Soybean Seed Treatment Trial

Trial ID: 2018-SST07 – R.M. of Gilbert Plains

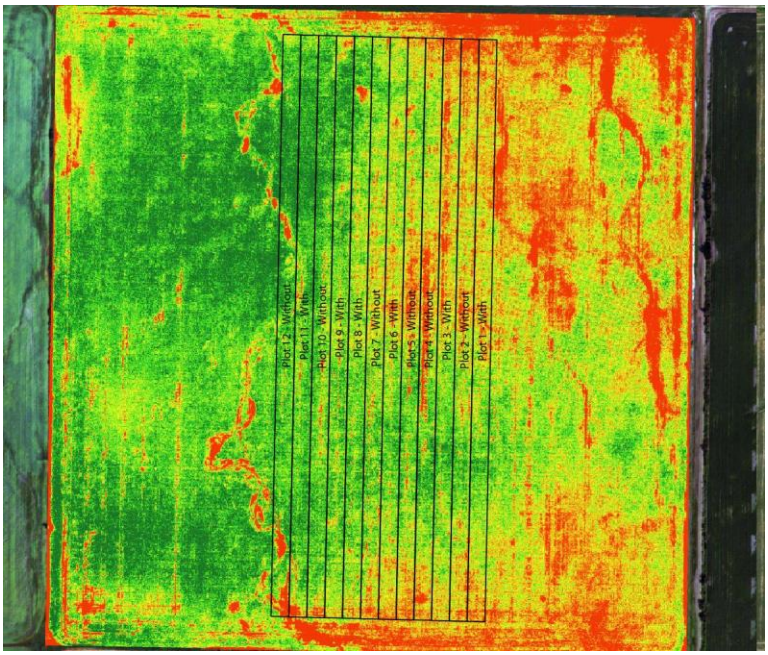
Objective: Quantify the agronomic and economic impacts of a seed treatment in soybean fields. A fungicide and insecticide seed treatment was compared to an untreated check strip.

TRIAL INFORMATION

Treatment	Cruiser Maxx Vibrance Beans
Rural Municipality	Gilbert Plains
Previous Crop	Canola
Soil Description	Loam to Clay Loam
Tillage	No-Till
Planting Date	May 23, 2018
Variety	22-60RY
PRR Gene	Rps 1c
Row Spacing	9.8”
Seeding Rate	195,000 seeds/ac
Plant Stand @V1 (With)	166,000 plants/ac
Plant Stand @V1 (W/O)	165,000 plants/ac
Harvest Date	October 19, 2018

With = Treated, W/O = Untreated, PRR = Phytophthora Root Rot

NDVI FIELD IMAGE – AUGUST 16, 2018

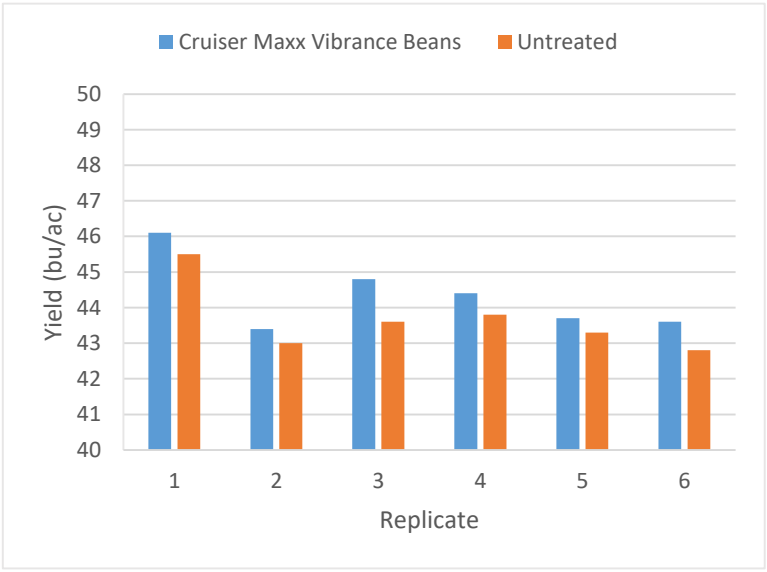


PRECIPITATIONǂ

	May	June	July	Aug
Rainfall	48	100	60	7
Normal	54	87	73	63

ǂ Growing season precipitation (mm)

STRIP YIELD



OVERALL YIELD

	Mean (bu/ac)
Cruiser Maxx Vibrance Beans	44.3
Untreated	43.7
Yield Difference	0.6
P-Value	0.0029
CV	2.3%
Significance	**Yes**

Summary: There was a significant yield difference of 0.6 bu/ac between Cruiser Maxx Vibrance Beans seed treatment and untreated check strips. That plant stand at growth stage V1 (first trifoliate) was not significantly difference between treatments. Fusarium root rot was present at growth stage V1 in all treatments.

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