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83/R/BE/11 Control of *Pratylenchus* - S. Beans

Rothamsted Research

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83/R/BE/11

SPRING BEANS

CONTROL OF PRATYLENCHUS

Object: To study the effects of aldicarb and carbofuran on numbers of *Pratylenchus nematodes* and on the yield of s. beans - W. Barnfield II.

Sponsor: R.M. Webb.

Design: 4 randomised blocks of 5 plots.

Whole plot dimensions: 5.33 x 13.7.

Treatments:

NEMACIDE	Nematicides, rates and methods of application:
NONE	None
AL BC	Aldicarb at 10 kg, worked into seedbed
CA 1 CD	Carbofuran at 1.7 kg, combine drilled
CA 2 CD	Carbofuran at 2.2 kg, combine drilled
CA 3 CD	Carbofuran at 3.2 kg, combine drilled

Basal applications: Manures: Chalk at 5.0 t. Weedkillers: Trietazine with simazine (as 'Aventox SC' at 2.4 l) in 250 l. Glyphosate at 1.4 kg in 250 l. Insecticide: Pirimicarb at 0.14 kg in 250 l.

Seed: Minden, sown at 280 kg.

Cultivations, etc.:- Chalk applied: 16 Sept, 1982. Glyphosate applied: 19 Oct. Ploughed: 25 Nov. Spring-tine cultivated twice: 8 Mar, 1983. Aldicarb treatment applied, rotary harrowed, remaining treatments combine drilled: 10 Mar. Rolled, trietazine with simazine applied: 12 Mar. Pirimicarb applied: 16 June. Combine harvested: 12 Aug. Previous crops: S. barley 1981, w. wheat 1982.

NOTE: Soils were sampled for nematodes just before treatments were applied, and soils and roots in mid-June.

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GRAIN TONNES/HECTARE

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

NEMACIDE	NONE	AL BC	CA 1 CD	CA 2 CD	CA 3 CD	MEAN
	3.48	3.81	3.81	3.66	3.72	3.69

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

TABLE	NEMACIDE
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SED	0.122

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

STRATUM	DF	SE	CV%
BLOCK.WP	12	0.173	4.7

GRAIN MEAN DM% 86.6

PLOT AREA HARVESTED 0.00293