

Soybean Seeding Rate Trial

Trial ID: 2018-SP06 – R.M. of St. Clements

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	St. Clements
Previous Crop	Spring Wheat
Soil Texture	Fine Sandy Loam
Tillage	Conventional
Seeding Equipment	Air Drill
Planting Date	May 12, 2018
Variety	24-10RY
Row Spacing	10"
Harvest Date	September 20, 2018

SEEDING RATE VS. PLANT STAND

Seeding Rate	Plant Stand @ V1	Plant Stand @ Harvest
190,000 seeds/ac	134,000	---
160,000 seeds/ac	104,000	---
130,000 seeds/ac	104,000	---

PRECIPITATION†

	May	June	July	Aug
Rainfall	53	120	25	45
Normal	54	90	73	73

† Growing season precipitation (mm)

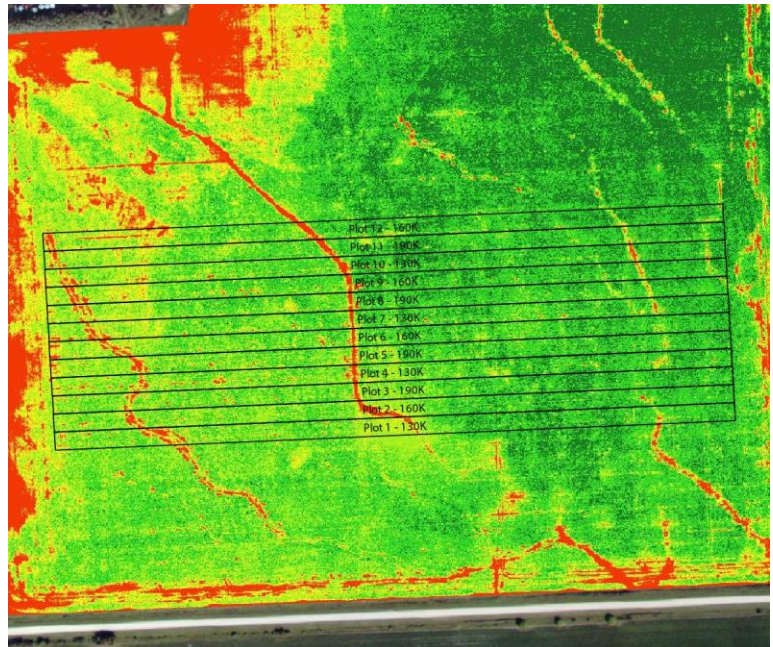
OVERALL YIELD

	Mean (bu/ac)
190,000 seeds/ac	51.6 a*
160,000 seeds/ac	50.3 b
130,000 seeds/ac	50.0 b
P-Value	0.0204
CV	2.0%
Significance	Yes

*Means followed by the same letter are not significantly different at P=0.05

Summary: There was a significant yield difference between soybeans seeded at 190,000 seeds/ac compared to 160,000 seeds/ac and 130,000 seeds/ac on 10" row spacing. Soybean plant stand ranged from a high of 134,000 plants/ac to a low of 104,000 plants/ac when assessed at growth stage V1.

NDVI FIELD IMAGE – AUGUST 13, 2018



STRIP YIELD

