

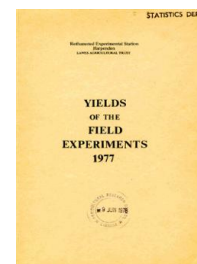
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Rothamsted Research

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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) <th>NONE</th> <th>MENAZON</th> <th>NONE</th> <th>MENAZON</th>	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(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		