

Soybean Seeding Rate Trial

Trial ID: 2018-SP12 – R.M. of Wallace-Woodworth

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	Wallace-Woodworth
Previous Crop	Annual Rye Grass
Soil Texture	Clay Loam
Tillage	No-till
Seeding Equipment	Planter
Planting Date	May 28, 2018
Variety	P006T78R
Row Spacing	15"
Harvest Date	October 16, 2018

SEEDING RATE VS. PLANT STAND

Seeding Rate	Plant Stand @ V1	Plant Stand @ Harvest
190,000 seeds/ac	153,000	142,000
160,000 seeds/ac	142,000	135,000
130,000 seeds/ac	103,000	101,000

PRECIPITATION†

	May	June	July	Aug
Rainfall	63	97	58	24
Normal	48	76	65	58

† Growing season precipitation (mm)

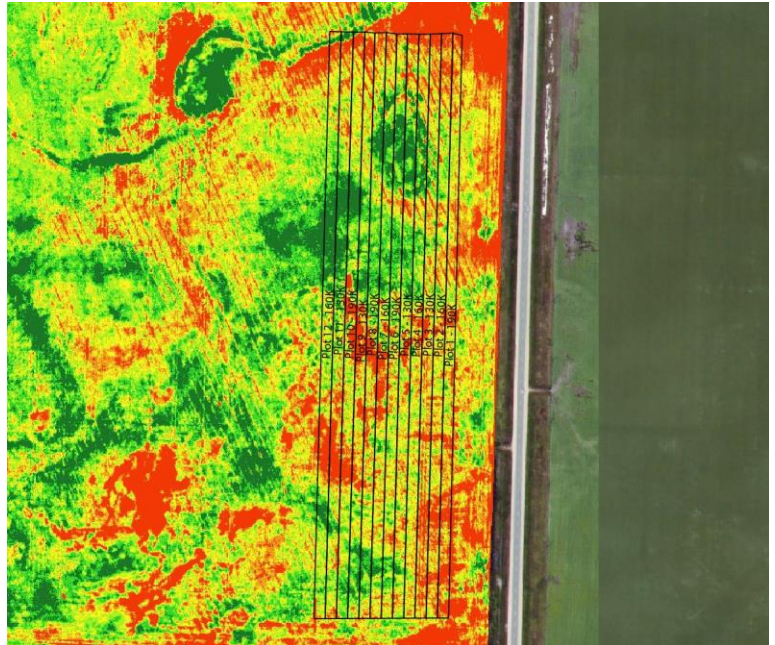
OVERALL YIELD

	Mean (bu/ac)
190,000 seeds/ac	27.4 a
160,000 seeds/ac	26.8 ab
130,000 seeds/ac	26.0 b
P-Value	0.0254
CV	4.7%
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 130,000 seeds/ac, but no significant difference compared to 160,000 seeds/ac on 10" row spacing. Soybean plant stand ranged from a high of 153,000 plants/ac to a low of 103,000 plants/ac when assessed at growth stage V1.

NDVI FIELD IMAGE – AUGUST 11, 2018



STRIP YIELD

