

## Soybean Potassium Trial

Trial ID: 2017-SK03 – R.M. of North Norfolk

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

### TRIAL INFORMATION

<b>Treatment</b>	Mid Row Band – 60 lbs/ac K <sub>2</sub> O
<b>Rural Municipality</b>	North Norfolk
<b>Previous Crop</b>	Fall Rye
<b>Soil Description</b>	Sandy Loam Lacustrine
<b>Tillage</b>	Strip Till
<b>Planting Date</b>	May 20, 2017
<b>Variety</b>	P008T70R
<b>Row Spacing</b>	22"
<b>Seeding Rate</b>	173,000 seeds/ac
<b>Plant Stand @ V1</b>	161,000 plants/ac
<b>Harvest Date</b>	October 5, 2017

### SOIL PROPERTIES†

<b>Soil Test Sample Timing</b>	Spring
<b>Soil K Level</b>	105 ppm

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

### PRECIPITATION†

	May	June	July	Aug
<b>Rainfall</b>	26.9	69.9	29.6	8.9
<b>Normal</b>	54.4	90.0	78.4	68.3

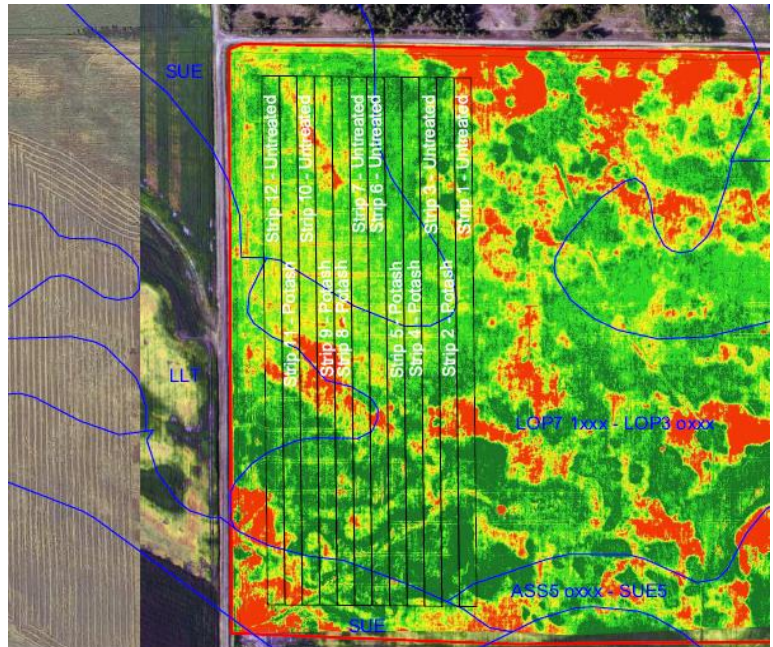
† Growing season precipitation (mm)

### OVERALL YIELD

	Mean (bu/ac)
<b>Midrow Band – 60 lbs/ac Potash</b>	39.6
<b>Untreated</b>	39.2
<b>Yield Difference</b>	0.4
<b>P-Value</b>	0.8175
<b>CV</b>	8.2%
<b>Significance</b>	No

**Summary:** There was no significant yield difference between potash fertilizer mid row banded at 60 lbs/ac K<sub>2</sub>O and untreated check strips. The soil test K level was 105 ppm based on a composite soil sample before seeding. This study is apart of a more detailed University of Manitoba small plot study which compares multiple rates and placements of potash fertilizer in soybeans. Potassium fertilization recommendations will not be made until this study is complete in 2018.

### FIELD IMAGE – AUG. 29, 2017



### STRIP YIELD

