

Soybean Population Trials – Western Manitoba

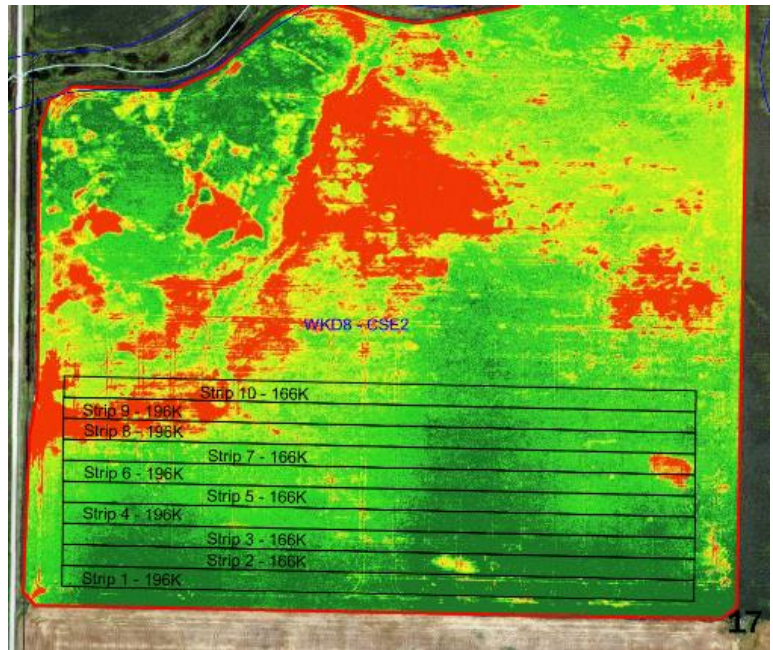
Trial ID: 2017-SP02 – R.M. of Grassland

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	Grassland
Previous Crop	Spring Wheat
Soil Description	Loamy Lacustrine
Tillage	Cultivate 1x
Seeding Equipment	Air Drill
Planting Date	May 23, 2017
Variety	PS 0035 NR2
Row Spacing	12"
Harvest Date	September 29, 2017

FIELD IMAGE



SEEDING RATE VS. PLANT STAND

Seeding Rate	Plant Stand @ V1	Plant Stand @ Harvest
196,000 seeds/ac	186,000	191,000
166,000 seeds/ac	149,000	147,000

PRECIPITATION†

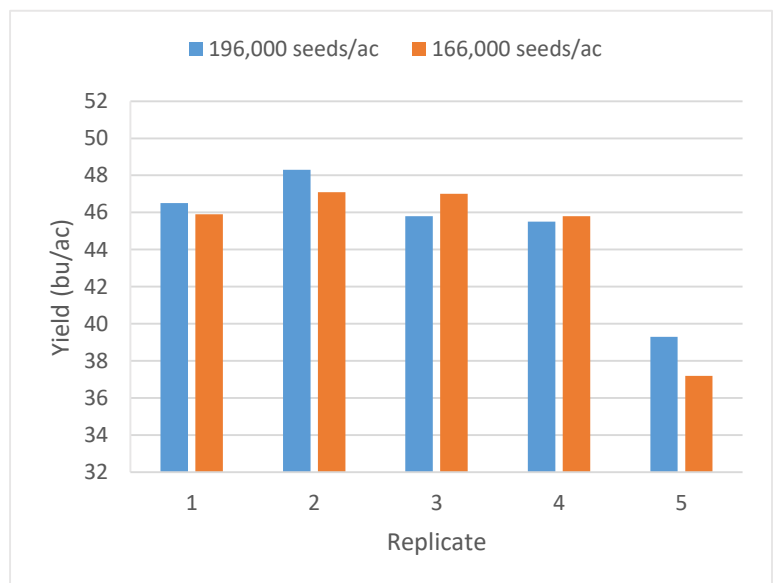
	May	June	July	Aug
Rainfall	18.0	83.5	55.3	37.4
Normal	57.2	92.1	72.6	54.5

† Growing season precipitation (mm)

OVERALL YIELD

	Mean (bu/ac)
196,000 seeds/ac	45.1
166,000 seeds/ac	44.6
Yield Difference	0.5
P-Value	0.4500
CV	8.0%
Significance	No

STRIP YIELD



Summary: There was no significant yield difference between the normal seeding rate of 196,000 seeds/ac and the reduced seeding rate of 166,000 seeds/ac. The actual plant stand for the normal seeding rate and reduced seeding rate at V1 was 186,000 plants/ac and 149,000 plants/ac, respectively.