

Canola Seeding Rate – SR_09

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

Site Information

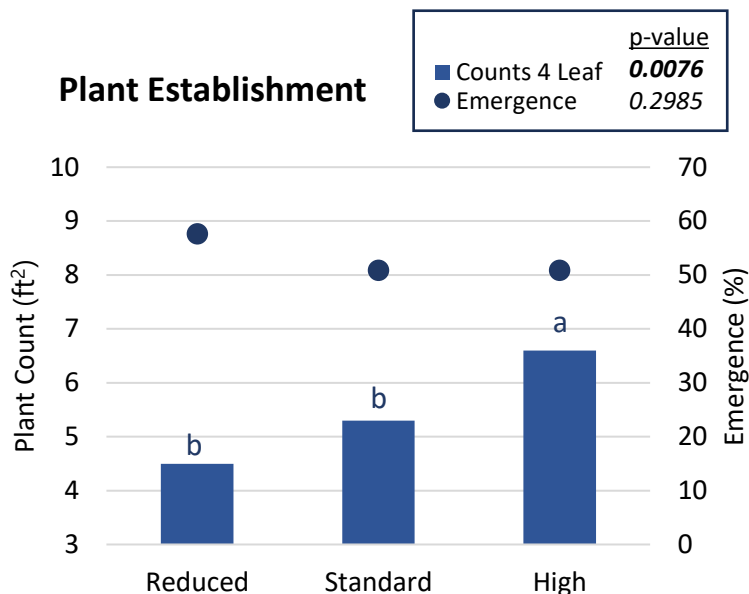
R.M.	Morris
Seeding Date:	May 15, 2023
Seeding Equipment:	Disc Drill
Variety:	L345PC
Seed Treatment:	Helix Vibrance
TKW:	4 g/1000 seeds
Row Spacing:	10"
Harvest Date:	Sept 11, 2023

Treatment	lbs./ac	Seeds/ac
1 Reduced Seeding Rate (75%)	3	340,200
2 Standard Seeding Rate (100%)	4	453,600
3 High Seeding Rate (125%)	5	567,000

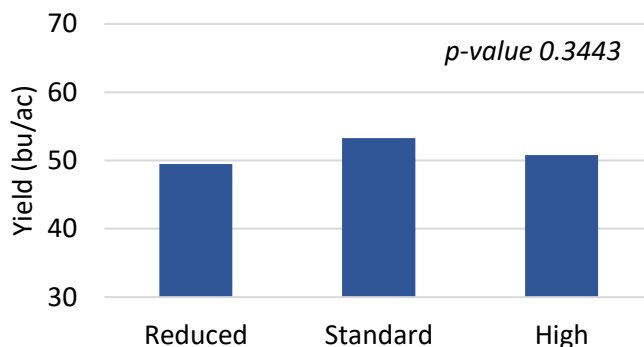
Summary

- **Plant Establishment:** The high seeding rate treatment had significantly more plants at the 4-leaf stage compared to the reduced rate and standard rate treatments. There was no significant differences between emergence which ranged between 50-60% for all treatments.
- **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)	16.4	17.3	15.8	61.3	26.8	138
Avg Daily Temp (C)	0.2	16.2	21	18.1	18.9	

Agronomic support for this trial provided by:

