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81/R/BE/12 Control of *Pratylenchus* - S. Beans

Rothamsted Research

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81/R/BE/12

SPRING BEANS

CONTROL OF PRATYLENCHUS

Object: To study the effects of two nematicides on the control of nematodes of the genus *Pratylenchus* and on the yield of s. beans - Whittlocks.

Sponsor: R.M. Webb.

Design: 4 randomised blocks of 5 plots.

Whole plot dimensions: 5.33 x 9.14.

Treatments:

NEMACIDE Nematicides and rates and methods of application:

NONE	None
ALD BC	Aldicarb at 10 kg, broadcast and worked in to seedbed
CAR 1 CD	Carbofuran at 1.7 kg, combine drilled
CAR 2 CD	Carbofuran at 2.2 kg, combine drilled
CAR 3 CD	Carbofuran at 3.2 kg, combine drilled

Basal applications: Manures: Chalk at 7.5 t. Weedkillers: Simazine at 0.14 kg with trietazine at 1.0 kg in 250 l. Fungicide: Benomyl at 0.56 kg in 250 l, applied with the insecticide. Insecticide: Pirimicarb at 0.14 kg.

Seed: Minden, sown at 260 kg.

Cultivations, etc.: - Chalk applied: 2 Sept, 1980. Ploughed: 29 Dec. Spring-tine cultivated: 19 Feb, 1981. Rotary harrowed, seed sown: 6 Apr. Weedkillers applied: 9 Apr. Fungicide and insecticide applied: 18 June. Combine harvested: 9 Sept. Previous crops: W. wheat 1979, s. barley 1980.

NOTE: Soil samples were taken in February, and root and soil samples taken in June for assessment of *Pratylenchus*.

GRAIN TONNES/HECTARE

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

NEMACIDE	NONE	ALD BC	CAR 1 CD	CAR 2 CD	CAR 3 CD	MEAN
	3.80	3.94	4.11	4.05	4.01	3.98

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

TABLE	NEMACIDE
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SED	0.092

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

STRATUM	DF	SE	CV%
BLOCK.WP	12	0.130	3.3

GRAIN MEAN DM% 85.8 PLOT AREA HARVESTED 0.00293