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85/R/BE/6 Control of *Pratylenchus* - S. Beans

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85/R/BE/6

SPRING BEANS

CONTROL OF PRATYLENCHUS

Object: To study the effects of aldicarb, carbofuran and phorate on numbers of *Pratylenchus* nematodes and on the yield of s. beans - Great Harpenden II.

Sponsor: R.M. Webb.

Design: 4 randomised blocks of 8 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

Phorate applied to seed furrows at sowing:

PH 1 CD At 3.0 kg
PH 2 CD At 4.5 kg
PH 3 CD At 6.0 kg

Basal applications: Manures: Chalk at 5.0 t. Weedkiller: Simazine at 1.2 kg in 200 l.

Seed: Minden, sown at 260 kg.

Cultivations, etc.: - Chalk applied: 23 Aug, 1984. Ploughed: 9 Nov. Heavy spring-tine cultivated, spring-tine cultivated: 18 Mar, 1985. Aldicarb treatment applied, harrowed in, seed sown: 20 Mar. Weedkiller applied: 25 Mar. Combine harvested: 25 Sept. Previous crops: S. wheat 1983, s. barley 1984.

NOTE: Soil was sampled for nematodes just before treatments were applied, and both soil and plant roots were sampled in April and June.

85/R/BE/6

GRAIN TONNES/HECTARE

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

NEMACIDE	
NONE	4.90
AL BC	4.91
CA 1 CD	5.21
CA 2 CD	5.07
CA 3 CD	5.14
PH 1 CD	4.88
PH 2 CD	4.94
PH 3 CD	5.12
MEAN	5.02

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

TABLE	NEMACIDE
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SED	0.136

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

STRATUM	DF	SE	CV%
BLOCK.WP	21	0.193	3.8
GRAIN MEAN DM%	83.2		
PLOT AREA HARVESTED	0.00293		