

# Pea Foliar Boron Trial

**Trial ID:** 2020-PB03 – R.M. of Swan Valley West

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

**Summary:** Pod counts were similar between treatments. There was no significant yield difference between peas with and without a foliar boron application. As a result, for the treated area, there was a loss in profit/ac equivalent to the cost of application per acre.

## Trial Information

<b>Treatment</b>	Treated vs Untreated
<b>Application Timing</b>	Full Flower
<b>Application Date</b>	July 7
<b>Application Rate</b>	0.5La/ac
<b>Application Method</b>	Broadcast
<b>Soil Texture</b>	Clay Loam
<b>Fall 2019 Soil Boron</b>	1.7 ppm (0-6")
<b>Previous Crop</b>	Canola
<b>Tillage</b>	Conventional
<b>Seeding Date</b>	May 11
<b>Variety</b>	Abarth
<b>Seeding Rate</b>	210 lb/ac
<b>Row Spacing</b>	10"
<b>Harvest Date</b>	August 20

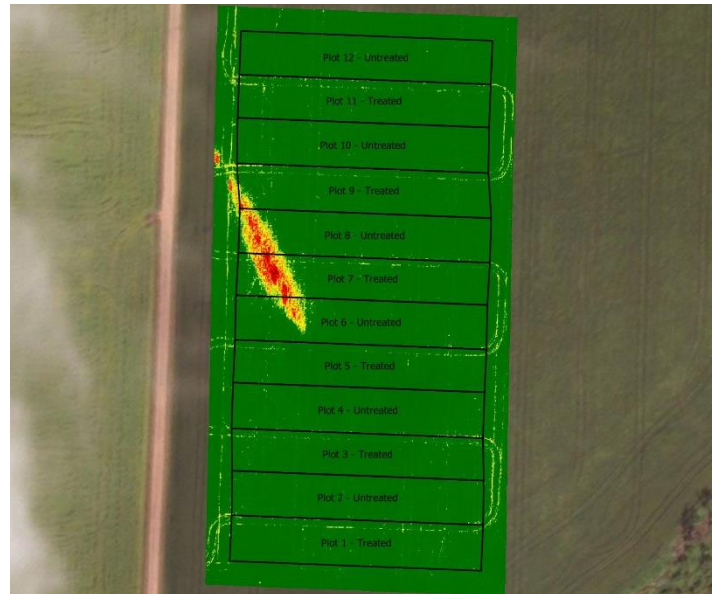
## Precipitation (mm)

	May	June	July	August
<b>Normal</b>	45.4	84.2	85.6	68.3
<b>Rainfall</b>	11	86.6	143.7	66.9

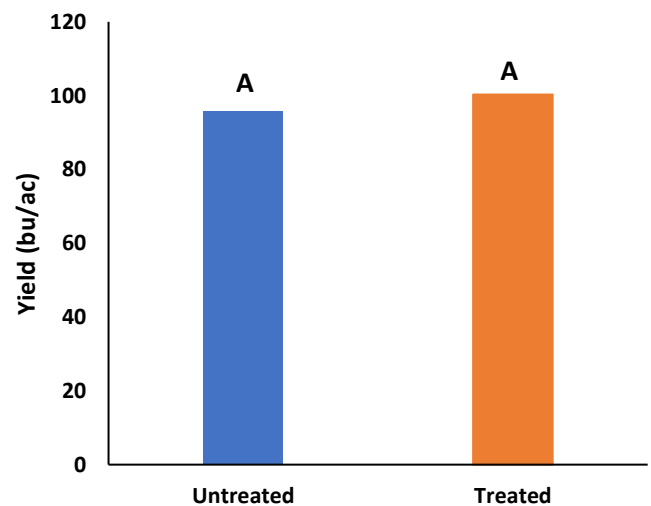
## Pod Counts (R4)

	Avg # pods/plant
<b>Treated</b>	10.2
<b>Untreated</b>	10.4

## NDVI Field Image July 29



## Yield by Treatment





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### Overall Yield & Economics

	<b>Mean (bu/ac)</b>	<b>Cost †</b>	<b>Change in Profit/ac ††</b>
<b>Treated</b>	100.3	\$10/ac	-\$10/ac
<b>Untreated</b>	95.9		
<b>Yield Difference</b>	4.4		
<b>P-Value</b>	0.3686		
<b>CV</b>	7.8		
<b>Significance</b>	<b>No</b>	<b>Economic</b>	<b>No</b>

† 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