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RESEARCH

## Yields of the Field Experiments 1975

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

#### Rothamsted Research

Rothamsted Research (1976) 75/ R/B/6 - *Systemic Fungicide Study - Barley* ; Yields Of The Field Experiments 1975, pp 318 - 319 - DOI: <https://doi.org/10.23637/ERADOC-1-141>

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 ('Tetralax 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 \*\*\*

FUNGCIDE	NONE	BENOMYL	EPHIRIMO	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	FUNGCIDE
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