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Yields of the Field Experiments 1980

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80/R/B/14 Spring Barley Sowing Dates and Aphicides

Rothamsted Research

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80/R/B/14

SPRING BARLEY

SOWING DATES AND APHICIDES

Object: To study the effects of three aphicides on the incidence of aphids and on the yield of s. barley sown on two dates - Whittlocks.

Sponsor: G.C. Scott.

Design: 4 randomised blocks of 10 plots.

Whole plot dimensions: 8.53 x 12.2.

Treatments: All combinations of:-

1. SOWDATE Dates of sowing:

24 MARCH
28 APRIL

2 APHICIDE Aphicides:

NONE	None
DEMET 1	Demeton-s-methyl at 0.12 kg applied once on 16 July 1980
PERMET 1	Permethrin at 0.10 kg on 16 July
PIRIM 1	Pirimicarb at 0.14 kg on 16 July
DEMET R	Demeton-s-methyl at 0.24 kg on 23 June and 7 July and at 0.12 kg on 16 July

NOTE: Spray treatments were applied in 560 l.

Basal applications: Manures: (20:10:10) at 450 kg, combine drilled.

Weedkillers: Dicamba with mecoprop and MCPA (as 'Banlene Plus' at 5.0 l) in 250 l. Fungicide: Tridemorph at 0.53 kg applied with the weedkillers.

Seed: Georgie, sown at 160 kg.

Cultivations, etc.: - Ploughed: 22 Nov, 1979. Spring-tine cultivated, for the first sowing: 24 Mar, 1980. Rotary harrowed for the second sowing: 28 Apr. Weedkiller applied to first sowing: 27 May. Weedkiller applied to second sowing: 9 June. Combine harvested: 28 Aug. Previous crops: Grass 1978, w. wheat 1979.

NOTES: Aphid numbers were assessed twice per week from 9 June to 6 Aug. BYDV was assessed in June and July. Stem borers were assessed on three occasions. Numbers of tillers and ears were counted at maturity and 1000 grain weights were measured.

80/R/B/14

GRAIN TONNES/HECTARE

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

APHCIDE SOWDATE	NONE	DEMET 1	PERMET 1	PIRIM 1	DEMET R	MEAN
24 MARCH	5.91	5.91	6.09	6.07	6.39	6.08
28 APRIL	3.77	4.30	4.15	4.18	4.73	4.23
MEAN	4.84	5.11	5.12	5.12	5.56	5.15

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

TABLE	SOWDATE	APHCIDE	SOWDATE APHCIDE
SED	0.102	0.161	0.228

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

STRATUM	DF	SE	CV%
BLOCK.WP	27	0.323	6.3

GRAIN MEAN DM% 81.4

PLOT AREA HARVESTED 0.00260