

**NDSU Carrington Research Extension Center
2006 Soybean Inoculation Trial - Commercial Product Evaluation**

Soybean Inoculation Evaluation											Carrington
Product / Treatment	Brand - Company	Product Type	Plant Stand ft ⁻²	Nodule Number 0 to 9	Nodule Mass 0 to 9	Plant Height inch	Seeds/ Pound	Oil Content %	Protein Content %	Test Weight lb/bu	Seed Yield bu/ac
Control	NA	NA	2.7	0.7	1.0	27.5	2606	19.0	36.8	56.7	19.1
150 #N (Soil+Fert)	NA	NA	3.0	0.0	0.0	27.3	2578	18.5	38.2	57.0	20.6
50 #N (Soil+Fert)	NA	NA	2.7	0.0	0.0	26.9	2661	18.8	37.4	57.3	18.8
75 #N (Soil+Fert)	NA	NA	3.1	0.0	0.0	27.4	2620	18.8	37.5	57.0	19.7
Non-Nodulating Bean	NA	NA	1.7	0.0	0.0	25.6	3052	17.8	38.4	57.6	15.4
ABM Exp. #EKR	Advanced Biological	Dry+Liquid	2.7	1.0	1.2	29.0	2716	19.0	36.8	56.8	21.5
Excalibre	Advanced Biological	Dry+Liquid	2.9	1.5	3.0	29.7	2706	19.0	36.7	57.3	21.6
Apex Extra	Agribiotics	Liquid	2.1	2.2	1.5	26.9	2540	18.9	37.2	57.3	21.0
PulseR	Agribiotics	Dry	2.9	2.7	1.8	29.3	2654	18.7	36.9	57.3	20.9
BUExp-SC1	Becker Underwood	Liquid	2.8	2.8	1.7	28.2	2631	18.6	37.9	57.3	18.7
BUExp-SC2	Becker Underwood	Liquid	2.8	3.5	1.7	27.8	2677	18.9	37.3	56.5	20.4
BUExp-SC4	Becker Underwood	Liquid	2.7	1.3	2.3	27.5	2635	18.9	37.2	57.0	19.9
BUExp-SC5	Becker Underwood	Liquid	2.7	2.7	2.2	28.0	2646	19.0	36.8	57.2	20.2
BUExp-SC6	Becker Underwood	Liquid	3.0	1.7	1.8	28.1	2687	18.9	36.7	57.3	19.4
BUExp-SC7	Becker Underwood	Liquid	3.3	3.2	1.5	29.8	2705	18.9	37.0	57.3	21.1
Nod+	Becker Underwood	Liquid	2.5	2.5	2.2	28.0	2637	18.9	37.3	57.2	20.3
Nod+ + Extender	Becker Underwood	Liquid	2.6	3.5	1.8	26.7	2612	18.8	37.1	57.4	20.3
Vault	Becker Underwood	Liquid	2.6	3.5	1.8	25.5	2643	19.1	36.9	56.9	20.0
SoySuperb	Brett-Young		3.1	2.5	1.8	27.6	2701	18.8	36.7	57.0	21.4
N-charge	INTX Microbials	Peat	2.9	1.8	1.3	28.0	2702	19.0	36.7	57.1	21.5
Primo	INTX Microbials	Liquid	2.9	1.7	1.3	28.3	2616	19.0	37.1	56.9	19.3
NI-50S-4	Nitrogen	Liquid	2.6	2.8	0.8	27.2	2628	18.9	37.1	57.3	19.7
NI-50S-5	Nitrogen	Liquid	2.7	3.8	1.3	28.1	2590	18.9	36.9	57.4	21.6
NI-50S-6	Nitrogen	Liquid	3.5	4.2	1.8	26.7	2665	18.8	37.4	57.5	19.8
NI-50S-7	Nitrogen	Liquid	2.5	3.2	1.7	26.6	2536	18.8	37.3	57.5	19.8
Optimize	Nitrogen	per label	2.8	2.5	1.5	30.0	2700	18.9	37.2	57.2	21.8
TagTeam Liq	Philom Bios	Liquid	2.9	2.0	2.5	30.0	2680	19.0	36.9	57.0	21.0
Protec	Pro Coat Technologies	Peat	3.3	3.0	1.7	28.1	2688	18.9	36.8	57.3	21.1
TerraMax AS-ST	TerraMax	Liquid	2.7	2.3	2.5	26.8	2661	19.0	36.8	57.2	20.0
TerraMax +Z	TerraMax	Liquid	2.6	1.3	2.0	28.8	2636	19.0	36.6	57.3	21.8
TerraMax MicroAS-St	TerraMax	Granular	3.3	1.0	2.0	27.6	2570	19.0	36.7	57.4	21.9
QuickRoots+1/2rCellTech	TJ Technologies	Liquid	3.1	1.3	1.7	26.6	2719	18.8	37.1	56.9	18.5
QuickRoots+CellTech	TJ Technologies	Liquid	2.8	1.7	2.0	28.9	2659	18.8	36.8	57.3	19.3
QuickRoots	TJ Technologies	Liquid	2.8	1.0	2.8	27.3	2702	18.8	36.9	57.1	19.3
		MEAN	2.8	2.0	1.6	27.8	2661	18.9	37.1	57.2	20.2
** All data based on 6 replications.		C.V.%	21.1	60.1	55.8	10.9	4.2	1.4	1.6	0.9	11.8
		LSD.05	0.6	1.4	1.0	NS	126	0.3	0.7	NS	2.7

**** Planting Date = May 26; Harvest Date = September 28; Previous Crop = Flax; Soybean Cultivar = Roughrider RG405RR.**

** 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