

Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1980

[Full Table of Content](#)



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

Rothamsted Research

Rothamsted Research (1981) *80/R/FE/1 Fenugreek N and Rhizobium* ; Yields Of The Field Experiments 1980, pp 316 - 317 - DOI: <https://doi.org/10.23637/ERADOC-1-31>

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
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