

**NDSU Carrington Research Extension Center  
2006  
Dry Edible Bean Inoculation Trial - Commercial Product Evaluation**

Trmt. ID	Product Type	Brand - Company	Product Type	Nodule	Nodule	Seeds /	1000	Test	Seed
				Number	Mass	Pound	KWT	Weight	Yield
				0 to 9	0 to 9		gram	lb/bu	lb/ac
1	Control	NA	NA	0.0	0.0	1608	283	54.3	1262
2	N100	NA	Ammonium Nitrate Fertilizer	0.0	0.0	1641	277	53.5	1433
3	NitraStik-D	Nitrogen	Powder	0.7	0.7	1640	277	53.8	1272
4	NitraStik + NI-50D-1	Nitrogen	Powder + Liquid	1.0	0.7	1640	278	53.6	1388
5	NitraStik + NI=50D-2	Nitrogen	Powder + Liquid	0.8	0.7	1624	280	53.6	1432
6	NaturesAid	INTX Microbials	Granular	0.2	0.2	1595	286	53.5	1197
7	ProTec	Pro Coat Technologies	Liquid	1.3	0.7	1606	284	54.1	1108
8	QuickRoots	TJ Technologies	Liquid	0.7	0.7	1599	285	53.8	1354
9	QuickRoots + Inoc(NitraStik)	TJ Technologies	Liquid + Powder	1.5	0.7	1640	277	53.6	1212
10	QuickRoots + 1/2 Rate Inoc	TJ Technologies	Liquid + Powder	1.2	0.8	1605	283	53.3	1398
			MEAN	0.7	0.5	1619	281	53.7	1305
			C.V.%	113.0	87.8	4.8	4.8	1.3	20.2
			LSD.05	1.0	0.5	NS	NS	NS	NS
			LSD.01	NS	0.7	NS	NS	NS	NS
			#REPS	6	6	6	6	6	6

\*\* Planting Date = June 2; Harvest Date = October 5; Previous Crop = Flax; Dry Bean Cultivar = Maverick pinto.

\*\* This field study sustained a level of hail damage on August 13 that resulted in moderate defoliation and minor stem damage.

\*\* Data on nodule number and nodule mass were scored on a basis of 0 to 9 where 0 equal zero/no to a 9 equating profuse/large.

\*\* Soil test indicated 40 lbs of available N in top 2 feet of soil profile.

Phosphorus = 10 ppm

Soil pH = 7.5%

Organic Matter = 2.8%

Potassium = 183 ppm

Soluble salts = 0.28 mmho/cm