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Yields of the Field Experiments 1977

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77/R/BE/5 Control of Stem Eelworm - Beans

Rothamsted Research

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77/R/BE/5

SPRING BEANS

CONTROL OF STEM EELWORM

Object: To study the effects of thiabendazole and aldicarb on stem eelworm (*Ditylenchus dipsaci*) and yield - Highfield O & E III.

Sponsor: D.J. Hooper.

Design: 3 randomised blocks of 8 plots

Whole plot dimensions: 2.54 x 9.14.

Treatments:

NEMACIDE Nematicides:

NONE None (Duplicated)

Thiabendazole granules (kg a.i.) placed in the row at sowing:-

TH G 3	3
TH G 6	6
TH G 12	12

Seed dressed with thiabendazole wettable powder (kg a.i.):-

TH S 2.7	2.7
TH S 5.4	5.4

Aldicarb granules (kg a.i.) in the row at sowing:-

AL G 5	5
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NOTE: Many germinating seeds were destroyed by pigeons. The inadvertent omission of weedkiller led to serious weed infestation. Damage from these two causes was so severe that one of the blocks had to be abandoned.

Basal applications: Insecticide: Pirimicarb at 0.14 kg in 280 l.

Seed: Minden, sown at 220 kg.

Cultivations, etc.: - Ploughed: 7 Sept, 1976. Rotary cultivated: 5 Apr, 1977.

Seed sown: 19 Apr. Tractor hoed: 20 June. Insecticide applied: 19 July.

Combine harvested: 29 Sept. Previous crops: Beans 1975 and 1976.

NOTE: Stem height and numbers of stems infected with stem eelworm were assessed during the season. The percentage of infected seed was assessed after harvest.

77/R/BE/5

GRAIN TONNES/HECTARE

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

NEMACIDE	
NONE	0.44
TH G 3	0.50
TH G 6	0.74
TH G 12	0.72
TH S 2.7	1.04
TH S 5.4	0.88
AL G 5	1.61
MEAN	0.80

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

TABLE	NEMACIDE	
SED	0.306	MIN REP
	0.265	MAX-MIN

NEMACIDE
MAX-MIN NONE V ANY OF REMAINDER
MIN REP ANY OF REMAINDER

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

STRATUM	DF	SE	CV%
BLOCK.WP	8	0.306	38.3
GRAIN MEAN DM% 66.8			
PLOT AREA HARVESTED 0.00232			