

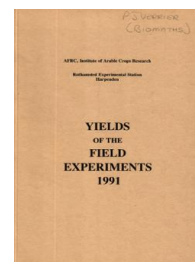
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91/W/R/1 Inputs - W. Rye

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91/W/R/1

WINTER RYE

INPUTS

Object: To study the effects of fungicides and rates of growth regulator on the growth and yield of w. rye - Woburn, Lansome II.

Sponsors: P.D.R. Styles, I.H. Barker.

Design: 3 randomised blocks of 6 plots.

Whole plot dimensions: 3.0 x 10.0.

Treatments: All combinations of:-

1. **G R RATE** Rates of growth regulator:
 - 1 Chlormequat chloride at 1.6 kg in 200 l; 24 Apr, 1991 and 2-chloroethylphosphonic acid at 0.15 kg with mepiquat chloride at 0.30 kg in 200 l; 10 May
 - 2 Chlormequat chloride at 1.6 kg in 200 l; 24 Apr and 2-chloroethylphosphonic acid at 0.31 kg with mepiquat chloride at 0.61 kg in 200 l; 10 May
 - 3 2-chloroethylphosphonic acid at 0.31 kg with mepiquat chloride at 0.61 kg in 200 l; 10 May
2. **FUNGICIDE** Fungicides:
 - F+B Fenpropimorph at 0.38 kg with benodanil at 1.0 kg in 200 l; 23 Apr
 - F+B+P As above plus propiconazole at 0.12 kg; 21 May

Basal applications: Manures: Magnesian limestone at 7.5 t. 'Nitram' at 290 kg. Weedkiller: Pendimethalin at 1.0 kg applied with insecticide in 220 l. Insecticide: Deltamethrin at 5.0 g.

Seed: Halo, sown at 100 kg.

Cultivations, etc.:- Deep tine cultivated with tines 1.5 m apart and 0.45 m deep: 18 Aug, 1990. Magnesian limestone applied: 23 Aug. Ploughed: 24 Aug. Rotary harrowed, seed sown: 5 Oct. Weedkiller and insecticide applied: 23 Nov. N applied: 16 Apr, 1991. Combine harvested: 16 Aug. Previous crops: W. wheat 1989 and 1990.

NOTE: Assessments of lodging were made before harvest.

91/W/R/1

GRAIN TONNES/HECTARE

***** Tables of means *****

FUNGCIDE	F+B	F+B+P	Mean
G R RATE			
1	7.48	8.22	7.85
2	7.45	8.60	8.02
3	6.99	8.14	7.57
Mean	7.31	8.32	7.81

*** Standard errors of differences of means ***

G R RATE	FUNGCIDE	G R RATE
		FUNGCIDE
0.170	0.139	0.240

***** Stratum standard errors and coefficients of variation *****

Stratum	d.f.	s.e.	cv%
BLOCK.WP	10	0.294	3.8

GRAIN MEAN DM% 87.3

PLOT AREA HARVESTED 0.00210