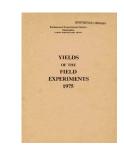
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Yields of the Field Experiments 1975



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Rothamsted Research

Rothamsted Research (1976) 75/ R/CS/116 - Effects of Stem Eelworm - Beans; Yields Of The Field Experiments 1975, pp 207 - 208 - DOI: https://doi.org/10.23637/ERADOC-1-141

75/R/CS/116

EFFECTS OF STEM EELWORM

Object: To study the effects of applying field bean straw infested with two races of stem eelworm (Ditylenchus dipsaci) on the yield and subsequent infestation of field beans - Highfield O and E III.

Sponsor: D.J. Hooper.

The third year, spring beans.

For previous years see 73-74/R/CS/116.

Design: 3 randomised blocks of 6 plots.

Whole plot dimensions: 4.27 x 9.14.

Treatments: All combinations of:-

1. Bean straw infested with stem eelworm (Ditylenchus dipsaci) worked into soil, autumn 1972 only:

Oat race OAT
Giant race GIANT

2. Rate of application of straw (tonnes) to give populations of eelworms:-

RATE

None Single, 3.1 Double, 6.2

O SINGLE DOUBLE

Basal applications: Manures: (0:14:28) at 410 kg placement drilled. Weedkillers: Simazine at 0.84 kg in 220 l. Insecticide: Demeton-s-methyl at 0.25 kg in 450 l.

Seed: Minor, sown at 220 kg.

Cultivations, etc.:- Ploughed: 15 Oct, 1974. Rotary harrowed: 14 Apr, 1975. Seed sown and spring-time cultivated: 21 Apr. Simazine applied: 24 Apr. Tractor-hoed: 27 May and 25 June. Insecticide applied: 10 July. Combine harvested: 29 Aug.

NOTE: Stems showing symptoms of stem eelworm attack were counted on 6 Aug. Samples of seed were taken at harvest to assess seed infestation and soil samples after harvest to assess soil infestation.

75/R/CS/116

GRAIN TONNES/HECTARE

*** TABLES OF MEANS ***

RATE EELWORM	0	SINGLE	DOUBLE	MEAN
OAT GIANT		0.72 0.69	0.54	0.63
MEAN	0.89	C.71	0.62	0.74

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

TABLE	EELWORM	RATE	EELWORM RATE
SED	0.163	0.163	0.230

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

DF SE CV%
BLOCK.WP 11 0.282 38.1

GRAIN MEAN DM% 87.5