

Soybean Seeding Rate Trial

Trial ID: 2018-SP05 – R.M. of Rhineland

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	Rhineland
Previous Crop	Spring Wheat
Soil Texture	Clay
Tillage	Conventional
Seeding Equipment	Planter
Planting Date	May 10, 2018
Variety	PRO 2525R2
Row Spacing	30"
Harvest Date	September 7, 2018

SEEDING RATE VS. PLANT STAND

Seeding Rate	Plant Stand @ V1	Plant Stand @ Harvest
190,000 seeds/ac	183,000	179,000
160,000 seeds/ac	155,000	154,000
130,000 seeds/ac	128,000	125,000

PRECIPITATION†

	May	June	July	Aug
Rainfall	34	44	39	42
Normal	56	85	75	66

† Growing season precipitation (mm)

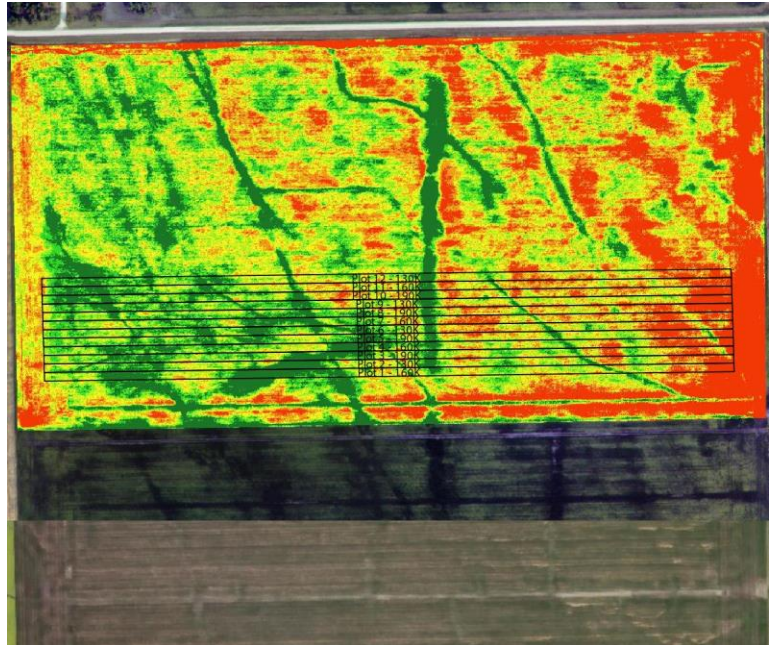
OVERALL YIELD

	Mean (bu/ac)
190,000 seeds/ac	36.7 a*
160,000 seeds/ac	35.9 b
130,000 seeds/ac	35.3 b
P-Value	0.0014
CV	1.9%
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 planted at 190,000 seeds/ac compared to 160,000 seeds/ac and 130,000 seeds/ac on 30" row spacing. Soybean plant stand ranged from a high of 183,000 plants/ac to a low of 128,000 plants/ac when assessed at growth stage V1.

NDVI FIELD IMAGE – AUGUST 11, 2018



STRIP YIELD

