ROTHAMSTED RESEARCH

Yields of the Field Experiments 1977

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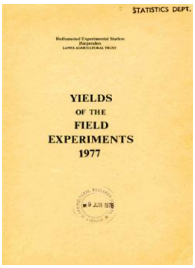

77/R/WW/4 Sowing Dates and Insecticides - W. Wheat

Rothamsted Research

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77/R/WW/4

WINTER 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 - Bylands.

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 — Dates of sowing:

13 SEP	13 September 1976
21 OCT	21 October
26 NOV	26 November

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 l 'Saphi-Col' in 220 l on 2 June, 1977)

Basal applications: Manures: (0:20:20) at 310 kg, combine drilled. 'Nitro-Chalk' at 380 kg. Weedkillers: Ioxynil at 0.63 kg with mecoprop at 1.9 kg in 220 l.

Seed: Flanders, sown at 190 kg.

Cultivations, etc.:- Ploughed: 26 Aug, 1976. Spring-tine cultivated: 7 Sept. Phorate applied to early-sown plots, these plots power harrowed and sown: 13 Sept. Phorate applied to middle-sown plots: 20 Oct. Middle-sown plots spring-tine cultivated and sown: 21 Oct. Phorate applied to late-sown plots, these plots rotary harrowed and sown: 26 Nov. N applied to all plots: 9 Apr, 1977. Weedkillers applied: 18 Apr. Combine harvested: 7 Sept. Previous crops: Barley 1975, beans 1976.

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

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77/R/WW/4

GRAIN TONNES/HECTARE

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

INSCTCDE(1)	NONE	PHORATE	MEAN
SOW DATE			
13 SEP	7.69	7.47	7.58
21 OCT	6.48	6.68	6.58
26 NOV	5.35	5.76	5.55
MEAN	6.51	6.64	6.57

INSCTCDE(2)	NONE	MENAZON	MEAN
SOW DATE			
13 SEP	7.37	7.80	7.58
21 OCT	6.43	6.73	6.58
26 NOV	5.30	5.80	5.55
MEAN	6.37	6.77	6.57

INSCTCDE(2)	NONE	MENAZON	MEAN
INSCTCDE(1)			
NONE	6.38	6.63	6.51
PHORATE	6.36	6.92	6.64
MEAN	6.37	6.77	6.57

INSCTCDE(1)	NONE		PHORATE	
INSCTCDE(2)	NONE	MENAZON	NONE	MENAZON
SOW DATE				
13 SEP	7.42	7.97	7.33	7.62
21 OCT	6.50	6.47	6.37	6.98
26 NOV	5.24	5.46	5.37	6.14

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

TABLE	SOW DATE	INSCTCDE(1)	INSCTCDE(2)	SOW DATE INSCTCDE(1)
SED	0.241	0.197	0.197	0.340

TABLE	SOW DATE INSCTCDE(2)	INSCTCDE(1) INSCTCDE(2)	SOW DATE INSCTCDE(1) INSCTCDE(2)
SED	0.340	0.278	0.481

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

STRATUM	DF	SE	CV%
BLOCK.WP	22	0.590	9.0

GRAIN MEAN DM% 79.9

PLOT AREA HARVESTED 0.00267

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