

Canola Seeding Rate – SR_08

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

Site Information

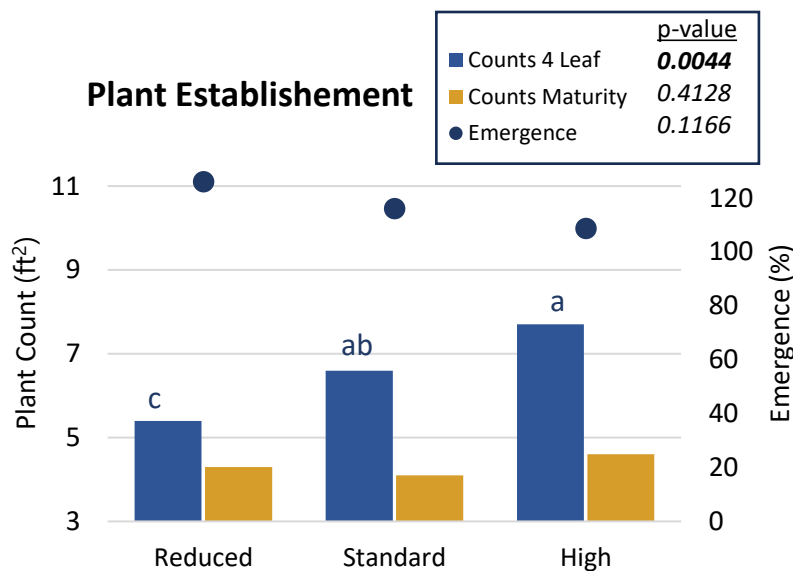
R.M.	Grey
Seeding Date:	May 13, 2023
Seeding Equipment:	Planter
Variety:	DKLL 83 SC
Seed Treatment:	Prosper Evergol
TKW:	5.5 g/1000 seeds
Row Spacing:	15"
Harvest Date:	Aug 25, 2023

Treatment	lbs./ac	Seeds/ac
1 Reduced Seeding Rate (75%)	2.25	185,563
2 Standard Seeding Rate (100%)	3.0	247,418
3 Hight Seeding Rate (125%)	3.75	309,272

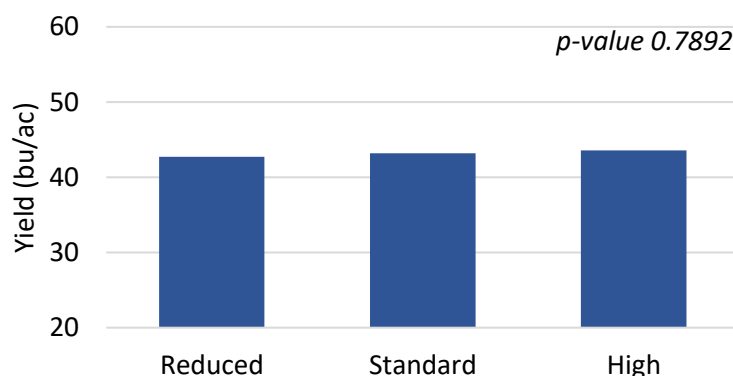
Summary

- **Plant Establishment:** High seeding rate significantly increase the number of plants present at the 4-leaf stage compared to the other treatments (no difference in emergence % at 4 leaf). There were no differences between treatments for plant counts at maturity with all seeding rates resulting in a final plant population of 4 – 4.5 plants/ft².
- **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)	31.1	17.4	25.1	23.9	59.1	157
Avg Daily Temp (C)	0.13	16	21	18	15	

Agronomic support for this trial provided by:

