Soybean Biological Trial

Trial ID: 2025-SB04 – R.M. of Roland

Objective: Quantify the agronomic and economic impacts of biological products for soybean production.

Summary: There was no significant yield differences between soybeans treated with PhycoTerra™ FX and those without. Due to the lack of yield response, there was a decrease in profit/ac in the treated area of the trial, equivalent to the cost of product application.

Trial Information

Treatments	Untreated vs. 1L/ac PhycoTerra™ FX†
Soil Texture	Very Fine Sandy Loam
Previous Crop	Dry Beans
Tillage	Cultivate, 1x Spring Harrow
Seeding Date	14/05/2025
Variety	DKB006-80
Seeding Rate	140,000 seeds/ac
Row Spacing	30 in.
Plant Stand @ R5	140,563 plants/ac
Harvest Date	9/26/2025

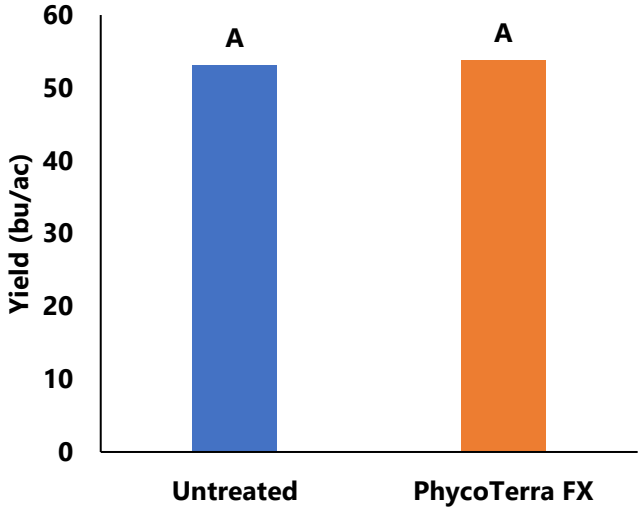
† PhycoTerra™ is a microalgae-based liquid biological product intended to improve drought stress tolerance, nutrient acquisition and improve crop yield.

NDVI Field Image August 14

Precipitation (mm)

	May	June	July	Aug	Total
Rainfall	36.6	34.9	43.2	48.3	163
Normal	76.56	89.72	70.62	66.02	302.92
% Norm	48%	39%	61%	73%	54%

Yield by Treatment



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Overall Yield & Economics

	Mean (bu/ac)	Cost ǂ	Change in Profit ǂǂ
PhycoTerra™ FX	53.7	$6.50/ac	-$6.50/ac
Untreated	53.1		
Yield Difference	0.6		
P-Value	0.3828		
CV	1.7%		
Significance	**No**	**Economic**	**No**

ǂ Based on an estimated cost for biological products, does not include application cost

ǂǂ Yields were not significantly different, therefore there is no increased income to offset the cost of the biological product

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