

Soybean Seeding Rate Trial

Trial ID: 2018-SP03 – R.M. of Macdonald

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

Treatment	190K vs 160K vs 130K
Rural Municipality	Macdonald
Previous Crop	Spring Wheat
Soil Texture	Clay
Tillage	Conventional
Seeding Equipment	Air Drill
Planting Date	May 8, 2018
Variety	LS MISTRAL
Row Spacing	10"
Harvest Date	September 10, 2018

SEEDING RATE VS. PLANT STAND

Seeding Rate	Plant Stand @ V1	Plant Stand @ Harvest
190,000 seeds/ac	165,000	166,000
160,000 seeds/ac	164,000	161,000
130,000 seeds/ac	107,000	110,000

PRECIPITATION†

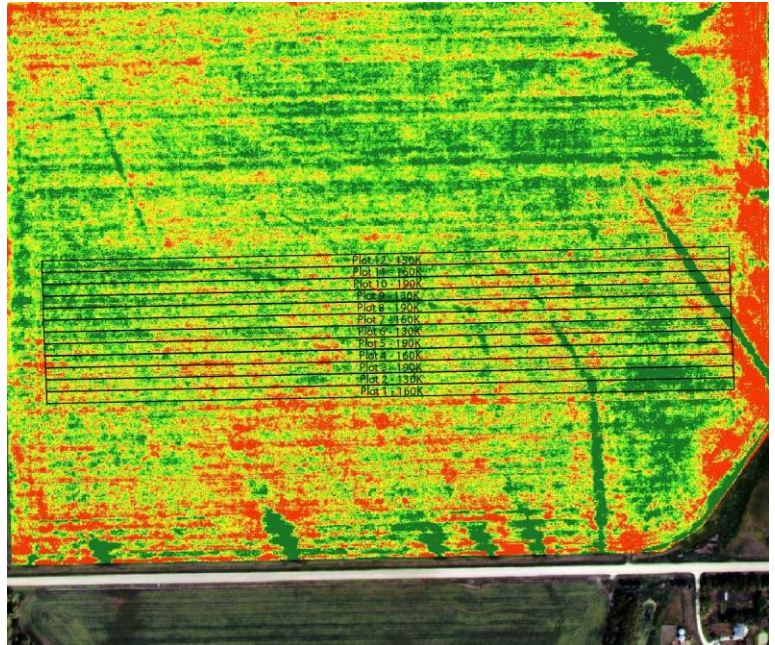
	May	June	July	Aug
Rainfall	40	81	74	24
Normal	59	92	78	68

† Growing season precipitation (mm)

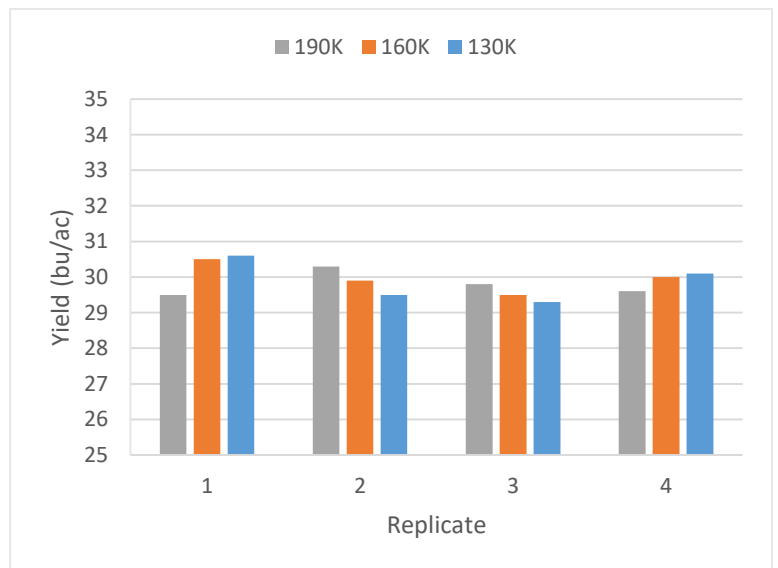
OVERALL YIELD

	Mean (bu/ac)
190,000 seeds/ac	29.8
160,000 seeds/ac	30.0
130,000 seeds/ac	29.9
P-Value	0.8669
CV	1.4%
Significance	No

NDVI FIELD IMAGE – AUGUST 13, 2018



STRIP YIELD



Summary: There was no significant yield difference between soybeans seeded at 190,000 seeds/ac, 160,000 seeds/ac, and 130,000 seeds/ac on 10" row spacing. Soybean plant stand ranged from a high of 165,000 plants/ac to a low of 107,000 plants/ac when assessed at growth stage V1.