

## **Soybean Potassium Trial**

Trial ID: 2017-SK14 - R.M. of Hanover

**Objective:** Quantify the agronomic and economic impacts of potassium fertilizer on soybean fields with <150 ppm soil test K in Manitoba. Potash was broadcast and incorporated at 120 lbs/ac  $\rm K_2O$  and compared to untreated check strips.

TRIAL INFORMATION			
Treatment	Broadcast – 120 lbs/ac K <sub>2</sub> O		
<b>Rural Municipality</b>	Hanover		
<b>Previous Crop</b>	Canola		
Soil Description	Sandy Lacustrine		
Tillage	-		
Planting Date	May 6, 2017		
Variety	P009T22R2		
<b>Row Spacing</b>	30"		
Seeding Rate	165,000 seeds/ac		
Plant Stand @ V1	145,000 plants/ac		
Harvest Date	September 28, 2017		

SOIL PROPERTIES <sup>†</sup>			
Soil Test Sample Timing	Spring		
Soil K Level	114 ppm		

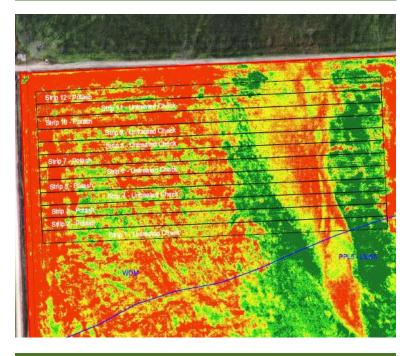
 $<sup>{</sup>m t}$  Composite soil sample of the trial area before seeding at 0-6" depth

PRECIPITATION <sup>†</sup>					
	і і Мау	June	July	ı Aug	
Rainfall	29.3	54.4	36.2	10.1	
Normal	61.6	101.1	89.3	72.4	

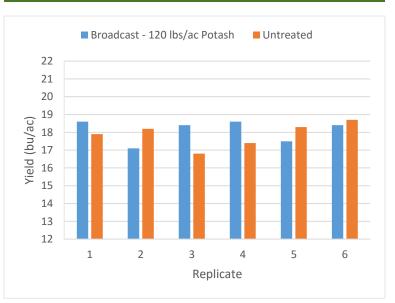
<sup>+</sup> Growing season precipitation (mm)

OVERALL YIELD			
	Mean (bu/ac)		
Broadcast – 120 lbs/ac Potash	18.1		
Untreated	17.9		
Yield Difference	0.2		
P-Value	0.6524		
CV	3.6%		
Significance	No		

## **FIELD IMAGE - AUG. 22, 2017**



## STRIP YIELD



**Summary:** There was no significant yield difference between potash fertilizer broadcast and incorporated at 120 lbs/ac K<sub>2</sub>O and untreated check strips. The soil test K level was 114 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.

