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Yields of the Field Experiments 1985



Full Table of Content

85/R/BE/7 Control of Stem Nematode - S. Beans

Rothamsted Research

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85/R/BE/7

SPRING BEANS

CONTROL OF STEM NEMATODE

Object: To study the effects of rates, times and methods of applying nematicides on the control of seed-borne infestation by stem nematode (Ditylenchus dipsaci) and on the yield of s. beans - Little Knott I.

Sponsor: A.G. Whitehead.

Design: 3 randomised blocks of 17 plots.

Whole plot dimensions: 2.29 x 4.57.

Treatments: All combinations of:-

1. NEMACIDE Nematicides:

ALDICARB Aldicarb CARBOFUR Carbofuran

2. NEM RATE Rates of nematicides (kg):

1	1 to seed furrows at sowing
2	2 to seed furrows at sowing
4	4 to seed furrows at sowing
2+2	2 to seed furrows at sowing + 2 post emergence on
	11 June, 1985

plus eight extra treatments:

EXTRA

NONE

None (duplicated)

	Post-emergence sprays, applied at 1.5 kg, in addition
	to carbofuran at 2 kg to seed furrow at sowing:
CA2 TB C	Thiabendazole applied by conventional sprayer
CA2 TB E	Thiabendazole applied by electrostatic sprayer
CA2 CZ C	Carbendazim applied by conventional sprayer
CA2 CZ E	Carbendazim applied by electrostatic sprayer
CA2 TD C	Thiodicarb applied by conventional sprayer
CA2 TD E	Thiodicarb applied by electrostatic sprayer
CA2 DI C	Dimethoate applied by conventional sprayer

NOTE: Conventional sprayer treatments were applied in 310 l on 24 June, and electrostatic sprays in 5.7 l on 25 June.

Basal applications: Manures: (0:24:24) at 450 kg. Weedkiller: Simazine at 1.1 kg in 620 l. Fungicide: Benomyl at 0.56 kg in 280 l. Insecticide: Pirimicarb at 0.14 kg in 280 l on two occasions.

Seed: Maris Bead, sown at 260 kg.

Cultivations, etc.:- Cultivated by rotary digger: 18 Dec, 1984. PK applied: 11 Mar, 1985. Seed sown and seedbed treatments applied: 12 Mar. Weedkiller applied: 15 Mar. Pirimicarb applied: 2 July, 25 July. Benomyl applied: 3 July. Harvested by hand: 4 Sept. Previous crops: W. wheat 1983, sugar beet 1984.

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85/R/BE/7
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NOTES:	(1)	Becaus	e of	a h	narvesti	ing	error	yields	of	four	plots	were	lost.
					eatment								
			ALC: NO. A	ATOF									

NEMA	CIDE	CARBOFUR	ALDICARB	ALDICARB
NEM	RATE	2	4	2+2
 EVTOA	CAO TO	0		

and EXTRA CA2 TD C. Estimated values were used in the analysis.

(2) Stem nematode infestations were assessed in the stems after flowering and in the seed after harvest.

GRAIN TONNES/HECTARE

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

NEM RATE NEMACIDE	1	2	4	2+2	MEAN	
ALDICARB	5.77	5.78	5.47	6.53	5.89	
CARBOFUR	5.93	6.02	5.86	5.35	5.79	
MEAN	5.85	5.90	5.67	5.94	5.84	
EXTRA NONE CA2 TB C CA2 TB E CA2 CZ C CA2 CZ E CA2 TD C CA2 TD C CA2 DI C MEAN GRAND MEAN	6.44 5.51 5.44 5.67					
***** STANDARD	ERRORS OF DIF	FERENCES 0	F MEANS **	****		
TABLE			NEM RA	TE	EXTRA	
SED	0.210		0.4			MIN REP MAX-MIN
EXTRA MAX-MIN NONE V MIN REP ANY OF	ANY OF REMAIN	NDER				
***** STRATUM S	TANDARD ERRORS	S AND COEF	FICIENTS O	F VARIAT	ION ***	**
STRATUM	Dł		SE	CV%		
BLOCK . WP	29)	0.513	8.9		
GRAIN MEAN DM%	76.7					
PLOT AREA HARVE	STED 0.00035					

266