

Soybean Seeding Rate Trial

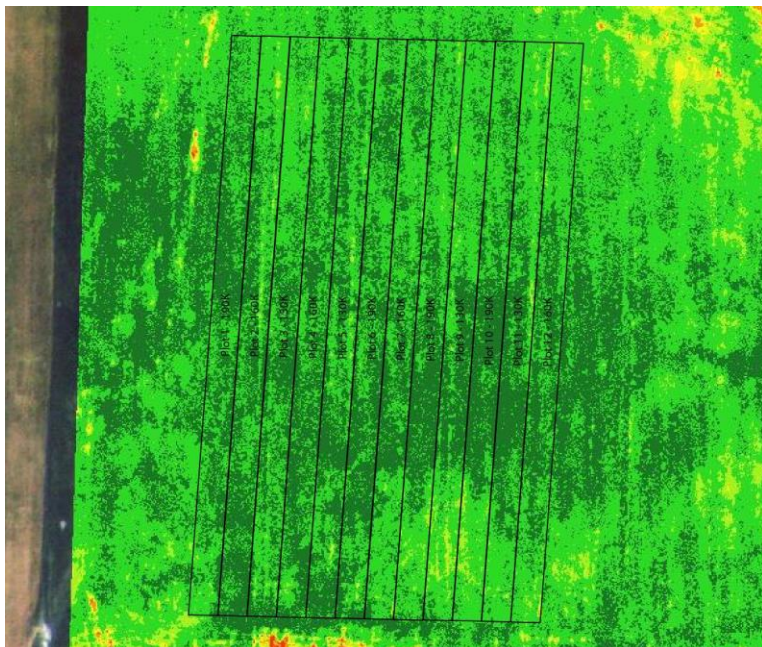
Trial ID: 2018-SP13 – R.M. of Grassland

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	Grassland
Previous Crop	Wheat
Soil Texture	Loamy Very Fine Sand
Tillage	No-till
Seeding Equipment	Planter
Planting Date	May 22, 2018
Variety	23-11
Row Spacing	15"
Harvest Date	September 28, 2018

NDVI FIELD IMAGE – AUGUST 10, 2018



SEEDING RATE VS. PLANT STAND

Seeding Rate	Plant Stand @ V1	Plant Stand @ Harvest
190,000 seeds/ac	143,000	138,000
160,000 seeds/ac	127,000	117,000
130,000 seeds/ac	97,000	91,000

PRECIPITATION†

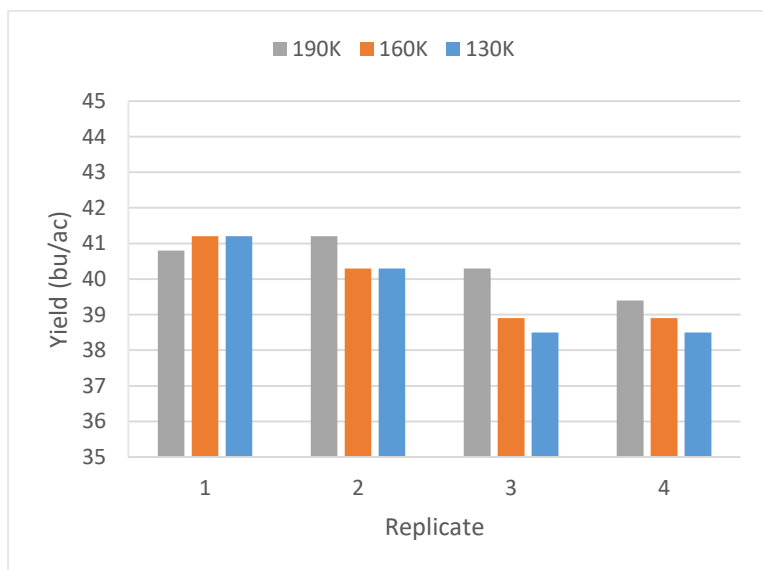
	May	June	July	Aug
Rainfall	15	116	80	21
Normal	47	84	65	58

† Growing season precipitation (mm)

OVERALL YIELD

	Mean (bu/ac)
190,000 seeds/ac	40.4
160,000 seeds/ac	39.8
130,000 seeds/ac	39.6
P-Value	0.1340
CV	2.7%
Significance	No

STRIP YIELD



Summary: There was no significant yield difference between soybeans planted at 190,000 seeds/ac, 160,000 seeds/ac, and 130,000 seeds/ac on 15" row spacing. Soybean plant stand ranged from a high of 143,000 plants/ac to a low of 97,000 plants/ac when assessed at growth stage V1.