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72/R/WW/7 Winter Wheat Methods of Applying Fungicides

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72/R/WW/7

WINTER WHEAT

METHODS OF APPLYING FUNGICIDES

Object: To study the effects of fungicides, applied to seed or soil, on yields and pathogens of wheat - West Barnfield II.

Sponsors: J. Jenkyn, R.D. Prew.

Design: 3 randomised blocks of 5 plots.

Whole plot dimensions: 2.13 x 13.4. Area harvested: 0.00195.

Treatments: Fungicide (F)

None	(O)
Seed dressings: Organo-mercury fungicide at 425 g of the commercial formulation	(M)
NF48 at 2.28 kg a.i.	(N)
Soil drench after sowing:	
Sandoz fungicide at 11.1 l in 5600 l	(S1)
and at 16.6 l in 5600 l	(S2)

Basal applications: 250 kg (10:24:24) combine drilled, and 600 kg 'Nitro-Chalk' in spring. Weedkillers: Paraquat at 0.42 kg ion in 220 l. MCPA, mecoprop and dicamba ('Banlene Plus' at 5.6 l in 220 l).

Seed: Cama (undressed apart from treatments M and N) sown at 190 kg.

Cultivations, etc.: Paraquat applied: 24 Sept, 1971. Ploughed: 9 Oct. Seed combine drilled: 28 Oct. Soil drench applied: 30 Oct. N applied: 24 Apr, 1972. 'Banlene Plus' applied: 28 Apr. Combine harvested: 26 Aug. Previous crops: Winter wheat 1970, barley 1971.

NOTE: Seedling emergence counts were made in January, and samples taken for root diseases in April and July. Mildew (*Erysiphe graminis*) was assessed in May, June and July, and yellow rust (*Puccinia striiformis*) in June and July.

Standard error per plot.

Grain, tonnes/hectare: 0.426 or 11.1% (8 d.f.)

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TABLE OF MEANS

GRAIN: TONNES/HECTARE

F					Mean
O	M	N	SL	S2	
4.25	3.80	3.64	3.75	3.83	3.85

STANDARD ERROR OF DIFFERENCES

F 0.348

Mean D.M. %: 85.8