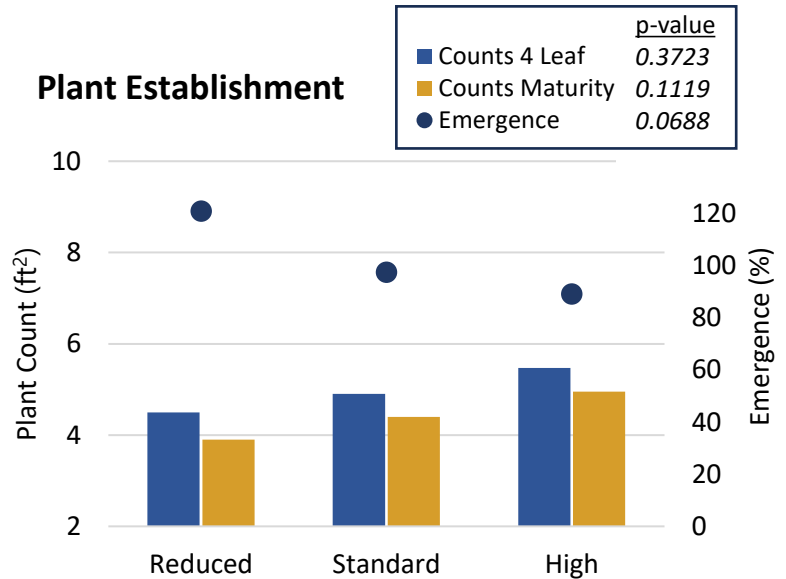
R.M.	Brokenhead
Seeding Date:	May 20, 2023
Seeding Equipment:	Air Planter
Variety:	L356PC
Seed Treatment:	Lumiderm
TKW:	5.6 g / 1000 seeds
Row Spacing:	10"
Harvest Date:	Aug 26, 2023

Treatment	lbs./ac	Seeds/ac
1 Reduced Seeding Rate (75%)	2	162,000
2 Standard Seeding Rate (100%)	2.7	218,700
3 High Seeding Rate (125%)	3.3	267,300

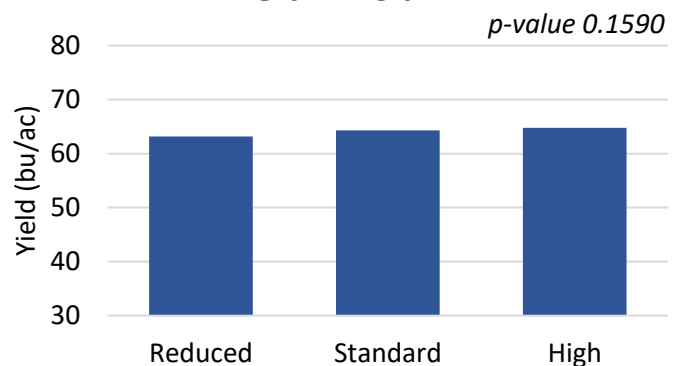
## Summary

- **Plant Establishment:** There was no significant difference between any of the seeding rate treatments for plant counts at 4 leaf or maturity. Emergence was highest at the reduced seeding rate and lowest for the high seeding rate, though insignificant.
- **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.

## Plant Establishment



## Grain Yield



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

	Apr	May	June	July	Aug	Total
Rainfall (mm)	17	10	51	74	73	225
Avg Daily Temp (C)	0.9	16	20	17	18	

