

Soybean Population Trials – Central Manitoba

Trial ID: 2017-SP01 – R.M. of Louise

Objective: Quantify the agronomic and economic impacts of reducing the farmers normal seeding rate by 30,000 seeds/ac in soybean fields.

TRIAL INFORMATION

Treatment	Reduced Seeding Rate
Rural Municipality	Louise
Previous Crop	Spring Wheat
Soil Description	Loamy Lacustrine
Tillage	Zero Tillage
Seeding Equipment	Air Drill
Planting Date	May 20, 2017
Variety	S007-Y4
Row Spacing	10"
Harvest Date	October 6, 2017

SEEDING RATE VS. PLANT STAND

Seeding Rate	Plant Stand @ V1	Plant Stand @ Harvest
185,000 seeds/ac	111,000	121,000
155,000 seeds/ac	89,000	108,000

PRECIPITATION†

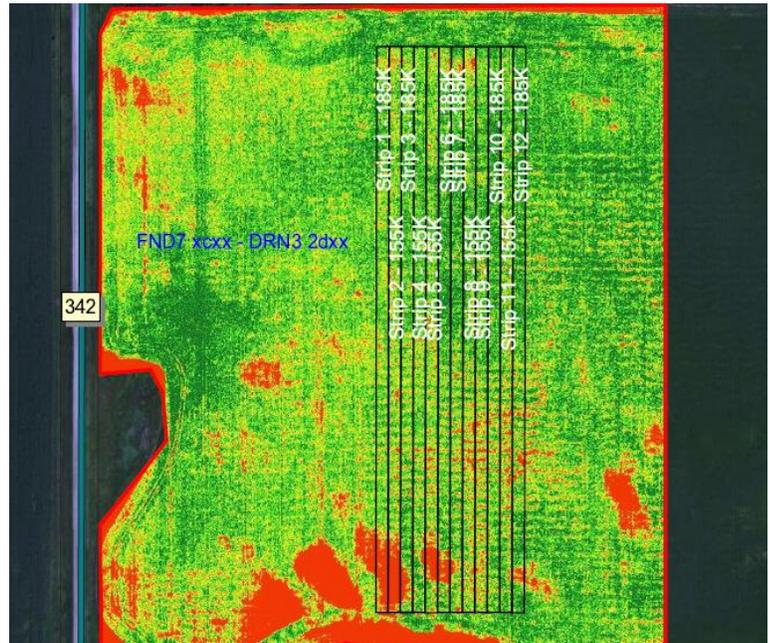
	May	June	July	Aug
Rainfall	18.5	74.3	99.5	32.1
Normal	70.4	92.9	82.1	72.5

† Growing season precipitation (mm)

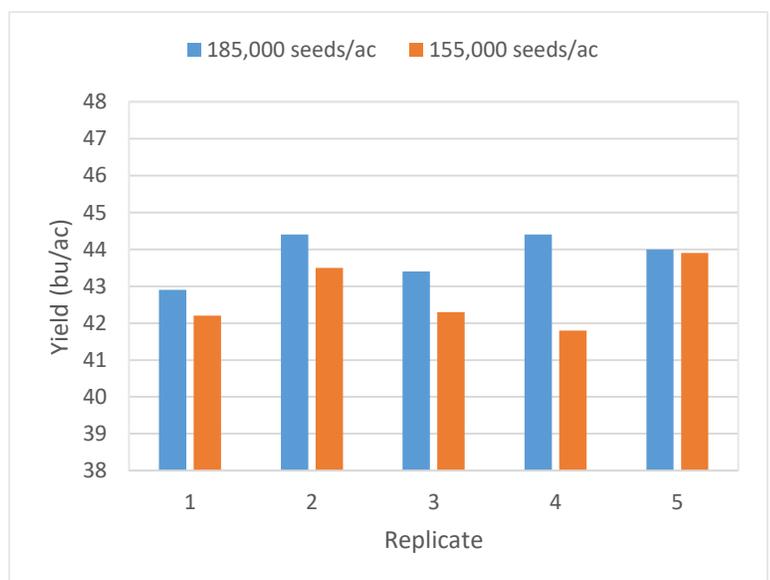
OVERALL YIELD

	Mean (bu/ac)
185,000 seeds/ac	43.8
155,000 seeds/ac	42.7
Yield Difference	1.1
P-Value	0.0600
CV	2.2%
Significance	No

FIELD IMAGE



STRIP YIELD



Summary: There was no significant yield difference between the normal seeding rate of 185,000 seeds/ac and the reduced seeding rate of 155,000 seeds/ac. The actual plant stand for the normal seeding rate and reduced seeding rate at V1 was 111,000 plants/ac and 89,000 plants/ac, respectively.