

Dry Bean Nitrogen Fertility Trial

Trial ID: 2019DBN03 – R.M. of Rhineland

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

Summary: There was no significant dry bean seed yield difference between nitrogen fertilizer rates.

Trial Information

Treatment	0lbs vs 40lbs vs 70lbs vs 140lbs
Rural Municipality	Rhineland, RM of
Soil Texture	Clay Loam
Previous Crop	Corn
Tillage	Conventional
Spring Soil N (0-24")	58 lb N/ac
Seeding Date	May 20
Variety	Windbreaker Pinto
Seeding Rate	96 000 seeds/ac
Row Spacing	22"
Plant Stand @ VC	73 000 plants/ac
Harvest Date	September 19

Precipitation (mm)

	May	June	July	August
Normal	56.4	85.2	75.4	65.5
Rainfall	44.9	44.3	59.9	38.4

Nodulation

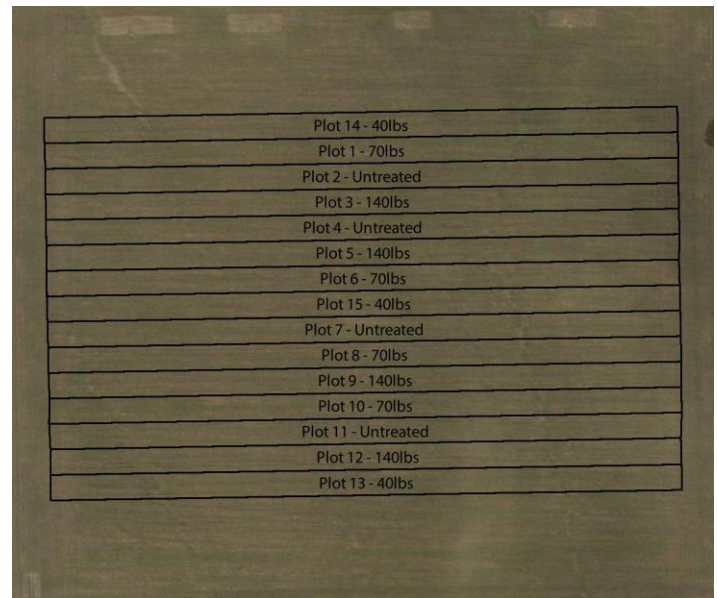
	Average Nodulation Rating @R1 [†]
0 lb N/ac	3.9
40 lb N/ac	3.8
70 lb N/ac	3.6
140 lb N/ac	2.9

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

Overall Yield

	Mean (lb/ac)
0 lb N/ac	1825
40 lb N/ac	1893
70 lb N/ac	1967
140 lb N/ac	1978
P-Value	0.0529
CV	6.4%
Significance	No

Field Image[†]



† No 2019 field imagery available due to conflicts with nearby airfield

Yield by Treatment

