

Soybean Seeding Rate Trial

Trial ID: 2018-SP09 – R.M. of Montcalm

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	Montcalm
Previous Crop	Millet
Soil Texture	Clay
Tillage	Conventional
Seeding Equipment	Air Drill
Planting Date	May 15, 2018
Variety	PRO 2525R2
Row Spacing	10"
Harvest Date	September 18, 2018

SEEDING RATE VS. PLANT STAND

Seeding Rate	Plant Stand @ V1	Plant Stand @ Harvest
190,000 seeds/ac	154,000	157,000
160,000 seeds/ac	117,000	130,000
130,000 seeds/ac	136,000	110,000

PRECIPITATION†

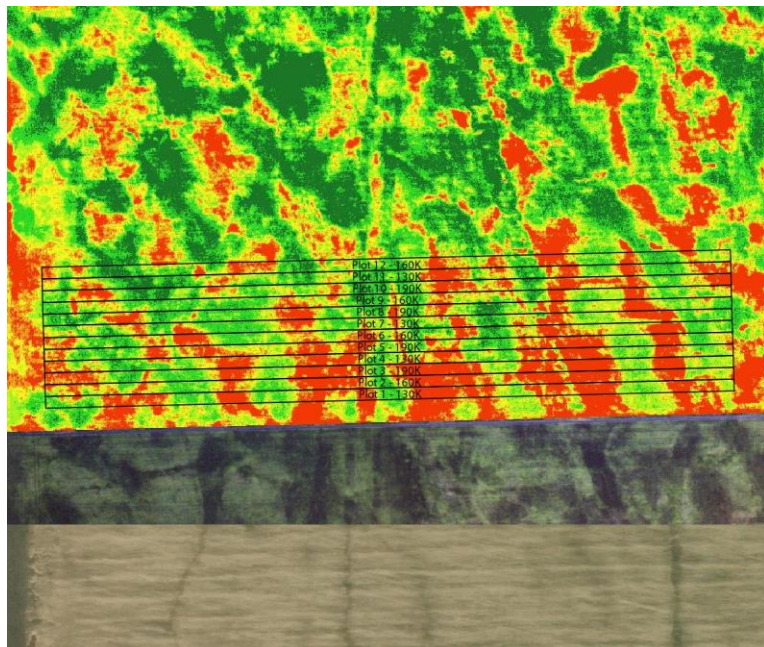
	May	June	July	Aug
Rainfall	44	69	47	37
Normal	58	90	81	72

† Growing season precipitation (mm)

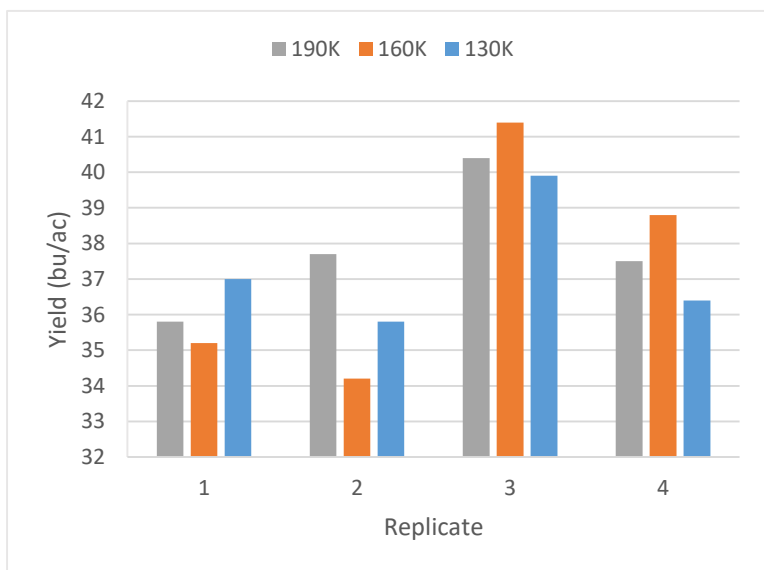
OVERALL YIELD

	Mean (bu/ac)
190,000 seeds/ac	37.9
160,000 seeds/ac	37.4
130,000 seeds/ac	37.3
P-Value	0.8263
CV	5.9%
Significance	No

NDVI FIELD IMAGE – AUGUST 11, 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 154,000 plants/ac to a low of 117,000 plants/ac when assessed at growth stage V1.