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74/R/B/5 Systemic Fungicides Study - Barley

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74/R/E/5

BARLEY

SYSTEMIC FUNGICIDE STUDY

Object: To study the effectiveness of different methyl benzimidazol-2-yl-carbamate (MBC) precursors and to relate chemical measurements of persistence, movement and conversion to MBC to field performance - Delafield.

Sponsor: I.J. Graham-Bryce.

Design: 3 randomised blocks of 6 plots.

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

Treatments: Fungicidal seed dressings (at 1.0 kg/ha):	FUNGICIDE
None	None
Benomyl	Benomyl
Carbendazim	Carbenda
Cypendazol	Cypendaz
Thiophanate methyl	Thiophan
R 28921 (2-((3-methoxy carbonyl)-thioureido)-0, 0-diethyl-phosphoranilide)	R 28921

NOTE: Seed was naturally infected with loose smut (*Ustilago nuda*).

Basal applications: Manures: (0:20:20) at 1060 kg. (20:14:14) at 440 kg.
Weedkiller: Dicamba with mecoprop and MCPA ('Tetralex Plus' at 7.0 l in 220 l).

Seed: Sultan, sown at 160 kg.

Cultivations, etc.: PK applied: 10 Sept, 1973. Ploughed: 28 Nov. NPK applied, spring-time cultivated twice: 1 Apr, 1974. Seed sown: 3 Apr. Weedkiller applied: 17 Apr. Combine harvested: 22 Aug. Previous crops: Potatoes 1972, winter wheat 1973.

NOTES: Plant counts were made shortly after germination. Loose smut (*Ustilago nuda*) was assessed at end of June, eyespot (*Cercospora herpotrichoides*) in early July and mildew (*Erysiphe graminis*) on three occasions.

Standard error per plot.

Grain, tonnes/hectare: 0.200 or 4.4% (10 d.f.).

74/R/B/5

TABLES OF MEANS

GRAIN: TONNES/HECTARE

FUNGICIDE						
None	Benomyl	Carbenda	Cypendaz	Thiophan	R 28921	Mean
3.81	4.86	4.53	4.86	5.02	4.04	4.52

STANDARD ERROR OF DIFFERENCES

FUNGICIDE

0.163

Mean D.M.% 87.9