

2007 Field Pea Inoculation Trial - Commercial Product Evaluation

Carrington

Product/Treatment	Brand-Company	Product type	Plant Stand plant/ac	Days to Bloom	Bloom Duration	Days to Canopy Closure	Days to Canopy PM	Canopy Ht at Harvest cm	Plant Biomass g/plant	Root Biomass g/plant	Nodule Number No./plant	Nodule Mass g/plant	Protein %	Seeds/ pound	Test Weight lb/bu	Seed Yield bu/ac
Control	NA	NA	331531	48.0	7.3	46.3	73.5	38.3	2.6	0.1	7.8	0.050	23.6	2518	65.2	24.3
110 lb N (soil + Fert)	NA	NA	336842	48.3	7.0	47.0	73.8	43.3	2.7	0.1	6.0	0.023	23.8	2404	64.9	23.2
Nodulator	Becker Inderwood	Liquid	320530	47.7	7.7	46.8	72.7	45.5	3.3	0.1	19.8	0.088	22.8	2391	65.0	28.8
Nodulator	Becker Inderwood	Peat	325841	47.7	7.8	46.7	73.2	40.2	3.0	0.1	30.3	0.108	23.3	2342	64.9	30.9
Nodulator	Becker Inderwood	Granule	311806	48.0	7.3	47.8	73.5	42.0	2.6	0.1	17.1	0.081	22.6	2437	65.2	26.7
Optimize	EMD Crop Bioscience	Liquid	325462	48.3	7.3	46.3	74.3	43.3	2.5	0.1	33.3	0.075	23.0	2343	64.9	29.2
Protec	Pro Coat Technologies	Peat	308392	48.2	7.3	46.7	73.8	44.0	2.5	0.1	6.2	0.043	23.6	2350	64.9	28.1
Tag Team	Philom Bios	Granule	322807	48.2	7.5	46.7	74.3	44.3	3.2	0.2	19.1	0.049	23.7	2272	64.9	28.9
Mean			324476	48.0	7.5	46.8	73.7	43.2	2.8	0.1	16.3	0.062	23.4	2370	65.0	28.2
C.V.%			7.4	1.1	7.1	2.0	1.5	10.4	19.8	34.2	52.6	49.2	3.7	6.9	0.5	16.8
LSD.05			NS	NS	NS	NS	NS	5.26	0.66	NS	10	0.035	1.02	NS	NS	5.54
# Obs.			6	6	6	6	6	6	6	6	6	6	6	6	6	6

** Planting Date = May 11; Harvets Date = July 31; Previous Crop = Wheat; Field Pea Cultivar = DS Admiral

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

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

** Soil test indicated 40 lbs of available 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