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Yields of the Field Experiments 1975

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75/ R/CS/139 - Fungicides & K - Barley

Rothamsted Research

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75/R/CS/139

FUNGICIDES AND K

Object: To study the effects of fungicides and rates of potassium on the incidence of mildew and yield of barley - W. Barnfield II.

Sponsor: J.F. Jenkyn.

The second year, barley.

For previous year see 74/R/CS/139.

Design: 3 randomised blocks of 16 plots.

Whole plot dimensions: 4.27 x 20.1.

Treatments (Cumulative on 1974): All combinations of:-

1. Fungicides:

	FUNGICIDE
None (duplicated)	NONE
Ethirimol as a seed dressing (commercially dressed)	ETHIRIMOL
Tridemorph foliar spray (0.53 kg in 340 l)	TRIDEMOR

2. Potassium (kg K₂O):

	K ₂ O
None	0
50	50
100	100
200	200

Basal applications: Manures: (30:13:0) at 340 kg combine drilled. Weed-killer: Dicamba, with mecoprop and MCPA ('Banlene Plus' at 5.6 l in 220 l).

Seed: Julia, sown at 160 kg.

Cultivations, etc.: Ploughed: 2 Nov, 1974. Spring-tine cultivated, K applied, power harrowed and seed sown: 28 Feb, 1975. Weedkiller applied: 11 May. Tridemorph applied: 5 June. Combine harvested: 6 Aug. Previous crops: Barley 1973 and 1974.

NOTE: Mildew and Rhynchosporium were assessed on 11 June and 8 July.

75/R/CS/139

*** TABLES OF MEANS ***

GRAIN TONNES/HECTARE

K2O	0	50	100	200	MEAN
FUNGCIDE					
NONE	4.48	4.90	5.15	5.42	4.99
ETHIRIMO	4.62	5.61	5.62	5.79	5.41
TRIDEMOR	4.45	5.56	5.63	6.04	5.42
MEAN	4.51	5.24	5.38	5.67	5.27

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

TABLE	FUNGCIDE	K2O	FUNGCIDE K2O
SED	0.292(1) 0.337(2)	0.337	0.476(3) 0.583(1) 0.674(2)

- (1) NONE V ETHIRIMO OR TRIDEMOR
(2) ETHIRIMO V TRIDEMOR
(3) NONE

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

STRATUM	DF	SE	CV%
UNITS	36	0.825	15.9

GRAIN MEAN DM% 87.2

PLOT AREA HARVESTED 0.00429