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79/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 V O & E. S.

Sponsor: D.P. Yeoman.

Design: 2 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 8 May
 150 F 150 at flowering, on 2 July

Basal applications: Insecticide: Permethrin at 0.15 kg in 340 l.

Seed: Margaret, hand sown, seed spaced 5 cm apart in rows 38 cm apart.

Cultivations, etc.: - Ploughed: 5 Mar, 1979. Spring-tine cultivated twice and rotary cultivated: 1 May. Spring-tine cultivated, seed furrows drawn out, and seed sown: 8 May. Insecticide applied twice: 30 May and 29 June. Harvested (by hand) on 3 and 15 Oct. Previous cropping: Fallow 1977 & 1978.

NOTE: Two harvest dates were necessary because ripening was uneven. INOCULUM NONE (except the combination with N 150 F) and one of the replicates of INOCULUM RHIZOBIUM combinations with N 0 and N 150 S were harvested on 3 Oct. All remaining plots were harvested on 15 Oct.