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74/R/WW/3 Fungicides - W. Wheat

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74/R/WW/3

WINTER WHEAT

FUNGICIDES

Object: To study the effects of a range of fungicides on foliar and root diseases and yield of winter wheat - West Barnfield II.

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

Design: 2 randomised blocks of 14 plots.

Whole plot dimensions: 2.13 x 13.4, except NC5936/P: 6.40 x 13.4.

Area harvested: 0.00195.

Treatments: Fungicides, rates and methods of application: FUNGICIDE

Fungicide	Method of application (rates as kg a.i.)	
None (3 plots per block)	-	None
'BAS 3000F'	Foliar spray (0.75)	BAS/S
'BAS 3000F' + tridemorph	Foliar spray (0.5 + 0.25 respectively)	BAS+Tr/S
'Dowco 199'	Seed dressing (0.42) + foliar spray (0.5)	Dowco/DS
'Kitazin P'	Seed dressing (0.025) + foliar spray (0.5)	Kitaz/DS
'NC 5936'	Seed dressing (0.063)	NC5936/D
'NC 5936'	Pellets (4.0)	NC5936/P
Organo-mercury	Seed dressing (standard commercial)	OM/D
'PP 395'	Seed dressing (0.28) + foliar spray (0.1)	PP395/DS
'R 28921'	Seed dressing (0.56) + foliar spray (1.0)	28921/DS
'Terrazole'	Seed dressing (0.21)	Terraz/D
Tridemorph	Foliar spray (0.75)	Tridem/S

NOTES: (1) NC5936/P was formulated as 4% a.i. in naphthalene pellets.

(2) Both sprays and pellets were applied on 15 May and 19 June, 1974.

Basal applications: Manures: (10:24:24) at 250 kg combine drilled. 'Nitro-Chalk' at 500 kg. Weedkillers: Dicamba with mecoprop and MCPA ('Banlene Plus' at 5.6 l in 370 l). Paraquat at 0.56 kg ion in 220 l.

Seed: Carna, sown at 200 kg.

Cultivations, etc.: Paraquat applied: 4 Oct, 1973. Ploughed: 10 Oct. Spring-tine cultivated: 29 Oct and again 30 Oct. Seed sown: 31 Oct. N applied: 16 Apr, 1974. Weedkiller applied: 7 May. Combine harvested: 18 Sept. Previous crops: Barley and winter wheat 1972, barley 1973.

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- NOTES: (1) Samples were taken for assessment of foliar diseases on three occasions and twice for root diseases.
(2) Germination was adversely affected by 'NC 5936' seed dressing.

Standard error per plot.

Grain, tonnes/hectare: 0.571 or 8.4% (15 d.f.)

74/R/WW/3

TABLES OF MEANS

GRAIN: TONNES/HECTARE

FUNGICIDE

None	6.73
BAS/S	7.01
BAS+Tr/S	7.06
Dowco/DS	6.56
Kitaz/DS	6.92
NC5936/D	6.40
NC5936/F	6.89
QM/D	6.88
PF395/DS	7.00
28921/DS	7.50
Terraz/D	6.49
Tridem/S	6.69

Mean	6.83
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STANDARD ERRORS OF DIFFERENCES

FUNGICIDE

None v any of remainder	0.466
Between any of remainder	0.571

Mean D.M. % 81.0