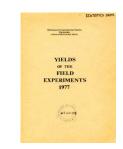
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Yields of the Field Experiments 1977



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Rothamsted Research

Rothamsted Research (1978) 77/R/BE/5 Control of Stem Eelworm - Beans; Yields Of The Field Experiments 1977, pp 377 - 378 - DOI: https://doi.org/10.23637/ERADOC-1-29

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 6 6 7H G 12 12

Seed dressed with thiabendazole wettable powder (kg a.i.):
TH S 2.7 2.7

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

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 1.

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 0.44 NONE 0.50 TH G 3 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 0.80 MEAN

**** 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