Flax Seeding Rate

Trial ID: 2023-FP06 — R.M. of Morris

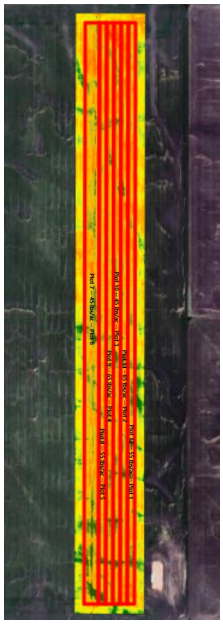
Objective: The purpose of this project is to quantify the agronomic and economic impacts of reducing and increasing normal seeding rate in flax.

Summary: There was no significant yield difference between planting rates of 45, 55 and 65 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	45 lbs vs. 55 lbs vs. 65 lbs
Soil Texture	Clay
Previous Crop	Wheat
Tillage	Zero Till
Seeding Equipment	60’ Disc Drill
Seeding Date	May 22
Variety	CDC Glas
Germination	83%
Row Spacing	10”
Harvest Date	September 18

NDVI Imagery August 09



Flax Response

	Plants/ft²	TWT (kg/hL)	Grade
45 lbs	47[A]	71	1
55 lbs	56[B]	70	1
65 lbs	67[C]	72	1

Precipitation† (mm)

	May	June	July	Aug	Cumulative
Rainfall	10	22	23	36	**91**
Normal	54	106	83	75	**318**
% Normal	18%	21%	28%	48%	**29%**

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

Overall Yield & Economics

	Mean (bu/ac)	Cost†	Change in Profit/ac††
45 lbs	24.1	$52.20/ac	+ $11.60/ac
55 lbs	24.5	$63.80/ac	$0/ac
65 lbs	23.9	$75.40/ac	- $11.60/ac
P-Value	0.7937	**Economics: There is an increase in profit for the lower seeding rate due to the lower cost of seed/acre.**	
CV	5.38%		
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.

MCA would like to thank Tone Ag Consulting Ltd. for the research support and SGS Canada Inc. for quality analysis for this trial.

MANITOBA CROP ALLIANCE
Phone: 204-745-6661
Website: mbcropalliance.ca
Email: hello@mbcropalliance.ca