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# Yields of the Field Experiments 1982



Full Table of Content

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

### **Rothamsted Research**

Rothamsted Research (1983) 82/R/FE/1 N and Rhizobium - Fenugreek; Yields Of The Field Experiments 1982, pp 310 - 311 - DOI: https://doi.org/10.23637/ERADOC-1-33

#### 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:-

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:

None

150 S 150 to the seedbed, on 16 Apr, 1982

150 F 150 at flowering, on 14 June

3. INSCTCDE 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	MEA	N	
INOCULUM NONE	2.08	4.18	3.90	3.3	9	
RHIZOBUM	3.45	3.53	4.00			
MEAN	2.77	3.85	3.95	3.5	2	
INSCTCDE INOCULUM	NONE	PERMETH	MEAN			
NONE	3.26	3.51	3.39	9		
RHIZOBUM	3.54	3.77	3.66			
KIIIZODON	3.34	3.77	3.00	•		
MEAN	3.40	3.64	3.52	2		
INSCTCDE N	NONE	PERMETH	MEAN	1		
Ö	2.56	2.97	2.77	7		
150 S	3.98	3.72	3.8			
150 S	3.67	4.23	3.9			
130 F	3.07	4.23	3.3.	,		
MEAN	3.40	3.64	3.5	2		
N	0		150 S		150 F	
INSCTCDE	NONE	PERMETH	NONE	PERMETH	NONE	PERMETH
	NUNE	PERMETH	NUNE	PERMETH	NUNE	PERMETH
INOCULUM	0.00	0.15	4 24	4 01	2 42	4 27
NONE	2.02	2.15	4.34	4.01	3.43	4.37
RHIZOBUM	3.10	3.79	3.61	3.44	3.91	4.09

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

TABLE	INOCULUM	N	INSCTCDE	INOCULUM N
SED	0.294	0.360	0.294	0.509
TABLE	INOCULUM INSCTCDE	N INSCTCDE	INOCULUM 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