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82/R/O/1 Aldicarb and Stem Nematode - Spring Oats

Rothamsted Research

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82/R/0/1

SPRING OATS

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.

Design: 3 randomised blocks of 10 plots.

Whole plot dimensions: 2.29 x 7.32.

Treatments:

TREATMNT	Aldicarb rates and row spacings:
	Sown in rows 12.7 cm (5 inches) apart:
0 CR	No aldicarb
2 CR	Aldicarb at 1.25 kg per ha, applied equally to every row
4 CR	Aldicarb at 2.5 kg per ha, applied equally to every row
1 CR ALT	Aldicarb at 0.6 kg per ha, applied to alternate rows only
2 CR ALT	Aldicarb at 1.25 kg per ha, applied to alternate rows only
4 CR ALT	Aldicarb at 2.5 kg per ha, applied to alternate rows only
	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 360 kg. 'Nitro-Chalk' at 140 kg. Weedkillers: Mecoprop, bromoxynil and ioxynil (as 'Brittox' at 3.5 l) in 220 l.

Seed: Maris Osprey, sown at 180 kg.

Cultivations, etc.: - Ploughed: 15 Oct, 1981. NPK applied: 23 Mar, 1982. Treatments applied, rotary harrowed, seed sown: 25 Mar. Weedkillers applied: 13 May. N applied by hand: 28 May. Combine harvested: 10 Aug. Previous crops: Mixed crops 1980, w. oats 1981.

82/R/0/1

GRAIN TONNES/HECTARE

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

TREATMNT	
0 CR	3.47
2 CR	3.57
4 CR	3.59
1 CR ALT	3.34
2 CR ALT	3.44
4 CR ALT	3.67
0 WB	2.95
1 WB	3.13
2 WB	3.27
4 WB	3.17
MEAN	3.36

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

TABLE	TREATMNT
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SED	0.139

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

STRATUM	DF	SE	CV%
BLOCK.WP	18	0.171	5.1

GRAIN MEAN DM% 88.2

PLOT AREA HARVESTED 0.00093 (ROWS 12.7CM SPACING)
0.0111 (ROWS 7.6CM SPACING)