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84/R/BE/10 Control of *Pratylenchus* - S. Beans

Rothamsted Research

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84/R/BE/10

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 - Highfield VI.

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

Carbofuran applied to seed furrows at sowing:

CA 1 CD At 1.7 kg

CA 2 CD At 2.2 kg

CA 3 CD At 3.2 kg

Basal applications: Weedkiller: Simazine at 1.2 kg in 250 l.

Seed: Minden, sown at 240 kg.

Cultivations, etc.: - Heavy spring-tine cultivated: 12 Sept, 1983.
Ploughed: 15 Dec. Heavy spring-tine cultivated: 19 Mar, 1984. Aldicarb treatment applied, rotary harrowed, seed sown: 21 Mar. Weedkiller applied: 22 Mar. Combine harvested: 31 Aug. Previous crops: W. wheat 1982, s. barley 1983.

NOTE: Soil was sampled for nematodes just before treatments were applied, soil and plants were sampled in late May, and soils and roots in mid-June.

84/R/BE/10

GRAIN TONNES/HECTARE

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

NEMACIDE	NONE	AL BC	CA 1 CD	CA 2 CD	CA 3 CD	MEAN
	5.03	5.84	6.22	5.90	5.54	5.71

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

TABLE	NEMACIDE
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SED	0.178

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

STRATUM	DF	SE	CV%
BLOCK.WP	12	0.252	4.4

GRAIN MEAN DM% 87.6

PLOT AREA HARVESTED 0.00293