

## 2007 Soybean Inoculation Trial - Commercial Product Evaluation

### Carrington

Product/Treatment	Brand-Company	Product type	Plant Stand plant/ac	Days to Bloom	Days to		Plant Ht at Harvest cm	Lodging	Plant Biomass g/plant	Root Biomass g/plant	Nodule Number No./plant	Nodule Mass g/plant	Protein %	Oil %	Seeds/ pound	Test Weight lb/bu	Seed Yield bu/ac
					Canopy Closure	Days to PM											
Control	NA	NA	160266	37.2	37.3	107.7	94.3	0.0	4.95	0.82	1.3	0.020	32.9	17.0	3572	58.1	46.1
110 lb N (soil + Fert)	NA	NA	152679	37.3	37.2	107.8	100.0	0.0	6.28	1.00	1.0	0.011	32.4	17.0	3481	58.1	48.8
Dyna-Start	Loveland Products, Inc.	Liquid	169749	37.3	37.2	108.7	98.5	0.0	5.25	0.93	8.4	0.045	34.7	16.4	3358	57.8	51.4
Dyna-Start + Dyna-Start Pro	Loveland Products, Inc.	Liquid	182077	37.0	37.0	108.3	104.0	0.0	5.35	0.98	13.3	0.070	34.3	16.6	3266	57.9	55.0
Dyna-Start + LI 6194	Loveland Products, Inc.	Liquid	175439	37.2	37.8	108.4	94.8	0.0	5.05	0.77	8.5	0.058	34.8	16.4	3400	58.1	54.9
Excalibre	Advanced Biological	Dry + Liquid	171053	37.2	37.0	108.0	100.5	0.0	5.88	1.10	2.5	0.021	33.0	16.8	3458	57.6	51.3
Myconate	Plant Health Care Inc.	Liquid	175439	37.8	38.3	107.8	96.5	0.0	5.42	1.13	0.7	0.009	32.6	17.0	3502	57.6	47.2
Nod+	Becker underwood	Liquid	177810	38.2	38.3	107.3	90.5	0.0	4.67	0.78	11.5	0.058	34.5	16.5	3545	57.7	49.4
Nod+ plus Extender	Becker underwood	Liquid	152679	37.3	37.8	107.8	96.2	0.0	5.65	0.97	9.5	0.063	34.4	16.5	3515	57.8	51.1
Vault	Becker underwood	Liquid	169275	37.3	37.8	108.0	96.7	0.0	5.60	0.87	8.7	0.051	34.3	16.7	3529	58.1	50.4
Optimize	EMD Crop Bioscience	Liquid	148412	37.2	37.2	107.7	96.2	0.0	7.02	1.18	11.8	0.072	34.2	16.7	3521	57.6	49.6
Cell Tech	EMD Crop Bioscience	Liquid	162162	37.5	38.3	107.5	93.5	0.0	4.83	0.82	9.1	0.064	34.9	16.4	3572	58.1	47.9
Protec + Nitrogen S	Pro Coat Technologies	Peat	183658	37.7	37.8	108.8	100.0	0.0	4.72	0.77	6.0	0.045	34.8	16.4	3342	57.2	51.2
		Mean	167746	37.4	37.6	108.0	97.1	0.0	5.44	0.93	7.1	0.045	34.0	16.6	3466	57.8	50.3
		C.V.%	11.9	2.0	4.5	1.0	9.9	-	25.4	25.5	39.7	67.1	3.5	2.2	5.4	1.3	10.6
		LSD.05	23085	NS	NS	NS	NS	-	NS	0.3	3.3	0.035	1.4	0.4	NS	NS	NS

\*\* Planting Date = June 5; Harvets Date = October 22; Previous Crop = Wheat; Field Pea Cultivar = RG601RR

\*\* All seeds were pre-treated with ApronMAXX RTA prior to inoculation.

\*\* Site did not have previous soybean history.

\*\* Plant samples for biomass and nodule menasurements were collected at early bloom.

\*\* Soil test indicated 40 lbs of vaaible N in top 2 feet of soil profile. Phosphorus = 6 ppm, Potassium = 179 ppm, Organic Matter = 3.1, Soil pH = 7.6, and Soluble Salts = 0.47 mmho/cm