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83/R/FE/1 N, *Rhizobium* and Pest Control - Fenugreek

Rothamsted Research

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83/R/FE/1

FENUGREEK

N, RHIZOBIUM AND PEST CONTROL

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 IV 4.

Sponsor: D.P. Yeoman.

Design: 2 randomised blocks of 12 plots.

Whole plot dimensions: 2.64 x 8.00.

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 5 May, 1983
 150 F 150 at flowering, on 5 July
3. INSECTICIDE Insecticide:
 NONE None
 PERMETH Permethrin foliar spray at 0.15 kg in 340 l on 13 June

Basal applications: Weedkillers: Trifluralin at 0.81 kg in 220 l. MCPB at 2.1 kg in 220 l. Desiccant: Diquat at 0.84 kg in 220 l.

Seed: Barbara, sown at 22 kg.

Cultivations, etc.: - Ploughed: 17 Jan, 1983. Trifluralin applied, spring-tine cultivated twice, power harrowed, seed sown: 5 May. MCPB applied: 1 July. Desiccant applied: 26 Aug. Combine harvested: 23 Sept. Previous crops: Peas 1981, s. barley 1982.

NOTE: Plant counts were made after establishment. N content of grain was measured.

83/R/FE/1

GRAIN TONNES/HECTARE

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

	N	0	150 S	150 F	MEAN
INOCULUM					
NONE		0.31	0.71	0.32	0.45
RHIZOBUM		0.32	0.56	0.36	0.41
MEAN		0.31	0.63	0.34	0.43

INSCTCDE	NONE	PERMETH	MEAN
INOCULUM			
NONE	0.43	0.46	0.45
RHIZOBUM	0.40	0.42	0.41
MEAN	0.42	0.44	0.43

INSCTCDE	NONE	PERMETH	MEAN
N			
0	0.29	0.33	0.31
150 S	0.60	0.67	0.63
150 F	0.36	0.32	0.34
MEAN	0.42	0.44	0.43

	N	0	150 S	150 F		
INSCTCDE						
NONE		NONE	NONE	NONE	NONE	PERMETH
RHIZOBUM		PERMETH	PERMETH	PERMETH	PERMETH	PERMETH
NONE	0.30	0.32	0.67	0.74	0.32	0.32
RHIZOBUM	0.29	0.34	0.53	0.60	0.40	0.32

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

TABLE	INOCULUM	N	INSCTCDE	INOCULUM
				N

SED	0.029	0.036	0.029	0.050

TABLE	INOCULUM	N	INOCULUM
	INSCTCDE	INSCTCDE	N
			INSCTCDE

SED	0.041	0.050	0.071

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

STRATUM	DF	SE	CV%
BLOCK.WP	11	0.071	16.6

GRAIN MEAN DM% 81.7

PLOT AREA HARVESTED 0.00154