

Pea Foliar Boron Trial

Trial ID: 2020-PB01 – R.M. of Swan Valley West

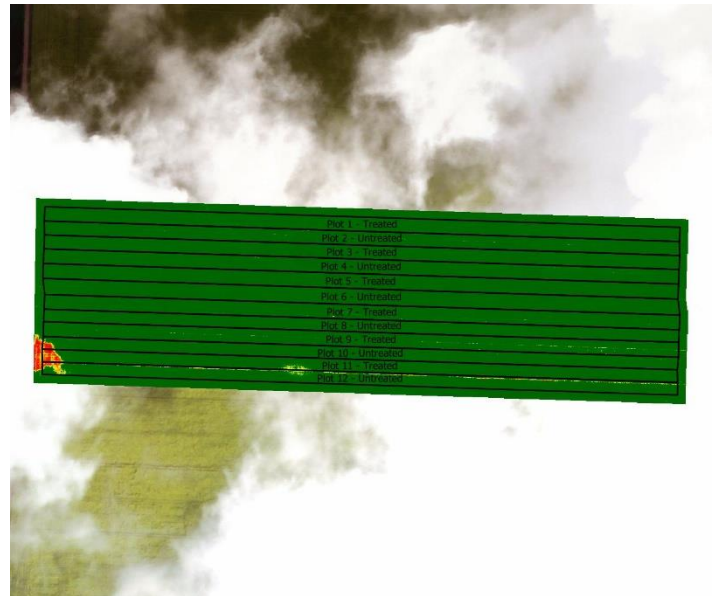
Objective: Quantify the agronomic and economic impacts of foliar boron application in field peas

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, for the treated area, there was a loss in profit/ac equivalent to the cost of application per acre.

Trial Information

Treatment	Treated and Untreated
Application Timing	Full Flower
Application Date	July 7
Application Rate	0.5 L/ac
Application Method	Broadcast
Soil Texture	Clay Loam
Fall 2019 Soil Boron	0.8 ppm (0-6")
Previous Crop	Wheat
Tillage	Conventional
Seeding Date	May 7
Variety	CDC Inca
Seeding Rate	210 lb/ac
Row Spacing	12"
Harvest Date	August 27

NDVI Field Image July 29



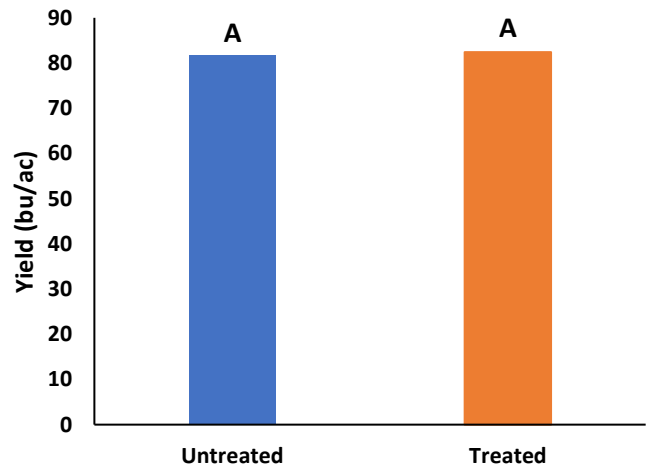
Precipitation (mm)

	May	June	July	August
Normal	45.4	84.2	85.6	68.3
Rainfall	11	86.6	143.7	66.9

Pod Counts (R4)

	Avg # Pods/Plant
Treated	11.8
Untreated	11.1

Yield by Treatment





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Overall Yield & Economics

	Mean (bu/ac)	Cost †	Change in Profit/ac ††
Treated	82.4	\$10/ac	-\$10/ac
Untreated	81.6		
Yield Difference	0.8		
P-Value	0.3286		
CV	2.2%		
Significance	No	Economic	No

† Based on estimated cost of \$10/ac for foliar boron; product only, does not include application cost

† † No significant yield difference, so there is no increase in yield to offset the cost of the product