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83/R/CS/294 Aldicarb and Stem Nematode - S. Oats

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83/R/CS/294

ALDICARB AND STEM NEMATODE

Object: To study the effects of a range of rates and methods of applying aldicarb on the control of stem nematode (*Ditylenchus dipsaci*) and on the yield of s. oats - Fosters 0 and E VI.

Sponsor: A.G. Whitehead.

The second year, s. oats.

For previous year see 82/R/0/1.

Design: 3 randomised blocks of 10 plots.

Whole plot dimensions: 2.29 x 7.32.

Treatments:

TREATMNT	Aldicarb rates and row spacings (cumulative to 1982, except as stated):
	Sown in rows 12.7 cm (5 inches) apart:
0 CR N	No aldicarb
2 CR N	Aldicarb at 1.25 kg per ha, applied equally to every row
4 CR N	Aldicarb at 2.5 kg per ha, applied equally to every row
	Sown in rows 12.7 cm (5 inches) apart in 1982, 25.4 cm (10 inches) apart in 1983:
1 CR W	Aldicarb at 0.6 kg per ha, applied to alternate rows only in 1982, all rows in 1983
2 CR W	Aldicarb at 1.25 kg per ha, applied to alternate rows only in 1982, all rows in 1983
4 CR W	Aldicarb at 2.5 kg per ha, applied to alternate rows only in 1982, all rows in 1983
	Sown in 7.6 cm (3 inches) wide bands, centres of bands 25.4 cm (10 inches) apart:
0 WB	No aldicarb
1 WB	Aldicarb at 0.6 kg per ha, applied equally to all bands
2 WB	Aldicarb at 1.25 kg per ha, applied equally to all bands
4 WB	Aldicarb at 2.5 kg per ha, applied equally to all bands

Basal applications: Manures: (20:10:10) at 380 kg. Weedkillers: Mecoprop, bromoxynil and ioxynil (as 'Brittox' at 3.5 l) in 280 l with the fungicide. Fungicide: Tridemorph at 0.52 kg.

Seed: Maris Osprey, sown at 190 kg.

Cultivations, etc.: - Ploughed: 24 Sept, 1982. NPK applied: 7 Mar, 1983. Spring-tine harrowed, treatments applied, seed sown, harrowed in: 10 Mar. Weedkillers and fungicide applied: 23 May. Combine harvested: 4 Aug. Previous crops: W. oats 1981, s. oats 1982.

NOTE: The percentages of plants infested with stem nematode were assessed.

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GRAIN TONNES/HECTARE

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

TREATMNT	
0 CR N	2.00
2 CR N	3.03
4 CR N	3.03
1 CR W	2.99
2 CR W	2.87
4 CR W	2.87
0 WB	1.98
1 WB	2.61
2 WB	2.81
4 WB	2.86
MEAN	2.70

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

TABLE	TREATMNT
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SED	0.207

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

STRATUM	DF	SE	CV%
BLOCK.WP	18	0.253	9.4

GRAIN MEAN DM% 85.1

PLOT AREA HARVESTED (PLOTS WITH ROWS 12.7 CM APART) 0.00093

PLOT AREA HARVESTED (PLOTS WITH ROWS 25.4 CM APART) 0.00111