

Soybean Boron Foliar Trial

Trial ID: 2025-SBF09 – R.M. of La Broquerie

Objective: Quantify the agronomic and economic impacts of a single foliar boron fertilizer application for soybean production.

Summary: There was no significant yield difference between soybeans with and without a R1 foliar boron (B) application. A spring composite soil sample of the trial area resulted in a “low” soil B (0.8 ppm) level. All plots were plant tissue sampled after boron application and both treatments were similar and considered “sufficient” in plant B. Nodulation ratings were similar between treatments. As a result, there was a decrease in profit/ac equal to the cost of product application.

Trial Information

Treatment	Untreated vs. Solubor®
Application Timing	R1
Application Date	7/1/2025
Application Rate	0.5 lbs/ac
Application Method	Broadcast
Soil Texture	Loamy Fine Sand
Spring Soil Test Boron (0-6")	0.8 ppm (“Low” per AGVISE interpretation)
Previous Crop	Canola
Tillage	Zero Tillage
Seeding Date	5/13/2025
Variety	S007-A2XS
Seeding Rate	185,000 seeds/ac
Row Spacing	10 in.
Plant Stand @ R2	158,375 plants/ac
Harvest Date	10/2/2025

Precipitation (mm)

	May	June	July	Aug	Total
Rainfall	13.5	53	64.6	90.6	221.7
Normal	69.23	87.27	75.83	62.14	294.47
% Norm	20%	61%	85%	146%	75%

Foliar Boron Content (R2) †

	Foliar Boron Content (ppm)
Solubor	28.0 A
Untreated	28.3 A

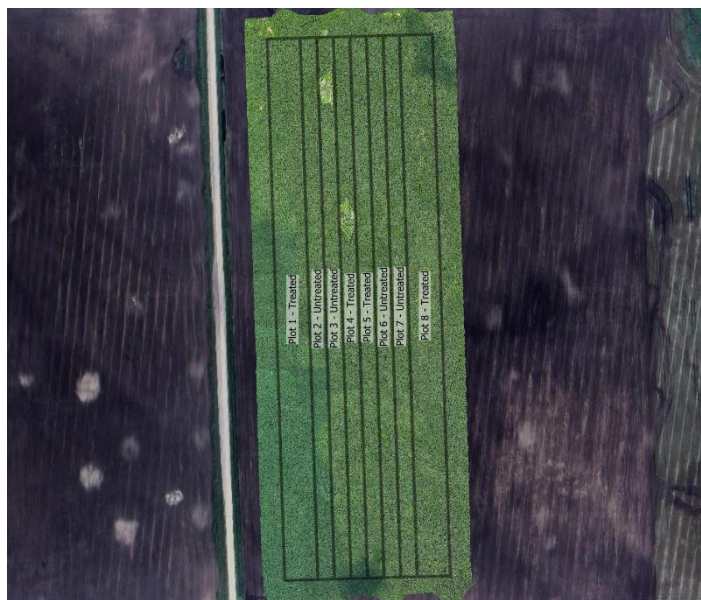
† Foliar samples (uppermost trifoliates) were collected after at least 10 days after application. Samples were then sent for total foliar Boron content testing. Plant B values >20 ppm are considered “sufficient” per AGVISE Laboratories interpretation.

Nodulation Rating †

	Nodulation Rating
Solubor	3.6 A
Untreated	3.5 A

† Nodulation ratings were done at flowering (R1-R2) and the number of pink, healthy and active nodules were rated on a scale of 0-4, where 0 = no nodules, and 4 = 20+ healthy nodules/plant.

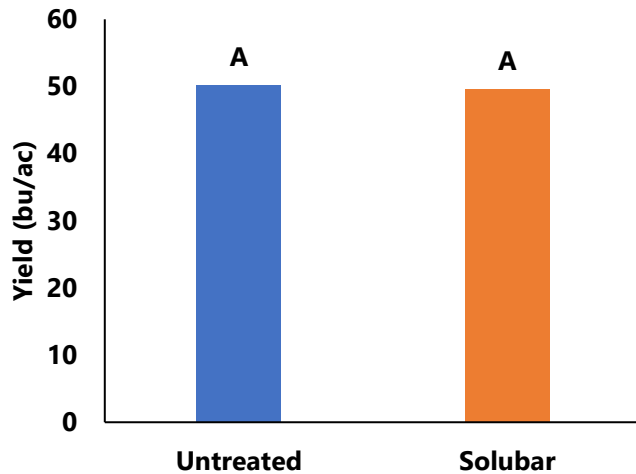
RBG Field Image August 13 †



† RBG image used due to technical difficulties with NDVI imaging.

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Yield by Treatment



Overall Yield & Economics

	Mean (bu/ac)	Cost †	Change in Profit ††
Solubar	49.6	\$2.00/ac	-\$2.00/ac
Untreated	50.2		
Yield Difference	-0.6		
P-Value	0.7623		
CV	4.80%		
Significance	No	Economic	No

† Based on an estimated cost for foliar boron fertility products, does not include application cost

†† Yields were not significantly different, therefore there is no increased income to offset the cost of the foliar boron fertility product.