Wheat Seed Treatment

Trial ID: 2023-WST04 — R.M. of Argyle

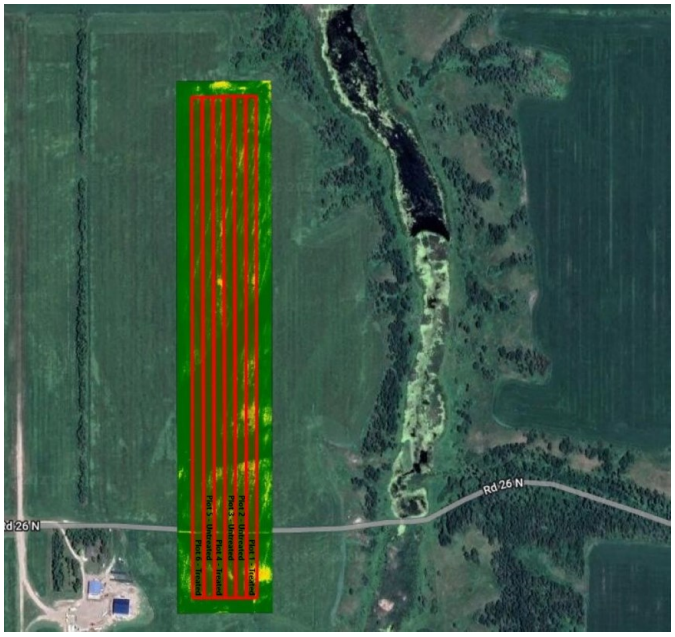
Objective: The purpose of this project is to quantify the agronomic and economic impacts of using a seed treatment on wheat.

Summary: There was not a significant yield difference between the treated seed and the untreated check. As a result, there was a decrease in profit equivalent to the increase in seed cost for the treated seed.

Trial Information

Treatment	Cruiser Vibrance Quattro
Soil Texture	Course Loams
Previous Crop	Oats
Tillage	Zero Till
Seeding Equipment	56’ Air Drill
Seeding Date	May 22
Seeding Rate	125 lbs/ac
Variety	AAC Hodge
Germination	Treated 98% / Untreated 99%
Row Spacing	12”
Harvest Date	September 01

NDVI Imagery July 13



Wheat Response

	Plants/ft²	Protein (%)	TWT (kg/hL)	Falling Number	Grade
Treated	32	16.0	61	400	1
Untreated	32	15.9	61	404	1

Precipitation† (mm)

	May	June	July	Aug	Cumulative
Rainfall	12	29	4	44	**89**
Normal	75	93	82	73	**323**
% Normal	16%	32%	5%	60%	**27%**

†Growing season precipitation (mm)

Overall Yield & Economics

	Mean (bu/ac)	Cost†	Change in Profit/ac
Treated	51.7	$5/ac	- $5/ac
Untreated	52.2		$0/ac
P-Value	0.7296	**Economics: Since yield was not significantly different, there is no increased income to offset the cost of the seed treatment.**	
CV	2.83%		
Significance	**No**		

†Represents cost of product only.

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