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Yields of the Field Experiments 1982

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82/R/FE/1 N and *Rhizobium* - Fenugreek

Rothamsted Research

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82/R/FE/1

FENUGREEK

N AND RHIZOBIUM

Object: To study the effects of inoculation with Rhizobium, application of insecticide and times of applying nitrogen fertilizer on nodulation and yield of fenugreek (*Trigonella foenum - graecum*) - Long Hoos V 8.

Sponsor: D.P. Yeoman.

Design: 2 randomised blocks of 12 plots.

Whole plot dimensions: 2.29 x 7.62.

Treatments: All combinations of:-

1. INOCULUM Inoculum applied to the seed:

NONE	None
RHIZOBUM	Rhizobium meliloti, strain 2012, as a peat culture
2. N Nitrogen fertilizer (kg N) and times of application:

0	None
150 S	150 to the seedbed, on 16 Apr, 1982
150 F	150 at flowering, on 14 June
3. INSECTICIDE Insecticide:

NONE	None
PERMETH	Permethrin foliar spray at 0.06 kg in 340 l on 17 May and 26 May

Basal applications: Manures: Chalk at 2.9 t. Muriate of potash at 520 kg.
Weedkillers: Trifluralin at 0.81 kg in 340 l, MCPB at 2.3 kg in 340 l.

Seed: Barbara, sown at 22 kg.

Cultivations, etc.: - Muriate of potash applied: 12 Nov, 1981. Chalk applied: 27 Nov. Ploughed: 6 Jan, 1982. Spring-tine cultivated, trifluralin applied, spring-tine cultivated twice, seed sown: 16 Apr. MCPB applied: 7 June. Harvested by hand: 28 Oct. Previous crops: Potatoes 1980, s. wheat 1981.

NOTE: Plant counts were made after establishment. Because of prolonged wet weather during October grain germinated in the pod, yields of grain were unobtainable, total above-ground dry matter was substituted.

82/R/FE/1

FORAGE DRY MATTER TONNES/HECTARE

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

N	0	150 S	150 F	MEAN
INOCULUM				
NONE	2.08	4.18	3.90	3.39
RHIZOBUM	3.45	3.53	4.00	3.66
MEAN	2.77	3.85	3.95	3.52

INSCTCDE	NONE	PERMETH	MEAN
INOCULUM			
NONE	3.26	3.51	3.39
RHIZOBUM	3.54	3.77	3.66
MEAN	3.40	3.64	3.52

INSCTCDE	NONE	PERMETH	MEAN
N			
0	2.56	2.97	2.77
150 S	3.98	3.72	3.85
150 F	3.67	4.23	3.95
MEAN	3.40	3.64	3.52

N	0	150 S	150 F
INSCTCDE			
INOCULUM			
NONE	2.02	4.34	3.43
RHIZOBUM	3.10	3.61	3.91

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

TABLE	INOCULUM	N	INSCTCDE	INOCULUM
				N
SED	0.294	0.360	0.294	0.509

TABLE	INOCULUM	N	INOCULUM
	INSCTCDE	INSCTCDE	N
			INSCTCDE
SED	0.416	0.509	0.720

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

STRATUM	DF	SE	CV%
BLOCK.WP	11	0.720	20.5

GRAIN MEAN DM% 59.6

PLOT AREA HARVESTED 0.00021