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

Rothamsted Research

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76/B/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 - Great Knott I.

Sponsor: R.T. Plumb.

Design: 4 randomised blocks of 12 plots.

Whole plot dimensions: 6.40 x 22.9.

Treatments: All combinations of:-

1. SOW DATE Dates of sowing:

26 SEPT	26 September 1975
20 OCT	20 October
24 NOV	24 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 May, 1976)

Basal applications: (0:20:20) at 310 kg, combine drilled. 'Nitro-Chalk' at 380 kg. Weedkillers: Ioxynil at 0.53 kg with mecoprop at 1.6 kg (both as the potassium salt) in 220 l.

Seed: Cappelle, sown at 190 kg.

Cultivations, etc.: - Ploughed: 7 Sept, 1975. Spring-tine cultivated twice: 17 Sept. Phorate applied to early-sown plots: 19 Sept. Power harrowed these plots only: 22 Sept. Early plots sown: 26 Sept. Phorate to middle-sown plots and these plots only rotary cultivated and sown: 20 Oct. Phorate to late-sown plots, rotary cultivated and sown: 24 Nov. N applied to all plots: 9 Apr, 1976. Weedkiller applied: 10 Apr. Combine harvested: 30 July. Previous crops: Barley 1974, beans 1975.

NOTE: Emergence counts were made. Aphids were counted on six occasions from May to July. Ladybirds were counted in June and tiller numbers in late July.

76/R/WW/4

GRAIN TONNES/HECTARE

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

INSCTCDE(2)	NONE	MENAZON	MEAN
INSCTCDE(1)			
NONE	4.25	4.33	4.29
PHORATE	4.55	4.52	4.53
MEAN	4.40	4.42	4.41

SOW DATE	26 SEPT	20 OCT	24 NOV	MEAN
INSCTCDE(1)				
NONE	4.30	4.73	3.84	4.29
PHORATE	4.56	5.05	4.00	4.53
MEAN	4.43	4.89	3.92	4.41

SOW DATE	26 SEPT	20 OCT	24 NOV	MEAN
INSCTCDE(2)				
NONE	4.41	4.87	3.92	4.40
MENAZON	4.44	4.91	3.92	4.42
MEAN	4.43	4.89	3.92	4.41

INSCTCDE(2)	NONE	MENAZON				
SOW DATE	26 SEPT	20 OCT	24 NOV	26 SEPT	20 OCT	24 NOV
INSCTCDE(1)						
NONE	4.23	4.67	3.86	4.36	4.79	3.83
PHORATE	4.60	5.07	3.99	4.52	5.03	4.01

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

TABLE	INSCTCDE(1)	INSCTCDE(2)	SOW DATE	INSCTCDE(1)	INSCTCDE(2)
SED	0.054	0.054	0.066	0.076	

TABLE	INSCTCDE(1)	INSCTCDE(2)	INSCTCDE(1)	INSCTCDE(2)
	SOW DATE	SOW DATE	SOW DATE	SOW DATE
SED	0.093	0.093	0.132	

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

STRATUM	DF	SE	CV%
BLOCK.WP	33	0.186	4.2

GRAIN MEAN DM% 88.1

PLOT AREA HARVESTED 0.00358