

Soybean Biological Trial

Trial ID: 2023-SB03 – R.M. of Springfield

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

Summary: There was no significant yield difference between soybeans treated with Fertiactyl® 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.

Trial Information

Treatment	Fertiactyl®
Soil Texture	Clay
Previous Crop	Oats
Tillage	Conventional
Seeding Date	May 16
Variety	TH81007 R2XN
Seeding Rate	150 000 seeds/ac
Row Spacing	22"
Plant Stand @ V2	120 000 plants/ac
Harvest Date	September 21

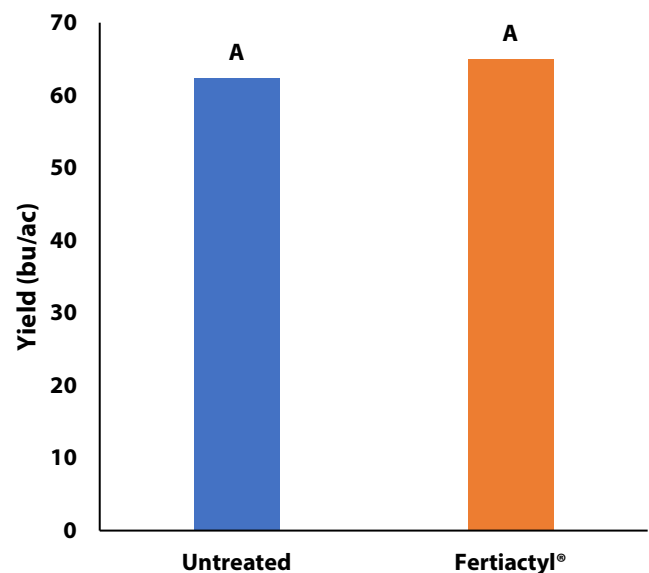
Precipitation (mm)

	May	June	July	Aug	Total
Rainfall	39.4	58.7	50	56.1	205
Normal	54	89.99	73	72.6	290
% Norm	73%	65%	69%	77%	71%

NDVI Field Image August 14



Yield by Treatment





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Overall Yield & Economics

	Mean (bu/ac)	Cost †	Change in Profit ††
Treated	65.0	\$28/ac	-\$28/ac
Untreated	62.4		
Yield Difference	2.6		
P-Value	0.454		
CV	6.9%		
Significance	No	Economic	No

† Based on an estimated cost for biological products

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