

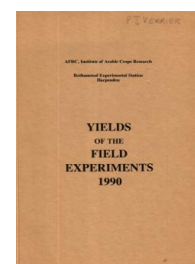
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90/R/WW/1 Varieties - W. Wheat

Rothamsted Research

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90/R/WW/1

WINTER WHEAT

VARIETIES

Object: To study a selection of newer varieties of w. wheat - Highfield VI.

Sponsor: R. Moffitt.

Design: 2 blocks of 2 whole plots split into 10 sub plots.

Whole plot dimensions: 39.0 x 12.0.

Treatments: All combinations of:-

Whole plots

1. **FUNGICIDE** Fungicide:

NONE	None
SPRAYED	Prochloraz at 0.40 kg with fenpropimorph at 0.75 kg in 200 l on 8 May, 1990. Propiconazole at 0.12 kg with carbendazim at 0.25 kg and maneb at 1.6 kg in 200 l on 14 June.

Sub plots:

2. **VARIETY** Varieties:

APOLLO	Apollo
APOSTLE	Apostle
CAMPREMY	Camp Remy
DEAN	Dean
FORTRESS	Fortress
HORNET	Hornet
MERCIA	Mercia
PARADE	Parade
PASTICHE	Pastiche
RIBAND	Riband

NOTE: VARIETY - DEAN and RIBAND were dressed with triadimenol and fuberidazole.

Basal applications: Manures: 'Nitram' at 120 kg and later at 460 kg.
Weedkillers: Isoproturon at 1.7 kg in 200 l. Bromoxynil at 0.19 kg and ioxynil at 0.19 kg with fluroxypyr at 0.20 kg in 200 l.

Seed: Varieties sown at 180 kg.

Cultivations, etc.:- Heavy spring-tine cultivated: 19 Aug, 1989. Deep-tine cultivated with vibrating tines: 1 Nov. Ploughed: 7 Nov. Rotary harrowed, seed sown: 13 Nov. Isoproturon applied: 20 Nov. First N applied: 2 Mar, 1990. Second N applied: 10 Apr. Remaining weedkillers applied: 12 Apr. Combine harvested: 10 Aug. Previous crops: Mixed cereals 1988, w. wheat 1989.

90/R/WW/1

GRAIN TONNES/HECTARE

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

FUNGCIDE VARIETY	NONE	SPRAYED	Mean
APOLLO	8.72	8.80	8.76
APOSTLE	8.53	8.86	8.70
CAMPREMY	7.00	7.34	7.17
DEAN	8.71	9.13	8.92
FORTRESS	6.94	7.49	7.22
HORNET	7.36	8.66	8.01
MERCIA	8.30	8.57	8.43
PARADE	7.74	8.50	8.12
PASTICHE	7.24	7.58	7.41
RIBAND	8.56	9.43	8.99
Mean	7.91	8.44	8.17

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

FUNGCIDE	VARIETY	FUNGCIDE VARIETY
0.369	0.375	0.624
Except when comparing means with the same level(s) of		
FUNGCIDE		0.530

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

Stratum	d.f.	s.e.	cv%
WP.SP	18	0.530	6.5
GRAIN MEAN DM%	88.8		
SUB PLOT AREA HARVESTED	0.00245		