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78/R/B/3 Sowing Dates, Vernalization and Mildew - Barley

Rothamsted Research

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78/R/B/3

WINTER BARLEY

SCWING DATES, VERNALIZATION AND MILDEW

Object: To study the effects of sowing date and vernalization on the incidence of mildew and on the yield of winter barley - Garden Plot 1.

Sponsors: J.F. Jenkyn, M.E. Finney, N. White.

Design: 3 randomised blocks of 8 plots.

Whole plot dimensions: 1.83 x 3.05.

Treatments: All combinations of:-

1. S DATE T Sowing date and autumn tridemorph:

13 OCT+T	13 October, tridemorph spray at 0.53 kg in 340 l on 18 Nov, 1977
13 OCT 0	13 October, no tridemorph
15 NOV 0	15 November, no tridemorph
7 APR 0	7 April, no tridemorph

2. SD TREAT Seed treatment before sowing

NONE	None
VERN	Seed vernalized for six weeks before sowing

NOTES: (1) For SD TREAT VERN the seed was placed in a cold room kept at 0° to 1°C and seed was maintained at 80% moisture content by the weekly addition of weighed quantities of water.
(2) Yields were not recorded from S DATE T 15 NOV 0 because of severe bird damage prior to harvest.

Basal applications: Manures: (0:14:28) at 720 kg. N at 100 kg (as 'Nitro-Chalk 25').

Seed: Astrix, sown by hand at 150 kg.

Cultivations, etc.:- Ploughed: 23 Aug, 1977. N applied: 27 Apr, 1978. Harvested: 14 Aug and 15 Sept.

NOTE: Mildew was observed throughout the season. Observations were also made of the number of leaves on the main shoot and first tiller, the size of the leaves, and the proportion of the leaves which had been killed by mildew.

78/R/B/3

GRAIN TONNES/HECTARE

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

SD TREAT	NONE	VERN	MEAN
S DATE T			
13 OCT+T	4.60	5.47	5.03
13 OCT 0	5.41	4.49	4.95
7 APR 0	4.96	5.21	5.08
MEAN	4.99	5.05	5.02

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

TABLE	S DATE T	SD TREAT	S DATE T SD TREAT
SED	0.488	0.399	0.691

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

STRATUM	DF	SE	CV%
BLOCK.WP	10	0.846	16.8
GRAIN MEAN DM%	79.4		
PLOT AREA HARVESTED	0.00038		