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

Rothamsted Research

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78/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 on the yield of winter oats - White Horse II.

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:

30 SEP	30 September, 1977
28 OCT	28 October
25 NOV	25 November

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 220 l on 14 June, 1978).

Basal applications: Manures: (0:20:20) at 310 kg, combine drilled. 'Nitra-Shell 34' at 270 kg. Weedkillers: Mecoprop at 2.8 kg in 220 l.

Seed: Peniarth, sown at 190 kg.

Cultivations, etc.:- Ploughed: 1 Sept, 1977. Heavy spring-tine cultivated: 16 Sept. Rotary harrowed: 28 Sept. Treatment applied to SOW DATE 30 SEP and these plots only rotary harrowed and sown: 30 Sept, and rolled: 3 Oct. Treatments applied to SOW DATE 28 OCT and these plots only power harrowed and sown: 28 Oct. Treatments applied to SOW DATE 25 NOV and these plots only rotary harrowed, sown and spring-tine cultivated: 25 Nov. N applied: 9 Apr, 1978. Weedkiller applied: 25 Apr. Combine harvested: 14 Aug.

NOTE: Plant emergence counts and aphid and virus assessments were made during the season, counts of grains per panicle were made shortly before harvest.

78/R/0/1

GRAIN TONNES/HECTARE

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

INSCTCDE(1)	NONE	PHORATE	MEAN
SOW DATE			
30 SEP	6.71	6.94	6.82
28 OCT	6.23	6.24	6.24
25 NOV	5.88	5.97	5.92
MEAN	6.27	6.38	6.33

INSCTCDE(2)	NONE	MENAZON	MEAN
SOW DATE			
30 SEP	6.77	6.88	6.82
28 OCT	6.31	6.16	6.24
25 NOV	6.04	5.81	5.92
MEAN	6.37	6.28	6.33

INSCTCDE(2)	NONE	MENAZON	MEAN
INSCTCDE(1)			
NONE	6.26	6.28	6.27
PHORATE	6.48	6.29	6.38
MEAN	6.37	6.28	6.33

INSCTCDE(1)	NONE	MENAZON	PHORATE	MENAZON
INSCTCDE(2)				
SOW DATE				
30 SEP	6.60	6.82	6.95	6.94
28 OCT	6.29	6.17	6.33	6.16
25 NOV	5.89	5.86	6.18	5.76

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

TABLE	SOW DATE	INSCTCDE(1)	INSCTCDE(2)	SOW DATE
				INSCTCDE(1)
SED	0.118	0.096	0.096	0.166

TABLE	SOW DATE	INSCTCDE(1)	SOW DATE
	INSCTCDE(2)	INSCTCDE(2)	INSCTCDE(1)
			INSCTCDE(2)
SED	0.166	0.136	0.235

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

STRATUM	DF	SE	CV%
BLOCK.WP	22	0.288	4.6
GRAIN MEAN DM%	79.7		
PLOT AREA HARVESTED	0.00260		