Dry Bean Inoculant Trial

Trial ID: 2023-DB1IN03 – R.M. of Glenboro - South Cypress

Objective: Quantify the agronomic and economic impacts of an inoculant product vs. no inoculation in dry beans.

Summary: There were no significant differences in yield or nodulation among dry beans treated with AGTIV® THRIVE™, compared to those without. Due to the lack of yield response, there was a decrease in profit/ac in the inoculated area of the trial, equivalent to the cost of the inoculant.

Trial Information ǂ

Treatment	1x AGTIV® THRIVE™
Previous Dry Bean Crop	2017
Soil Texture	Loamy Fine Sand
Previous Crop	Corn
Tillage	Conventional
Seeding Date	May 30
Variety	Red Hawk Kidney Bean
Seeding Rate	65 000 seeds/ac
Row Spacing	30"
Plant Stand @ V2	41 000 plants/ac
Irrigation	Yes
Spring Soil Test N (0-24")	55 lb/ac
Harvest Date	September 19

Precipitation (mm)

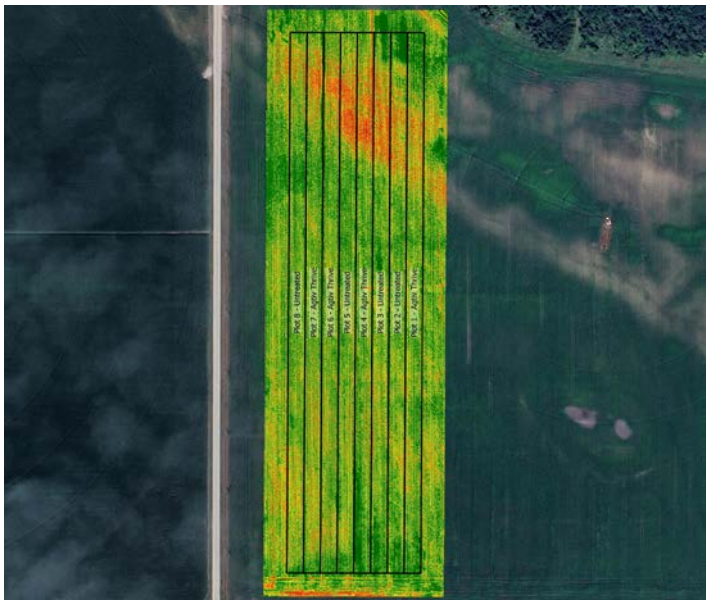
	May	June	July	Aug	Total
Rainfall	25.8	64.1	30	23.9	143
Normal	51.2	72.8	74	67.5	266
% Norm	50%	88%	40%	35%	54%

Nodulation ǂ

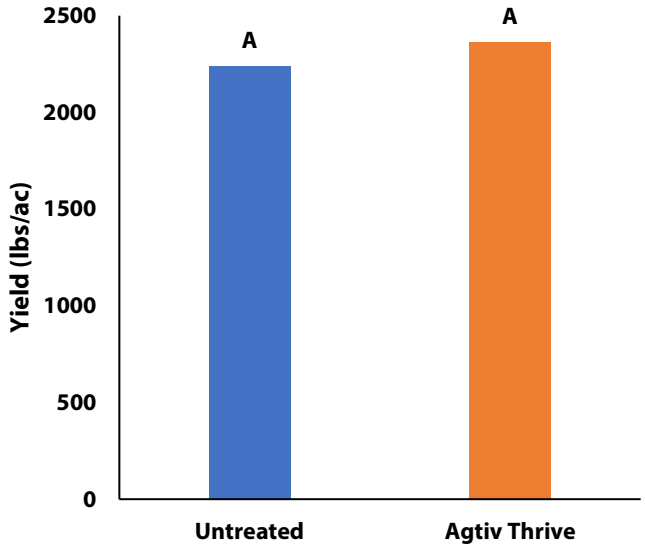
	Average total nodule number per plant at R2
Single	28.5 A
Untreated	26.1 A

ǂ Averages followed by different letters are significantly different at α =0.05

NDVI Field Image July 12



Yield by Treatment



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T 204 745.6488
www.manitobapulse.ca

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Overall Yield & Economics

	Mean (lbs/ac)	Cost †	Change in Profit ††
Agtiv Thrive	2362	$18/ac	-$18/ac
Untreated	2239		
Yield Difference	123		
P-Value	0.4130		
CV	8.4%		
Significance	**No**	**Economic**	**No**

† Based on an estimated cost for in-furrow inoculant

†† Because yields were not significantly different, there was no increased income to offset the cost of the inoculant

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