

**NDSU Carrington Research Extension Center
2008**

2008 Soybean Inoculation Trial - Commercial Product Evaluation

Carrington

Trmt. ID	Treatment Code	Company	Form.	Plant Stand	Nodule Number	Nodule Mass	Vigor at V1	Vigor at V4	Seeds/ Pound	1000 KWT	Oil Content	Seed Protein	Test Weight	Seed Yield	
				ft ⁻²	# plant	gram / 5 plants	1 to 5	1 to 5		gram	%	%	lb/bu	bu/ac	
1	60lb-N	NA	NA	NA	6.33	7.5	0.118	3.2	3.3	3721	122	18.1	32.7	56.4	31.5
2	BUEXP-SC1	Becker Underwood	Liquid	5.0 fl oz / cwt	5.90	44.0	0.347	3.0	3.0	3594	127	17.1	35.9	56.3	33.8
3	BUEXP-SC2	Becker Underwood	Liquid	5.0 fl oz / cwt	6.48	11.5	0.135	3.5	3.2	3661	124	17.9	33.4	56.5	31.3
4	BUEXP-SC3	Becker Underwood	Liquid	5.0 fl oz / cwt	5.98	52.5	0.365	3.7	3.3	3463	131	17.4	36.3	56.2	36.7
5	Check	NA	NA	NA	6.48	9.2	0.147	3.0	3.0	3652	124	18.6	30.7	56.3	31.0
6	Excalibre	Advanced Biological Mar	Liquid	1.2 fl oz / cwt	5.74	16.3	0.217	2.8	2.8	3728	122	18.1	32.6	56.3	32.1
7	Excalibre-7	Advanced Biological Mar	Liquid		6.53	27.2	0.263	3.3	3.2	3753	121	18.4	32.0	56.3	32.7
8	ExcalibreQR	Advanced Biological Mar	Liquid	1.4 fl oz / cwt	7.07	11.0	0.137	3.3	3.2	3764	121	18.0	32.6	56.6	31.3
9	ExcalibreQR-7	Advanced Biological Mar	Liquid		6.77	10.0	0.168	3.2	3.3	3790	120	17.7	33.9	56.3	32.0
10	LCO Foliar	EMD Crop Biosciences	Liquid		6.01	10.7	0.080	3.0	2.8	3691	123	17.9	32.7	56.2	31.9
11	N-Charge	INTX Microbials	Peat	2.75 oz / 50 lbs	6.48	28.5	0.218	3.5	3.2	3638	125	17.8	34.4	56.2	36.6
12	N-Row	INTX Microbials	Granular	6.5 lbs / acre	5.85	13.5	0.148	3.0	3.0	3632	125	17.7	33.8	56.2	34.7
13	Optimize	EMD Crop Biosciences	Flowable		6.09	59.3	0.405	3.2	3.2	3538	129	17.3	35.7	56.2	37.4
14	Primo	INTX Microbials	Liquid	2.1 fl oz / 50 lbs	5.22	54.3	0.352	3.2	3.0	3641	125	17.4	35.3	56.2	35.9
15	So-Fast	Loveland	Peat	2.8 oz / cwt	5.81	36.8	0.308	3.2	3.0	3524	129	17.7	34.9	56.1	36.5
16	Soil Implant	EMD Crop Biosciences	Granular	6.5 lbs / acre	6.07	18.3	0.210	3.3	3.0	3638	125	17.5	34.8	56.4	32.9
17	SoySuperb	Brett Young	Liquid	1.75 fl oz / 50 lbs	5.48	9.7	0.173	3.3	3.0	3703	123	17.9	33.5	56.5	31.9
18	Vault LVL	Becker Underwood	Liquid	3.14 fl oz / cwt	6.42	13.8	0.260	3.0	3.2	3637	125	17.4	34.3	56.0	31.6
MEAN					6.15	24.1	0.225	3.2	3.1	3652	124.5	17.8	33.9	56.3	33.5
C.V.%					15.2	65.8	72.6	18.1	18.2	3.1	3.2	3.5	5.5	0.8	8.6
LSD.05					NS	18.3	0.188	NS	NS	132	4.6	0.7	2.1	NS	3.3
LSD.01					NS	24.2	NS	NS	NS	176	6.2	NS	2.8	NS	4.4
Pr > F					0.1317	0.0001	0.0136	0.6304	0.9685	0.0002	0.0002	0.0363	0.0002	0.7572	0.0001
#REPS					6	6	6	6	6	6	6	6	6	6	6

Planting Date = June 2 ; Harvest Date = October 17 ; Previous Crop = Spring Wheat.

** Soil test indicated 33 lbs. of available N in top 2 feet of soil profile.

Phosphorus = 7 ppm

Organic Matter = 2.8%

Soil pH = 7.2%

Potassium = 205 ppm

Soluble salts = 0.25 mmho/cm