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80/R/FE/1 Fenugreek N and *Rhizobium*

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80/R/FE/1

FENUGREEK

N AND RHIZOBIUM

Object: To study the effects of inoculation with Rhizobium and times of applying nitrogen fertiliser on nodulation and yield of fenugreek (*Trigonella foenum-graecum*) - Long Hoos III O & E S.E.

Sponsor: D.P. Yeoman.

Design: 3 randomised blocks of 6 plots.

Whole plot dimensions: 1.52 x 2.13.

Treatments: All combinations of:

1. INOCULUM Inoculum applied to the seed:
 NONE None
 RHIZOBIUM Rhizobium meliloti, strain 2012
2. N Nitrogen fertiliser (kg N) and times of application:
 0 None
 150 S 150 to the seedbed, on 9 April
 150 F 150 at flowering, on 18 June

NOTE: Seed was sown by hand in rows 38 cm apart, seed spaced 5 cm apart in the row.

Basal applications: Fungicide: Benomyl at 0.56 kg in 340 l applied twice.
Insecticide: Permethrin at 0.15 kg in 340 l. Pirimicarb at 0.14 kg in 340 l. Desiccant: Diquat at 0.59 kg ion in 340 l.

Seed: Barbara.

Cultivations, etc.: - Ploughed: 14 Nov, 1979. Power harrowed, seed sown: 10 Apr, 1980. Permethrin applied: 4 June. Pirimicarb applied: 27 June. Benomyl applied: 16 July, 14 Aug. Diquat applied: 21 Oct. Harvested by hand: 30 Oct. Previous crops: Potatoes 1978, w. wheat 1979.

80/R/FE/1

GRAIN TONNES/HECTARE

***** TABLES OF MEANS *****

	N	0	150 S	150 F	MEAN
INOCULUM					
NONE		0.76	1.73	1.65	1.38
RHIZOBUM		1.02	1.87	1.45	1.45
MEAN		0.89	1.80	1.55	1.41

***** STANDARD ERRORS OF DIFFERENCES OF MEANS *****

TABLE	INOCULUM	N	INOCULUM N
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SED	0.121	0.148	0.210

***** STRATUM STANDARD ERRORS AND COEFFICIENTS OF VARIATION *****

STRATUM	DF	SE	CV%
BLOCK.WP	10	0.257	18.2

GRAIN MEAN DM% 89.8

PLOT AREA HARVESTED 0.00012