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71/R/WW/8

WINTER WHEAT

BENOMYL AND EYESPOT

Object: To test the effects of benomyl on the yields and incidence of eyespot (*Cercospora herpotrichoides*) of winter wheat - West Barnfield II.

Design: 3 randomised blocks of 12 plots.

Whole plot dimensions: 2.67 x 9.14. Area harvested: 0.00124.

Treatments: All combinations of:-

1. Varieties: Cappelle (C), Gaines (G).
2. Seed dressings and sprays: None (O) 2 plots per block, organo-mercury seed dressing at 2.24 g per kg of seed (MD), benomyl seed dressing at 1.56 g per kg of seed (BD), benomyl spray at 1.12 kg in 1120 l (BS), benomyl seed dressing and spray each at above rates (BDS).

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: 14 Oct. Benomyl sprays applied: 23 Mar, 1971. N applied: 14 Apr. Combine harvested: 27 Aug. Previous crops: Barley 1969, winter wheat 1970.

NOTE: Samples were taken for estimation of eyespot (*Cercospora herpotrichoides*) and sharp eyespot (*Rhizoctonia solani*) in spring and at harvest.

Standard error per plot.

Grain, tonnes/hectare: 0.463 or 8.1% (22 d.f.)

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SUMMARY OF RESULTS

GRAIN: TONNES/HECTARE

	Q*	MD	BD	BS	BDS	Mean
	(± 0.189)		(± 0.267)			(± 0.109)
C	6.18	6.48	5.91	6.19	6.71	6.28
G	5.06	5.07	4.94	5.45	5.36	5.16
Mean	5.62 (± 0.134)	5.77	5.42 (± 0.189)	5.82	6.04	5.72

Mean D.M. %: 82.2

* Duplicated level