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85/R/ON/1 Control of Stem Nematode - Onions

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85/R/ON/1

ONIONS

CONTROL OF STEM NEMATODE

Object: To study the effects of rates, times and methods of applying nematicides on the control of stem nematode and on the yield of onions - Fosters 0 and E VI.

Sponsor: A.G. Whitehead.

Design: 2 randomised blocks of 15 plots.

Whole plot dimensions: 2.29 x 7.32.

Treatments: All combinations of:-

1. NEM S Nematicides to seed furrow:
 ALDICARB Aldicarb
 CARBOFUR Carbofuran
2. NEM S RT Rates of nematicides to seed furrow (kg):
 1
 2
3. NEM F Foliar nematicide, applied by electrostatic sprayer, at
 1.5 kg:
 NONE None
 THIABEND Thiabendazole
 THIODICA Thiodicarb

plus one extra treatment:

- EXTRA
NONE None (triplicated)

NOTE: The foliar nematicides were applied in 5.7 l on 2 June, 1985.

Basal applications: Manures: (13:13:20) at 1880 kg. Weedkillers: Glyphosate at 1.4 kg in 280 l. Propachlor at 4.4 kg in 280 l.

Seed: Robusta, dressed benomyl and thiram, sown at 6.7 kg.

Cultivations, etc.: - Glyphosate applied: 25 Sept, 1984. Ploughed: 16 Nov. NPK applied: 11 Mar, 1985. Rotary harrowed: 13 Mar. Seed sown, seed furrow treatments applied: 14 Mar. Propachlor applied: 21 Mar. Lifted: 24 Sept. Previous crops: S. oats 1983, w. oats 1984.

NOTE: Stem nematode damage to onions stored after harvest was assessed.

85/R/ON/1

FRESH WEIGHT TONNES/HECTARE

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

NEM S RT	1	2	MEAN	
NEM S				
ALDICARB	54.1	56.4	55.3	
CARBOFUR	44.0	53.6	48.8	
MEAN	49.1	55.0	52.0	
NEM F	NONE	THIABEND	THIODICA	MEAN
NEM S				
ALDICARB	55.3	55.3	55.2	55.3
CARBOFUR	47.4	49.8	49.2	48.8
MEAN	51.4	52.5	52.2	52.0
NEM F	NONE	THIABEND	THIODICA	MEAN
NEM S RT				
1	44.9	50.8	51.5	49.1
2	57.8	54.3	53.0	55.0
MEAN	51.4	52.5	52.2	52.0
NEM S RT	1	2		
NEM F	NONE	THIABEND	THIODICA	NONE
NEM S				THIABEND
ALDICARB	48.9	55.4	58.0	61.7
CARBOFUR	40.8	46.1	45.0	53.9
				55.1
				52.4
				53.5
				53.5

EXTRA NONE 0.5

GRAND MEAN 41.7

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

TABLE	NEM S	NEM S RT	NEM F	NEM S NEM S RT
SED	2.52	2.52	3.09	3.56
TABLE	NEM S NEM F	NEM S RT NEM F	NEM S NEM S RT NEM F	
SED	4.37	4.37	6.17	

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

STRATUM	DF	SE	CV%
BLOCK.WP	11	6.17	11.9
PLOT AREA HARVESTED	0.00084		