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# Yields of the Field Experiments 1976



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# 76/R/O/1 Sowing Dates and Insecticides - Oats

## **Rothamsted Research**

Rothamsted Research (1977) 76/R/O/1 Sowing Dates and Insecticides - Oats; Yields Of The Field Experiments 1976, pp 321 - 322 - DOI: https://doi.org/10.23637/ERADOC-1-15

### 76/R/0/1

#### 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 - Gt. Harpenden I.

Sponsor: R.T. Plumb.

Design: 4 randomised blocks of 12 plots.

Whole plot dimensions: 6.40 x 22.9.

Treatments: All combinations cf:-

1. SOW DATE Sowing dates:

22 SEP 22 September, 1975 20 OCT 20 October, 1975 24 NOV 24 November, 1975

2. INSCTCDE(1) Phorate granules to seedbed:

NONE None

PHORATE Phorate at 5 kg

3. INSCTCDE(2) Menazon spray:

NONE None

MENAZON Menazon (0.7 1 'Saphi-Col' in 450 1 on 14 May, 1976)

NOTE: Because of an error INSCTCDE(1) PHORATE was also applied to SOW DATE 20 OCT and 24 NOV on 22 Sept, 1975. Phorate was re-applied to these treatments to appropriate seedbeds.

Basal applications: Manures: (0:20:20) at 310 kg, combine drilled. 'Nitro-Chalk' at 310 kg. Weedkillers: loxynil at 0.53 kg with mecoprop at 1.6 kg (both as the potassium salt) in 220 l.

Seed: Peniarth, sown at 190 kg.

Cultivations, etc.:- Deep-tine cultivated three times: 11, 12, 15 Sept, 1975. Heavy spring-tine cultivated: 15 Sept. Power harrowed for first sowing: 22 Sept. Spring-tine cultivated for second and third sowings: 10 Oct. N applied: 30 Mar, 1976. Weed-killer applied: 13 Apr. Combine harvested: 15 July. Previous crops: Winter wheat 1974, winter wheat and barley 1975.

NOTE: Seedling emergence counts were made. Aphid and virus counts were made on three occasions. Tiller counts were made twice and floret numbers once.

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GRAIN TONNES/HECTARE

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

INSCTCDE(1) SOW DATE	NONE	PHORATE	MEAN			
22 SEP	4.73	4.61	4.67			
20 OCT	4.87	5.18	5.02			
24 NOV	3.98	4.32	4.15			
MEAN	4.52	4.70	4.61			
INSCTCDE(2) SOW DATE	NONE	MENA ZON	MEAN			
22 SEP	4.68	4.66	4.67			
20 OCT	5.05	4.99	5.02			
24 NOV	4.12	4.19	4.15			
MEAN	4.62	4.61	4.61			
INSCTCDE(2) INSCTCDE(1)	NONE	MENAZON	MEAN			
NONE	4.54	4.50	4.52			
PHORATE	4.69	4.72	4.70			
MEAN	4.62	4.61	4.61			
INSCTCDE(2)	NON	E		MENAZON		
SOW DATE INSCTCDE(1)	22 SE		24 NOV	22 SEP	20 OCT	24 NOV
NONE	4.7	4 4.89	4.00	4.72	4.84	3.96
PHORATE	4.6		4. 23	4.60	5.15	4.42
2010111	100	0-20	14.00		0.20	

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

TABLE	INSCTCDE(1)	INSCTCDE (2)	SOW DATE	INSCTCDE(1) INSCTCDE(2)
SED	0.058	0.058	0.071	0.082
TABLE	INSCTCDE(1) SOW DATE	INSCTCDE(2) SOW DATE	INSCTCDE(1) INSCTCDE(2) SOW DATE	
SED	0.101	0.101	0.142	5.6 - A- 5.5

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

STRATUM DF SE CV%

BLOCK.WP 33 0.201 4.4

GRAIN MEAN DM% 86.7

PLOT AREA HARVESTED 0.00358