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71/R/WW/7 Systemic Fungicides - W. Wheat

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71/R/WW/7

WINTER WHEAT

SYSTEMIC FUNGICIDES

Object: To study the effects of a range of systemic fungicides on yield and pathogens of wheat - West Barnfield II.

Design: 3 randomised blocks of 9 plots.

Whole plot dimensions: 2.67 x 9.14. Area harvested: 0.00087.

Treatments:

No fungicide (plus 337 l) (2 plots per block) (O)
and

Seed dressings	Sprays (applied on two occasions)	
Benomyl 0.28 kg	1.12 kg in 337 l	(B)
Ethirimol 1.12 kg	1.12 kg in 337 l	(E)
Furidazole 0.28 kg	1.12 kg in 674 l	(F)
EL 273 0.034 kg a.i.	44.5 ml a.i. in 337 l	(L)
Organo-mercury 0.42 kg of formulated material	Nil (plus 337 l)	(M)
Thiophanate methyl 1.35 kg	1.68 kg in 337 l	(T)
W524 0.42 kg a.i.	400 ml a.i. in 674 l	(W)

Basal applications: 380 kg (8:20:16) combine drilled. 600 kg 'Nitro-Chalk' in spring. Weedkiller: Paraquat at 0.28 kg ion in 225 l.

Cultivations, etc.: Paraquat applied: 18 Sept, 1970. Ploughed: 25 Sept. Seed combine drilled at 179 kg: 16 Oct. N applied: 14 Apr, 1971. Fungicide sprays applied: 4 May, 2 June. Combine harvested: 27 Aug. Variety: Cama*. Previous crops: Barley 1969, winter wheat 1970.

* Variety susceptible to eyespot (*Cercospora herpotrichoides*) and mildew (*Erysiphe graminis*).

NOTE: Samples were taken for mildew (*Erysiphe graminis*), yellow rust (*Puccinia striiformis*), *Septoria* and foot and root diseases.

Standard error per plot.

Grain, tonnes/hectare: 0.361 or 6.0% (16 d.f.)

71/R/WW/7

SUMMARY OF RESULTS

GRAIN: TONNES/HECTARE

O*	B	E	F	L	M	T	W	Mean
(±0.147)				(±0.208)				
6.10	6.31	6.01	5.82	5.51	6.08	6.30	5.61	5.98

Mean D.M. %: 82.9

* Duplicated level