



Flax Seeding Rate

Trial ID: 2023-FP07 — R.M. of Wallace-Woodworth

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 35, 56 and 70 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	35 lbs vs. 56 lbs vs. 70 lbs
Soil Texture	Clay Loams
Previous Crop	n/a—too wet to seed
Tillage	Minimal Tillage
Seeding Equipment	60' Hoe Drill
Seeding Date	May 22
Variety	CDC Rowland
Germination	88%
Row Spacing	12"
Harvest Date	October 16

NDVI Imagery August 08



Flax Response

	Plants/ft ²	TWT (kg/hL)	Grade
35 lbs	30 ^A	70	1
56 lbs	46 ^B	70	1
70 lbs	56 ^C	68	1

Precipitation[†] (mm)

	May	June	July	Aug	Cumulative
Rainfall	10	64	13	25	112
Normal	58	76	78	71	283
% Normal	18%	84%	16%	36%	40%

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

Overall Yield & Economics

	Mean (bu/ac)	Cost [†]	Change in Profit/ac ^{††}
35 lbs	46.9	\$40.60/ac	+ \$24.36/ac
56 lbs	44.9	\$64.96/ac	\$0/ac
70 lbs	46.7	\$81.20/ac	- \$16.24/ac
P-Value	0.1240	Economics: There is an increase in profit for the lower seeding rate due to the lower cost of seed/acre.	
CV	2.78%		
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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