

Dry Bean Inoculant Trial

Trial ID: 2023-DB1IN04 – R.M. of North Norfolk

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

Summary: There were no significant differences in yield or nodulation among dry beans treated with AGTIV® FUEL™, 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†

Treatment	1x AGTIV® FUEL™
Years Since Dry Beans	4 years
Previous Dry Bean Crop	2018
Soil Texture	Fine Sandy Loam
Previous Crop	Corn
Tillage	Conventional
Seeding Date	May 30
Variety	T9905 Navy Bean
Seeding Rate	110 000 seeds/ac
Row Spacing	30"
Plant Stand @ V2	88 000 plants/ac
Spring Soil Test N (0-24")	74 lb/ac
Harvest Date	September 13

Precipitation (mm)

	May	June	July	Aug	Total
Rainfall	20.5	48.4	28	30.4	127
Normal	49.8	79.4	71	69.3	270
% Norm	41%	61%	39%	44%	47%

Nodulation†

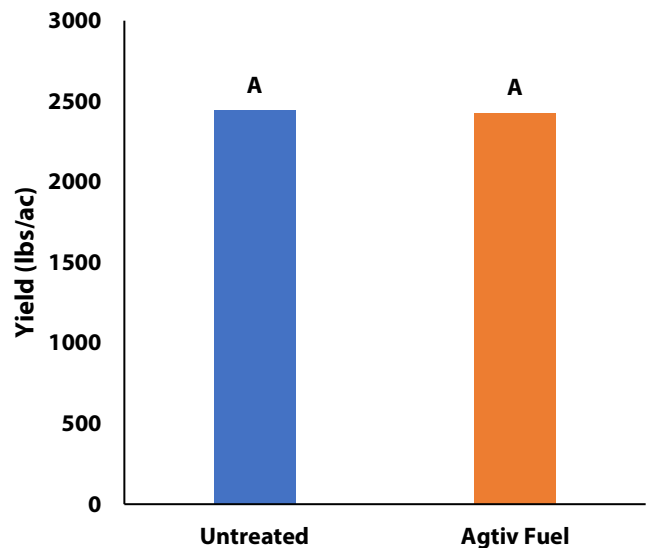
	Average total nodule number per plant at R2
Single	13.2 A
Untreated	17.9 A

† Averages followed by different letters are significantly different at $\alpha = 0.05$

NDVI Field Image July 19



Yield by Treatment





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Overall Yield & Economics

	Mean (lbs/ac)	Cost †	Change in Profit ††
Aktiv Fuel	2425.2	\$5/ac	-\$5/ac
Untreated	2442.2		
Yield Difference	-17.0		
P-Value	0.6064		
CV	1.8%		
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 single inoculant