Flax Seeding Rate

Trial ID: 2023-FP03 — R.M. of Rockwood

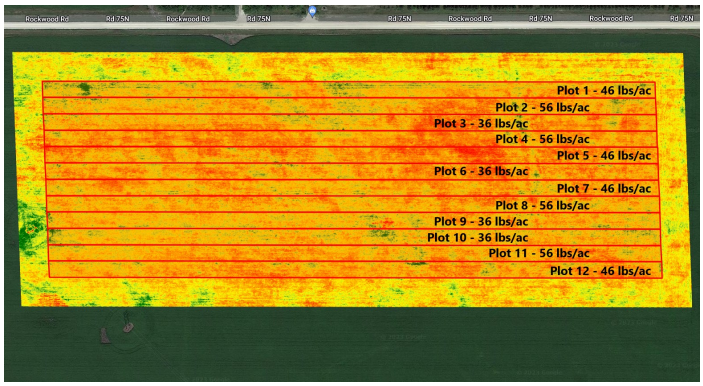
Objective: The purpose of this project is to quantify the agronomic and economic impacts of reducing and increasing normal seeding rate in flax.

Summary: There was no significant yield difference between seeding rates of 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 Loams
Previous Crop	Soybeans
Tillage	Conventional Tillage
Seeding Equipment	47’ Air Drill
Seeding Date	May 16
Variety	AAC Marvelous
Germination	92%
Row Spacing	10”
Harvest Date	September 12

NDVI Imagery August 13



Flax Response

	Plants/ft²	TWT (kg/hL)	Grade
36 lbs	49[A]	70	1
46 lbs	60[B]	70	1
56 lbs	64[B]	70	1

Precipitation† (mm)

	May	June	July	Aug	Cumulative
Rainfall	12	55	39	49	**154**
Normal	56	92	82	75	**305**
% Normal	21%	59%	48%	65%	**51%**

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

Overall Yield & Economics

	Mean (bu/ac)	Cost†	Change in Profit/ac††
36 lbs	20.9	$41.76/ac	+ $11.60/ac
46 lbs	21.3	$53.36/ac	$0/ac
56 lbs	20.3	$64.96/ac	- $11.60/ac
P-Value	0.3604	**Economics: There is an increase in profit for the lower seeding rate due to the lower cost of seed/acre.**	
CV	4.67%		
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