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## Yields of the Field Experiments 1973

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### 73/R/BS/3 - Systemic Fungicide Study - Spring Barley

#### Rothamsted Research

Rothamsted Research (1974) 73/R/BS/3 - Systemic Fungicide Study - Spring Barley ; Yields Of The Field Experiments 1973, pp 324 - 325 - DOI: <https://doi.org/10.23637/ERADOC-1-98>

73/R/BS/3

SPRING BARLEY

SYSTEMIC FUNGICIDE STUDY

Object: To study the effectiveness of different methyl benzimidazol-2-ylcarbamic acid (MBC) precursors and to relate chemical measurements of persistence, movement and conversion to MBC to field performance - Great Harpenden II.

Sponsors: I.J. Graham-Bryce, I.H. Williams.

Design: 6 randomised blocks of 4 plots.

Whole plot dimensions: 2.41 x 9.14. Area harvested: 0.00151.

Treatments: Fungicidal seed dressings:	FUNGICIDE
None	O
Benomyl	B
NF 48	N
Thiophanate methyl	T

All treatments applied at 0.9 kg/126 kg seed.

Basal applications: Manures: 440 kg (20:15:15) combine drilled. Weed-killer: MCPA, mecoprop and dicamba ('Tetralex plus' at 7.0 l in 220 l).

Seed: Sultan (smut infected seed, not dressed apart from treatments) sown at 160 kg.

Cultivations, etc.: Deep-tine cultivated: 25 Aug, 1972. Ploughed: 24 Nov. Seed sown: 17 Mar, 1973. Weedkiller applied: 15 May. Combine harvested: 11 Aug. Previous crops: Beans 1971, barley 1972.

NOTE: Plant and soil samples were taken for residue analyses of the three fungicides. Counts of mildew were made three times and of smut once.

Standard error per plot.

Grain, tonnes/hectare: 0.262 or 4.9% (15 d.f.)

73/R/BS/3

TABLES OF MEANS

GRAIN: TONNES/HECTARE

FUNGICIDE				
O	B	N	T	Mean
4.88	5.57	5.71	5.34	5.37

STANDARD ERROR OF DIFFERENCES

FUNGICIDE

0.152

Mean D.M. % 86.1