

## Soybean Potassium Trial

Trial ID: 2017-SK12 – R.M. of Dauphin

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

### TRIAL INFORMATION

Treatment	Side Band – 60 lbs/ac K <sub>2</sub> O
Rural Municipality	Dauphin
Previous Crop	Canola
Soil Description	Calcareous Loamy Till
Tillage	Harrow
Planting Date	May 26, 2017
Variety	Akras R2
Row Spacing	10"
Seeding Rate	183,000 seeds/ac
Plant Stand @ V1	161,000 plants/ac
Harvest Date	October 13, 2017

### SOIL PROPERTIES†

Soil Test Sample Timing	Spring
Soil K Level	105 ppm

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

### PRECIPITATION†

	May	June	July	Aug
Rainfall	47.6	65.8	90.6	19.3
Normal	52.9	81.7	73.1	61.3

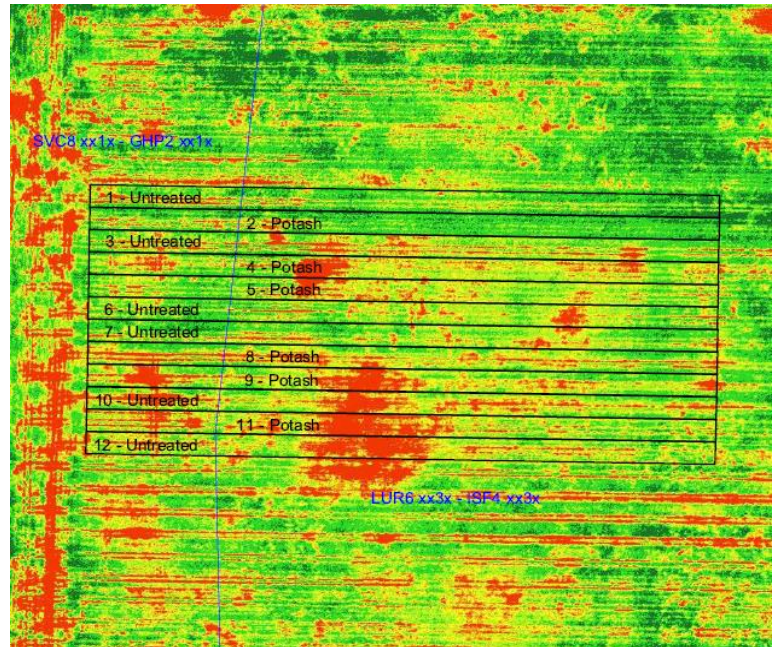
† Growing season precipitation (mm)

### OVERALL YIELD

	Mean (bu/ac)
Side Band – 60 lbs/ac Potash	29.8
Untreated	29.6
Yield Difference	0.2
P-Value	0.8103
CV	8.9%
Significance	No

**Summary:** There was no significant yield difference between potash fertilizer side 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. 16, 2017



### STRIP YIELD

