



Flax Seeding Rate

Trial ID: 2023-FP01 — R.M. of St. Clements

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 40, 50 and 60 lbs/ac. As a result, there was a decrease in profit equivalent to the increase in seed cost for the higher seeding rates.

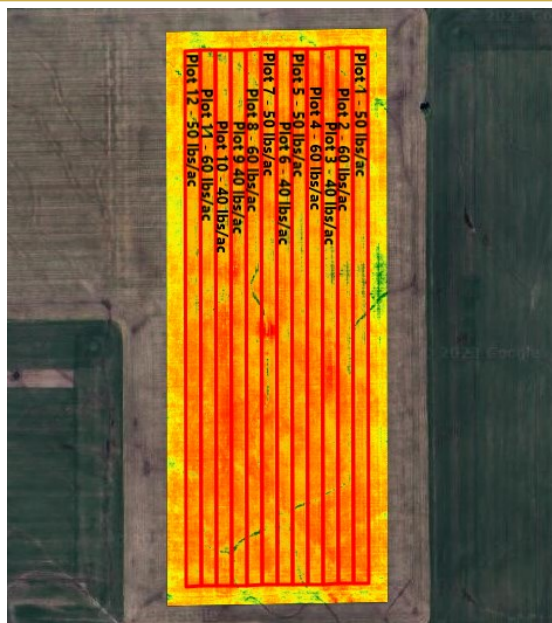
Trial Information

44Treatment	40 lbs vs. 50 lbs vs. 60 lbs
Soil Texture	Fine Loams
Previous Crop	Soybeans
Tillage	Zero Till
Seeding Equipment	65' Disc Drill
Seeding Date	May 14
Variety	WestLin 72
Germination	87%
Row Spacing	10"
Harvest Date	September 28

Flax Response

	Plants/ft ²	TWT (kg/hL)	Grade
40 lbs	44 ^A	71	1
50 lbs	53 ^B	71	1
60 lbs	59 ^C	72	1

NDVI Imagery August 14



Precipitation[†] (mm)

	May	June	July	Aug	Cumulative
Rainfall	11	73	31	27	142
Normal	58	88	87	76	309
% Normal	19%	83%	35%	36%	46%

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

Overall Yield & Economics

	Mean (bu/ac)	Cost [†]	Change in Profit/ac ^{††}
40 lbs	26.3	\$46.40/ac	+ \$11.60/ac
50 lbs	25.0	\$58.00/ac	\$0/ac
60 lbs	24.5	\$69.60/ac	- \$11.60/ac
P-Value	0.5968	Economics: There is an increase in profit for the lower seeding rate due to the lower cost of seed/acre.	
CV	9.44%		
Significance	No		

[†]Based on MB Agriculture 2023 Cost of Production Guidelines (\$64.96/ac)

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



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