



Flax Seeding Rate

Trial ID: 2023-FP04 — R.M. of Dauphin

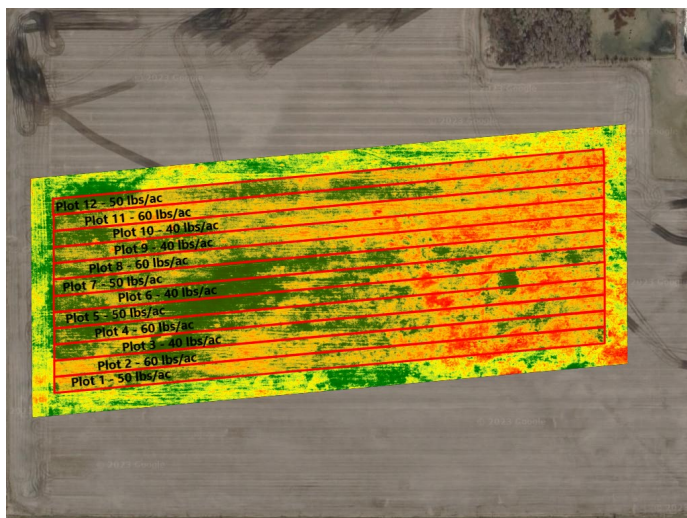
Objective: The purpose of this project is to quantify the agronomic and economic impacts of reducing and increasing normal seeding rate in flax.

Summary: There was no significant yield difference between seeding 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

Treatment	40 lbs vs. 50 lbs vs. 60 lbs
Soil Texture	Clay
Previous Crop	Soybeans
Tillage	Zero Till
Seeding Equipment	60' Hoe Drill
Seeding Date	May 19
Variety	CDC Sorrel
Germination	91%
Row Spacing	10"
Harvest Date	September 20

NDVI Imagery August 07



Flax Response

	Plants/ft ²	TWT (kg/hL)	Grade
40 lbs	26 ^A	70	1
50 lbs	33 ^B	70	1
60 lbs	40 ^C	70	1

Precipitation[†] (mm)

	May	June	July	Aug	Cumulative
Rainfall	42	70	15	73	200
Normal	55	82	73	61	271
% Normal	77%	85%	21%	119%	74%

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

Overall Yield & Economics

	Mean (bu/ac)	Cost [†]	Change in Profit/ac ^{††}
40 lbs	24.2	\$46.40/ac	+ \$11.60/ac
50 lbs	24.9	\$58.00/ac	\$0/ac
60 lbs	25.3	\$69.60/ac	- \$11.60/ac
P-Value	0.7947	Economics: There is an increase in profit for the lower seeding rate due to the lower cost of seed/acre.	
CV	9.22%		
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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