

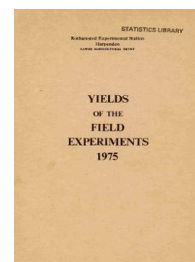
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75/ R/WW/4 - Sowing Dates & Insecticides - Winter Wheat

Rothamsted Research

Rothamsted Research (1976) 75/ R/WW/4 - *Sowing Dates & Insecticides - Winter Wheat* ; Yields Of The Field Experiments 1975, pp 293 - 294 - DOI: <https://doi.org/10.23637/ERADOC-1-141>

75/R/WW/4

WINTER AND SPRING WHEAT

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 wheat - Whittlocks.

Sponsor: R.T. Plumb.

Design: 4 randomised blocks of 12 plots.

Whole plot dimensions: 6.40 x 24.4.

Treatments: All combinations of:-

1. Dates of sowing:	SOW DATE
8 November 1974	8 NOV
5 December 1974	5 DEC
27 February 1975	27 FEB
2. Phorate granules to seedbed:	INSECTICIDE(1)
None	NONE
Phorate at 5 kg	PHORATE
3. Menazon spray:	INSECTICIDE(2)
None	NONE
Menazon (0.7 l 'Saphi-Col' in 450 l on 13 June 1975)	MENAZON

NOTE: It was intended to sow winter wheat in September, October and November, but because of poor weather, only two autumn sowings were possible and the third series of plots were sown with spring wheat on 27 February.

Seed: Winter wheat: Cappelle, sown at 200 kg.
Spring wheat: Kleiber, sown at 200 kg.

Basal applications: Manures: (10:24:24) at 250 kg, 'Nitro-Chalk' at 500 kg.

Cultivations, etc.:- Ploughed: 25 Sept to 9 Oct, 1974. Spring-tine cultivated twice: 7 Nov. Phorate applied, plots rotary cultivated, seed sown: 8 Nov. Phorate applied and plots power harrowed, seed sown: 5 Dec. Phorate applied, plots power harrowed, seed sown: 27 Feb, 1975. N applied to all plots: 20 Apr. Combine harvested: November and December sowing: 14 Aug, February sowing: 28 Aug. Previous crops: Barley 1973, Oats 1974.

NOTE: Aphid counts were made on 24 Apr, 22 May, 11 June, 4, 10 and 21 July, virus counts on 26 June and 4 July. Ear weights and grain numbers prior to harvest and 1,000 grain weights were determined.

75/R/WW/4

GRAIN TONNES/HECTARE

*** TABLES OF MEANS ***

INSC TCDE(1) SOW DATE	NONE	PHORATE	MEAN
8 NOV	5.90	5.99	5.94
5 DEC	5.59	5.74	5.66
27 FEB	3.73	4.27	4.02
MEAN	5.09	5.33	5.21

INSC TCDE(2) SOW DATE	NONE	MENAZON	MEAN
8 NOV	5.98	5.91	5.94
5 DEC	5.60	5.73	5.66
27 FEB	4.01	4.03	4.02
MEAN	5.20	5.22	5.21

INSC TCDE(2) INSC TCDE(1)	NONE	MENAZON	MEAN
NONE	5.01	5.17	5.09
PHORATE	5.39	5.28	5.33
MEAN	5.20	5.22	5.21

INSC TCDE(1) INSC TCDE(2) SOW DATE	NONE	MENAZON	PHORATE NONE	MENAZON
8 NOV	5.94	5.86	6.02	5.96
5 DEC	5.47	5.72	5.74	5.74
27 FEB	3.61	3.94	4.41	4.13

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

TABLE	SOW DATE	INSC TCDE(1)	INSC TCDE(2)	SOW DATE INSC TCDE(1)
SED	0.145	0.113	0.118	0.205

TABLE	SOW DATE INSC TCDE(2)	INSC TCDE(1) INSC TCDE(2)	SOW DATE INSC TCDE(1) INSC TCDE(2)
SED	0.205	0.167	0.290

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

STRATUM	DF	SE	CV%
BLOCK.WP	33	0.410	7.9

GRAIN MEAN DM% 87.3

PLOT AREA HARVESTED 0.00390