Dry Bean Inoculant Trial

Trial ID: 2025-DB1IN01 – R.M. of Louise

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

Summary: There was no significant yield difference between dry beans with LEGUMFiX® with no added nitrogen (N) compared to untreated dry beans with added N. There were significantly more nodules per plant in the LEGUMFiX® treatment compared to those without. Due to the lack of yield response, there was a decrease in profit/ac, equivalent to the cost of the inoculant or nitrogen fertilizer.

Trial Information ǂ

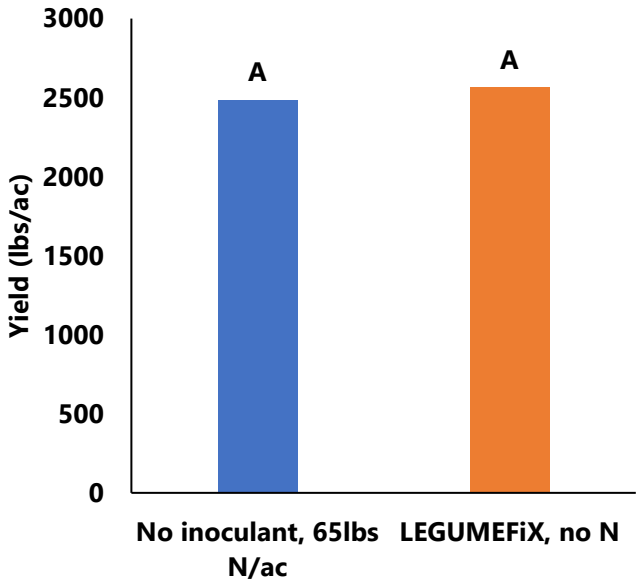
Treatments	Untreated (65lbs N) vs. 4g LEGUMFiX®/kg seed (no N)
Soil Texture	Clay Loam
Last Dry Bean Crop	Never
Previous Crop	Wheat
Tillage	Conventional Tillage
Seeding Date	5/29/2025
Variety	Black Bean BL Black Tails
Seeding Rate	119,750 seeds/ac
Row Spacing	10 in.
Plant Stand @ V2	101,938 plants/ac
Spring Soil Test N (0-24")	55 lbs/ac
Harvest Date	10/1/2025

NDVI Field Image July 16

Precipitation (mm)

	May	June	July	Aug	Total
Rainfall	39.5	26.3	88.7	44.7	199.2
Normal	70.92	89.47	78.51	58.55	297.45
% Norm	56%	29%	113%	76%	67%

Yield by Treatment



Nodulation ǂ

	Average Total Nodule Number per Plant at R1
Untreated (with N)	1.2 B
LEGUMEFiX (no N)	13.5 A

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

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Overall Yield & Economics

	Mean (lbs/ac)	Cost †	Change in Profit ††
Untreated (with N)	2484	$55.90/ac	-$55.90/ac
LEGUMEFiX (no N)	2565	$4.30/ac	-$4.30/ac
Yield Difference	81		
P-Value	0.3020		
CV	4.1%		
Significance	**No**	**Economic**	**No**

† Based on an estimated cost for in-furrow inoculant and fertilizer ($0.86/lb of actual N)

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

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