Flax Seeding Rate

Trial ID: 2023-FP08 — R.M. of Victoria

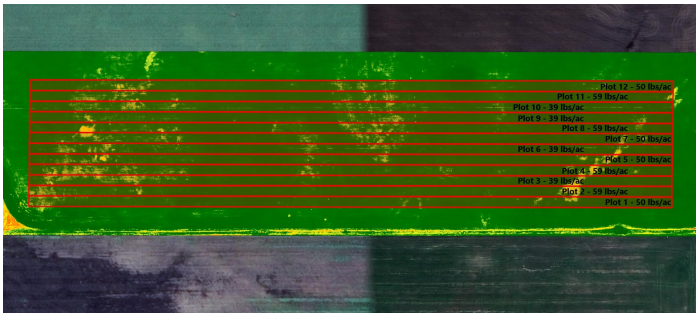
Objective: The purpose of this project is to quantify the agronomic and economic impacts of reducing and increasing normal seeding rate in flax.

Summary: There was no significant yield difference between seeding rates of 39, 50 and 59 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	39 lbs vs. 50 lbs vs. 59 lbs
Soil Texture	Fine Loams
Previous Crop	Wheat
Tillage	Conventional Tillage
Seeding Equipment	30’ Hoe Drill
Seeding Date	May 30
Variety	CDC Dorado
Germination	95%
Row Spacing	7.5”
Harvest Date	September 18

NDVI Imagery August 08



Flax Response

	Plants/ft²	TWT (kg/hL)	Grade
39 lbs	39	72	1
50 lbs	49	71	1
59 lbs	52	71	1

Precipitation† (mm)

	May	June	July	Aug	Cumulative
Rainfall	14	28	18	39	**98**
Normal	64	88	78	53	**283**
% Normal	21%	32%	23%	73%	**35%**

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

Overall Yield & Economics

	Mean (bu/ac)	Cost†	Change in Profit/ac††
39 lbs	32.7	$45.24/ac	+ $12.76/ac
50 lbs	32.9	$58.00/ac	$0/ac
59 lbs	32.6	$68.44/ac	- $10.44/ac
P-Value	0.8339	**Economics: There is an increase in profit for the lower seeding rate due to the lower cost of seed/acre.**	
CV	2.65%		
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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