

## Soybean Potassium Fertility Trial

Trial ID: 2018-SK05 – R.M. of La Broquerie

**Objective:** Quantify the agronomic and economic impacts of potassium fertilizer on soybean fields with <150 ppm soil test K in Manitoba. Potash was applied in a band application in the spring at 60 lbs/ac K<sub>2</sub>O and compared to an untreated check.

### TRIAL INFORMATION

<b>Treatment</b>	Band application – 60 lbs K <sub>2</sub> O/ac
<b>Rural Municipality</b>	La Broquerie
<b>Previous Crop</b>	Corn
<b>Soil Description</b>	Loamy Fine Sand
<b>Tillage</b>	Reduced Till
<b>Planting Date</b>	May 17, 2018
<b>Variety</b>	Syngenta W5
<b>Row Spacing</b>	10"
<b>Seeding Rate</b>	195,000 seeds/ac
<b>Plant Stand @ V1</b>	155,000 plants/ac
<b>Harvest Date</b>	September 15, 2018

### SOIL PROPERTIES†

<b>Soil Test Sample Timing</b>	Spring
<b>Soil K Level</b>	115 ppm

† Composite soil sample of the trial area before seeding at 0-6" depth

### PRECIPITATION†

	May	June	July	Aug
<b>Rainfall</b>	59	71	44	84
<b>Normal</b>	58	91	80	66

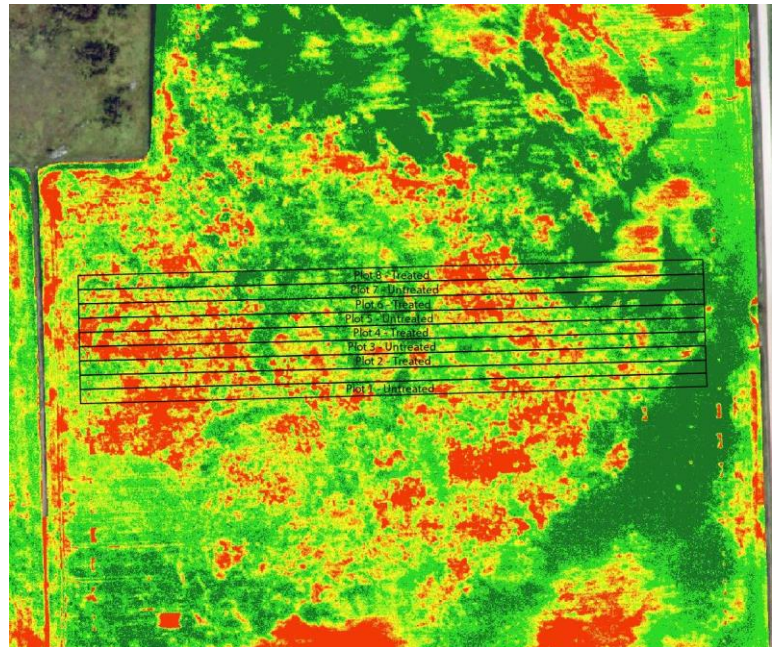
† Growing season precipitation (mm)

### OVERALL YIELD

	Mean (bu/ac)
<b>Broadcast – 120 lbs/ac Potash</b>	40.9
<b>Untreated</b>	40.1
<b>Yield Difference</b>	0.8
<b>P-Value</b>	0.0503
<b>CV</b>	1.8%
<b>Significance</b>	No

**Summary:** There was no significant yield difference between potash applied at seeding compared to an untreated check. There were no visual potassium deficiency symptoms observed in season in the trial. Rainfall was near normal for the growing season.

### NDVI FIELD IMAGE – AUGUST 11, 2018



### STRIP YIELD

