

## Soybean Seeding Rate Trial

Trial ID: 2018-SP17 – R.M. of Swan Valley West

**Objective:** Quantify the agronomic and economic impacts of a seeding rate of 190,000 seeds/ac, 160,000 seeds/ac and 130,000 seeds/ac.

### TRIAL INFORMATION

<b>Treatment</b>	190K vs 160K vs 130K
<b>Rural Municipality</b>	Swan Valley West
<b>Previous Crop</b>	Canola
<b>Soil Texture</b>	Clay
<b>Tillage</b>	No-Till
<b>Seeding Equipment</b>	Air-Drill
<b>Planting Date</b>	May 20, 2018
<b>Variety</b>	---
<b>Row Spacing</b>	10"
<b>Harvest Date</b>	October 18, 2018

### FIELD IMAGE



**on-farm network**  
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### SEEDING RATE VS. PLANT STAND

Seeding Rate	Plant Stand @ V1	Plant Stand @ Harvest
190,000 seeds/ac	---	133,000
160,000 seeds/ac	---	104,000
130,000 seeds/ac	---	74,000

### PRECIPITATION†

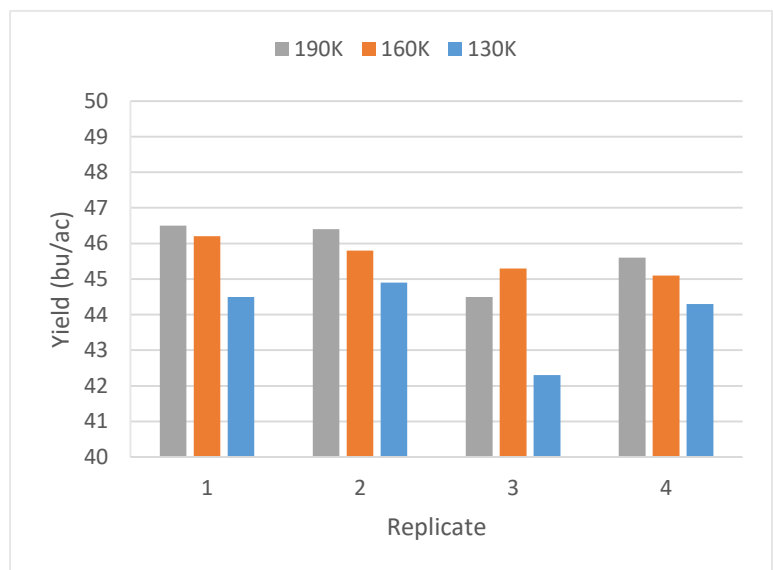
	May	June	July	Aug
<b>Rainfall</b>	38	139	61	35
<b>Normal</b>	45	84	86	68

† Growing season precipitation (mm)

### OVERALL YIELD

	Mean (bu/ac)
190,000 seeds/ac	45.8 a
160,000 seeds/ac	45.6 a
130,000 seeds/ac	44.0 b
<b>P-Value</b>	0.0056
<b>CV</b>	2.6%
<b>Significance</b>	<b>Yes</b>

### STRIP YIELD



**Summary:** There was a significant yield difference between soybeans planted at 130,000 seeds/ac compared to 190,000 seeds/ac and 160,000 seeds per acre, but no significant difference between 190,000 and 160,000 seeds/ac on 10" row spacing. Soybean plant stand ranged from a high of 133,000 plants/ac to a low of 74,000 plants/ac when assessed at harvest.