Pea Foliar Boron Trial

Trial ID: 2022-PBF01 – R.M. of Minitonas-Bowsman

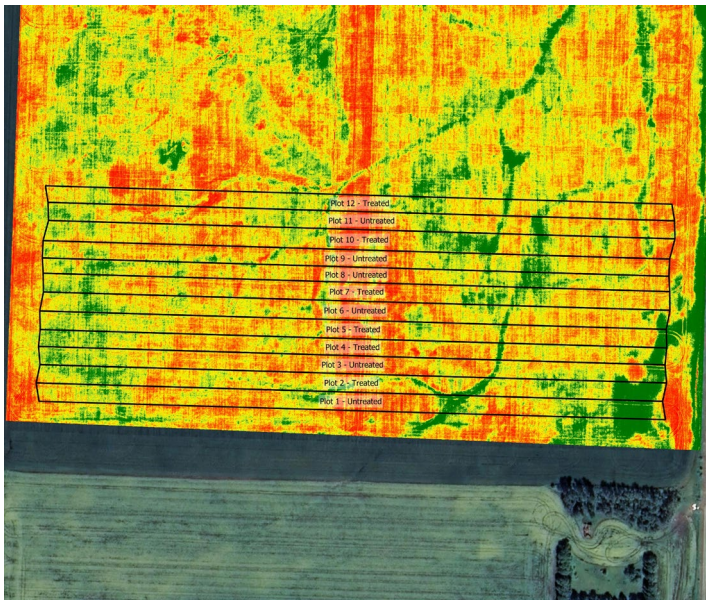
Objective: Quantify the agronomic and economic impacts of a foliar boron application in field peas.

Summary: Pod counts were very similar between treated and untreated peas. There was no significant yield difference between peas with and without a foliar application of boron. As a result, profit/ac in the treated area of the trial decreased by the cost/ac of boron application.

Trial Information

Treatment	Nexus Boron
Application Timing	Full Flower
Application Date	July 25
Application Rate	0.5 l/ac
Application Method	Broadcast
Soil Texture	Clay Loam
Spring 2022 Soil Boron	1.5 ppm
Previous Crop	Spring Wheat
Tillage	Conventional
Seeding Date	May 12
Variety	AAC Chrome
Seeding Rate	3.5 bu/ac
Row Spacing	10"
Plant Stand @ R4	227,000 plants/ac
Harvest Date	August 24

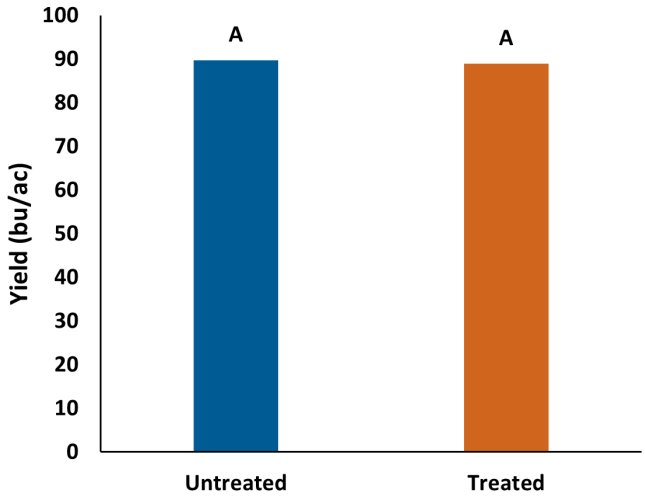
NDVI Field Image August 11



Precipitation (mm)

	May	Jun	Jul	Aug	Total
Rainfall	114.1	59.7	42.7	41.9	258.4
Normal	45.4	84.2	85.6	68.3	283.5
% Normal	251%	71%	50%	61%	91%

Yield by Treatment



Pod Counts

	Average # of Pods/Plant August 10
Untreated	7.4
Treated	7.6

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Overall Yield & Economics

	Mean (bu/ac)	Cost ǂ	Change in Profit/ac ǂǂ
Treated	88.95	$6/ac	-$6/ac
Untreated	89.75		
Yield Difference	-0.8		
P-Value	0.798		
CV	6.1%		
Significance	**No**	**Economic**	**No**

ǂ Based on estimated cost of $6/ac for foliar boron product; does not include application cost.

ǂ ǂ Yields were not significantly different, therefore profit/ac decreased by the cost/ac of the foliar boron treatment.

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