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75/ R/B/1 - Fungicides & Mildew - Barley

Rothamsted Research

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75/R/B/1

WINTER BARLEY

FUNGICIDES AND MILDEW

Object: To study the effects of applying tridemorph on one or two occasions on the incidence of mildew and the yield of winter barley - Fosters West.

Sponsors: A. Bainbridge, J.F. Jenkyn, M. Finney.

Design: 4 randomised blocks of 3 plots.

Whole plot dimensions: 4.27 x 9.14.

Treatments: Times of applying tridemorph:-

	TRIDEMOR
None	NONE
Once, 20 May	ONCE
Twice, 20 May, 13 June	TWICE

NOTE: Tridemorph was applied at 0.53 kg in 340 l.

Basal applications: Manures: (0:20:20) at 310 kg combine drilled, 'Nitro-Chalk' at 410 kg. Weedkiller: Ioxynil with mecroprop ('Actril C' at 7.0 l in 220 l).

Seed: Senta, sown at 160 kg.

Cultivations, etc.:- Rotary harrowed: 5 Dec, 1974. Seed sown, harrowed: 6 Dec. N applied: 25 Apr, 1975. Weedkiller applied: 19 May. Combine harvested: 30 July. Previous crops: Barley 1973, fallow 1974.

NOTE: Leaves of mildewed plants were fed C^{14} and assessed after 24 hours and at harvest for distributions of C^{14} within the plant. Mildew assessments were made throughout the season.

75/R/E/1

*** TABLES OF MEANS ***

GRAIN TONNES/HECTARE

TRIDEMOR	NONE	ONCE	TWICE	MEAN
	3.83	4.66	4.39	4.30

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

TABLE	TRIDEMOR
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SED	0.354

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

STRATUM	DF	SE	CV%
BLOCK.WP	6	0.501	11.7

GRAIN MEAN DM% 86.1

PLOT AREA HARVESTED 0.00260