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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