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75/ R/B/6 - Systemic Fungicide Study - Barley

Rothamsted Research

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75/R/B/6

SPRING BARLEY

SYSTEMIC FUNGICIDE STUDY

Object: To study the effectiveness of methyl benzimidazol-2-ylcarbamate (MBC) and several precursors of MBC and to relate chemical measurements of persistence, movement and conversion to MBC to field performance - Gt. Knott II.

Sponsors: I.J. Graham-Bryce, P.H. Nicholls.

Design: 4 randomised blocks of 6 plots.

Whole plot dimensions: 2.41 x 9.14.

Treatments: Fungicidal seed dressings (at 0.5 kg/ha):- FUNGICIDE

None	NONE
Benomyl	BENOMYL
Ethirimol	ETHIRIMO
MBC	MBC
NF 48	NF 48
Thiophanate methyl	THIOPHAN

Basal applications: Manures: (20:14:14) at 440 kg. Weedkiller: Dicamba with mecoprop and MCPA ('Tetralex Plus' at 7.0 l in 220 l).

Seed: Sultan, infected with smut, sown at 160 kg.

Cultivations, etc.: Ploughed: 6 Nov, 1974. Spring-tine cultivated: 14 and 21 Apr, 1975. Rotary cultivated and seed sown: 23 Apr. NPK applied: 25 Apr. Weedkiller applied: 6 June. Combine harvested: 26 Aug. Previous crops: Beans 1973, winter wheat 1974.

NOTE: Counts of mildew were made three times, and of smut and eyespot once.

75/R/B/6

GRAIN TONNES/HECTARE

*** TABLES OF MEANS ***

FUNGICIDE	NONE	BENOMYL	ETHIRIMO	MBC	NF 48	THIOPHAN	MEAN
	2.82	2.99	2.71	2.96	2.99	2.59	2.84

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

TABLE	FUNGICIDE
SED	0.204

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

STRATUM	DF	SE	CV%
BLOCK.WP	15	0.288	10.1

GRAIN MEAN DM% 88.0

PLOT AREA HARVESTED 0.00151