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77/R/O/1 Sowing Dates and Insecticides - Oats

Rothamsted Research

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77/R/O/1

WINTER OATS

SOWING DATES AND INSECTICIDES

Object: To study the effects of dates of sowing and times of applying insecticides on the incidence of cereal aphids, barley yellow dwarf virus (BYDV) and yield of winter oats - Whittlocks.

Sponsor: R.T. Plumb.

Design: 3 randomised blocks of 12 plots.

Whole plot dimensions: 6.40 x 18.3.

Treatments: All combinations of:-

1. SOW DATE Sowing dates:

16 SEP	16 September, 1976
2 NOV	2 November, 1976
3 DEC	3 December, 1976

2. INSECTICIDE(1) Phorate granules to seedbed:

NONE	None
PHORATE	Phorate at 5 kg

3. INSECTICIDE(2) Menazon spray:

NONE	None
MENAZON	Menazon (0.7 l 'Saphi-Col' in 300 l on 2 June, 1977).

Basal applications: Manures: (0:20:20) at 310 kg, combine drilled. 'Nitro-Chalk' at 310 kg. Weedkillers: Dicamba with mecoprop and MCPA ('Banlene Plus' at 4.9 l in 220 l) applied in spring. Paraquat at 6.7 kg ion in 380 l.

Seed: Peniarth, sown at 190 kg.

Cultivations, etc.: - Deep-tine cultivated: 24 Aug, 1976, 2 Sept. Spring-tine cultivated: 8 Sept. Power harrowed for first sowing: 13 Sept. Paraquat applied to second sowing plots and these plots spring-tine cultivated: 21 Oct. Paraquat applied to third sowing plots: 26 Nov. Rotary harrowed for third sowing: 3 Dec. N applied: 14 Apr, 1977. Spring weedkillers applied: 4 May. Combine harvested: 28 Aug. Previous crops: Wheat 1975, barley 1976.

NOTE: Plant emergence, aphid and virus counts were made during the season. Tiller counts were made before harvest and grains per ear at harvest.

77/R/O/1

GRAIN TONNES/HECTARE

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

INSCTCDE(1)	NONE	PHORATE	MEAN
SOW DATE			
16 SEP	5.72	5.53	5.62
2 NOV	5.05	5.24	5.15
3 DEC	5.36	5.25	5.30
MEAN	5.38	5.34	5.36

INSCTCDE(2)	NONE	MENAZON	MEAN
SOW DATE			
16 SEP	5.84	5.40	5.62
2 NOV	5.21	5.08	5.15
3 DEC	5.33	5.28	5.30
MEAN	5.46	5.25	5.36

INSCTCDE(2)	NONE	MENAZON	MEAN
INSCTCDE(1)			
NONE	5.52	5.23	5.38
PHORATE	5.41	5.27	5.34
MEAN	5.46	5.25	5.36

INSCTCDE(1)	NONE		PHORATE	
INSCTCDE(2)	NONE	MENAZON	NONE	MENAZON
SOW DATE				
16 SEP	5.84	5.59	5.84	5.22
2 NOV	5.19	4.91	5.23	5.25
3 DEC	5.51	5.20	5.14	5.36

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

TABLE	SOW DATE	INSCTCDE(1)	INSCTCDE(2)	SOW DATE
				INSCTCDE(1)
SED	0.190	0.155	0.155	0.269

TABLE	SOW DATE	INSCTCDE(1)	SOW DATE
	INSCTCDE(2)	INSCTCDE(2)	INSCTCDE(1)
			INSCTCDE(2)
SED	0.269	0.220	0.380

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

STRATUM	DF	SE	CV%
BLOCK.WP	22	0.466	8.7

GRAIN MEAN DM% 84.9

PLOT AREA HARVESTED 0.00260