



Flax Seeding Rate

Trial ID: 2022-FP05 — R.M. of Bifrost-Riverton

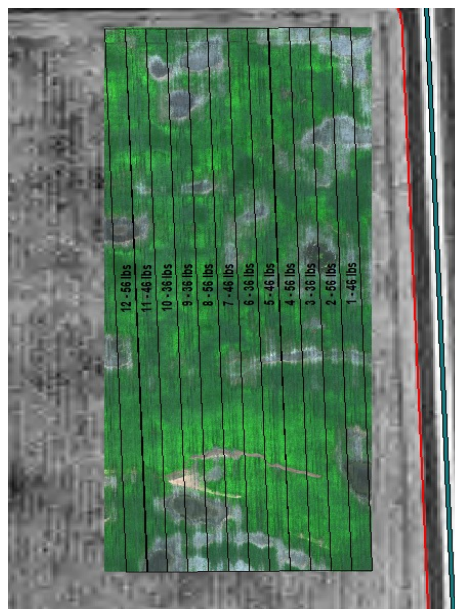
Objective: The purpose of this project is to quantify the agronomic and economic impacts of reducing and increasing normal seeding rate in flax.

Summary: There was no significant yield difference between planting rates of 36, 46 and 56 lbs/ac. As a result, there was a decrease in profit equivalent to the increase in seed cost for the higher seeding rates.

Trial Information

Treatment	36 lbs vs. 46 lbs vs. 56 lbs
Soil Texture	Clay
Previous Crop	Soybeans
Tillage	Zero Till
Seeding Equipment	60' Disc Drill
Seeding Date	June 11
Variety	CDC Neela
Germination	97%
Row Spacing	10"
Harvest Date	October 22

RGB Imagery August 14



Flax Response

	Plants/ft ²	TWT (kg/hL)	Grade
36 lbs	42 ^A	69	2.0
46 lbs	65 ^B	68	2.0
56 lbs	67 ^B	68	2.0

Precipitation[†] (mm)

	May	June	July	Aug	Total
Rainfall	112	114	136	92	455
Normal	45	65	66	105	281
% Normal	251%	175%	206%	88%	162%

[†]Growing season precipitation (mm) - May 01—Aug 31

Overall Yield & Economics

	Mean (bu/ac)*	Cost [†]	Change in Profit/ac ^{††}
36 lbs	7.0	\$42/ac	+\$11/ac
46 lbs	6.0	\$53/ac	\$0/ac
56 lbs	6.1	\$65/ac	-\$12/ac
P-Value	0.2460	Economics: There is an increase in profit for the lower seeding rate due to the lower cost of seed/acre.	
CV	10.69%		
Significance	No		

[†]Based on MB Agriculture 2022 Cost of Production Guidelines (\$64.96/ac)

^{††}Change in profit is calculated as the difference in cost between seeding rate treatments.

*Yield was severely reduced due to a frost event mid September before reaching maturity



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