NDSU Carrington Research Extension Center
2006
Field Pea Inoculation Trial - Commercial Product Evaluation

Trmt. ID	Product Type	Brand - Company	Product Type	Emerged Stand	Nodule Number	Nodule Mass	Seed Protein	Seeds/ Pound	1000 KWT	Test Weight	Seed Yield
				ft^{-2}	0 to 9	0 to 9	%		gms	lbs/bu	bu/ac
1	Control	NA	NA	3.8	1.0	1.0	23.6	1971	230	65.7	38.5
2	60 lbs N Fertilizer	NA	mmomium Nitrate Fertiliz	3.7	0.3	0.3	24.6	1929	236	63.8	43.2
3	BioRhiz	Becker Underwood	Liquid	4.1	3.0	2.7	24.7	1931	235	64.5	44.1
4	Pulse R	Agribiotics Inc.	Peat	3.6	3.7	4.3	24.2	1981	230	64.4	43.4
6	BU Expt PCL Gran.	Becker Underwood	Granular	3.5	5.2	4.0	24.7	1887	241	64.6	44.1
7	Cell-Tech C	Nitrogen	Liquid	3.7	4.2	5.2	24.5	1894	240	64.3	46.8
8	Optimize Pulse + Add.	Nitrogen	Liquid	3.7	1.2	1.0	24.4	1917	237	64.1	43.7
9	Soil Implant	Nitrogen	Granular	3.8	2.5	2.3	24.2	1961	232	64.2	45.4
10	NI-50C-5	Nitrogen	Granular	3.8	2.3	2.2	24.6	1926	236	64.2	43.6
11	NI-65d-5	Nitrogen	Granular	4.3	5.2	3.3	24.1	1972	230	64.4	46.2
12	NI-50C-9	Nitrogen	Granular	3.9	2.8	2.0	24.0	1941	234	64.2	45.4
13	N-Prove Liquid	Philom Bios	Liquid	3.8	3.2	4.0	24.5	1908	238	66.7	39.6
14	N-Prove Peat	Philom Bios	Peat	3.1	1.0	1.0	24.4	1926	236	64.3	44.9
15	Primo	INTX Microbials	Liquid	3.8	2.3	1.8	24.3	1891	240	64.1	43.5
19	So-Fast Granule	UAP	Granular	3.8	2.7	2.8	24.2	1882	241	64.4	44.5
20	Protec + Pulse R	Pro Coat Technologies	Pre.Inc. + Peat	3.5	3.3	4.0	24.1	1891	240	64.3	42.8
21	QuickRoots	TJ Technologies	Liquid	3.8	1.2	1.2	24.4	1876	242	63.5	45.4
22	QR + CellTech C	TJ Technologies	Liquid	3.8	1.3	1.2	23.9	1907	238	64.5	44.9
23	QR + 1/2 CellTech C	TJ Technologies	Liquid	3.6	0.8	0.8	23.9	1919	237	64.6	44.1
24	Apex	Agribiotics Inc.	Liquid	3.7	2.2	3.5	24.5	1939	234	64.4	44.2
			MEAN	3.7	2.5	2.4	24.3	1922	236	64.5	43.9
			C.V.%	14.9	59.8	60.4	3.6	3.0	2.9	2.5	8.3
			LSD.05	NS	1.7	1.7	NS	67	7.9	NS	4.2
			LSD.01	NS	2.2	2.2	NS	NS	NS	NS	NS
			#REPS	6	6	6	6	6	6	6	6

Planting Date = May 16 ; Harvest Date = August 3 ; Previous Crop = Flax

** DS Admiral yellow pea cultivar utilized in field trial.

** 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. Assessments made on July 11.

** Soil test indicated 40 lbs of available N in top 2 feet of soil profile.
Organic Matter = 2.8%
Phosphorus = 10 ppm
Soil pH = 7.5%
Potassium = 183 ppm
Soluble salts = 0.28 mmho/cm