Dry Bean Nitrogen Fertility Trial

Trial ID: 2019DBN01 – R.M. of Norfolk Treherne

Objective: Quantify the agronomic impacts of nitrogen fertilizer rates in dry beans

Summary: There was no significant dry bean yield difference between 0 lb N/ac, 70 lb N/ac and 140 lb N/ac.

Trial Information

Treatment	0 lbs vs 70 lbs vs 140 lbs
Rural Municipality	Norfolk Treherne
Soil Texture	Loamy Fine Sand
Previous Crop	Corn
Tillage	Conventional
Spring Soil N (0-24")	20 lb/ac
Seeding Date	May 28
Variety	T9905
Seeding Rate	96 240 seeds/ac
Row Spacing	20"
Plant Stand @ VC	52 000 plants/ac
Harvest Date	October 8

Precipitation (mm)

	May	June	July	August
Normal	58	77.1	76.5	58.7
Rainfall	46.3	31.2	102.6	32.1

Nodulation

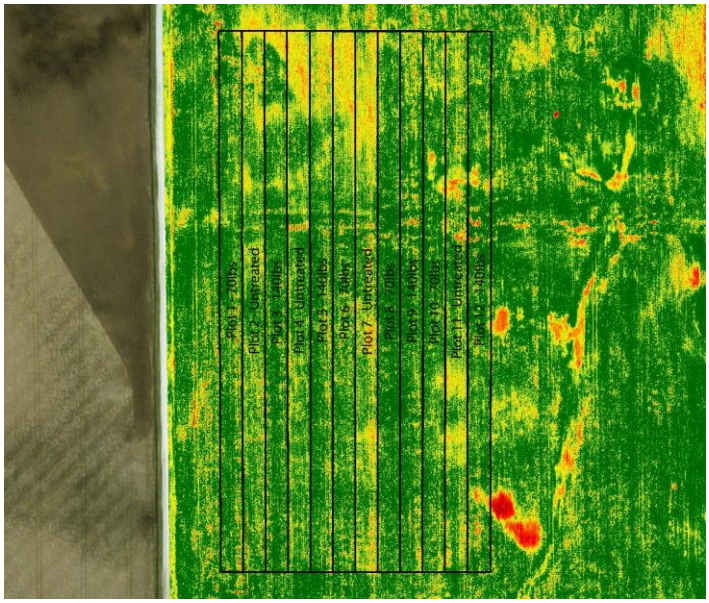
	Average Nodulation Rating @R2ǂ
0 lb N/ac	3.5
70 lb N/ac	3.5
140 lb N/ac	2.9

ǂ 0 = no nodules, 1 = Poor (<5/plant), 2 = Fair (<10/plant), 3 = Good (<20/plant), 4 = Excellent (>20/plant)

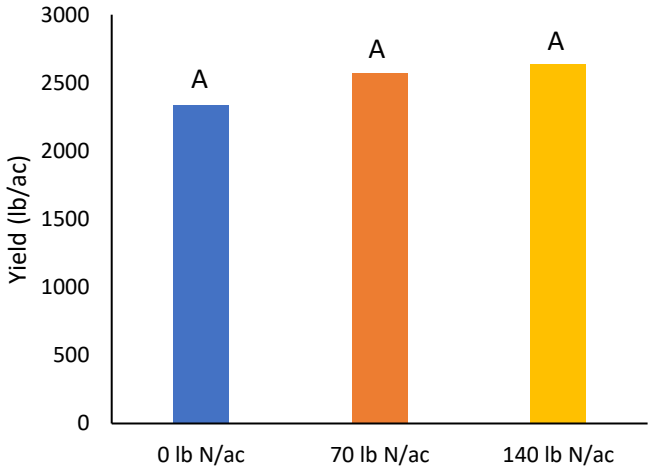
Overall Yield

	Mean (bu/ac)
0 lb N/ac	2339
70 lb N/ac	2570
140 lb n/ac	2642
P-Value	0.0841
CV	9.4%
Significance	**No**

NDVI Field Image – July 17, 2019



Yield by Treatment



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