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Yields of the Field Experiments 1983

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Rothamsted Research

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83/R/B/6

SPRING BARLEY

MILDEW SENSITIVITY

Object: To study the effects of varieties with differing resistance genes on the sensitivity of powdery mildew (Erysiphe graminis) to fungicides - Fosters Corner.

Sponsor: D.W. Hollomon.

Design: 2 randomised blocks of 12 plots.

Whole plot dimensions: 9.0 x 9.0.

Treatments: All combinations of:-

1.	VARIETY	Varieties:
	CARNIVAL	
	TRIUMPH	
2.	FUNG SD	Fungicidal seed dressings:
	NONE	None
	ETHIRIMO	Ethirimol at 4 g per kg seed
	TR DMNOL	Triadimenol at 0.4 g per kg seed
3.	FUNG SP	Fungicidal foliar spray:
	NONE	None
	TR DMFON	Triadimefon at 0.12 kg in 250 l on 17 June, 1983

NOTE: The seed was sown at 160 kg.

Basal applications: Manures: (0:18:36) at 690 kg. 'Nitro-Chalk' at 450 kg followed by 250 kg. Weedkillers: Dicamba, mecoprop and MCPA (as 'Herrisol' at 5.0 l) in 250 l.

Cultivations, etc.:- PK applied: 19 Oct, 1982. Ploughed: 25 Oct. Spring-tine cultivated: 8 Mar, 1983. First N applied: 10 Mar. Spring-tine cultivated: 11 Mar. Seed sown: 12 Mar. Weedkillers applied: 24 May. Second N applied: 26 May. Combine harvested: 8 Aug. Previous crops: S. beans 1981, w. wheat 1982.

NOTE: Mildew was assessed on six occasions during May, June and July; scald (Rhynchosporium secalis) was also recorded in May and June. Sensitivity of mildew to triadimenol was assessed by bioassay on two occasions.

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83/R/B/6

GRAIN TONNES/HECTARE

***** TABLES OF MEANS *****

FUNG SD VARIETY	NONE	ETHIRIMO	TR DMNOL	MEAN
CARNIVAL	6.49	6.51	6.98	6.66
TRIUMPH	6.00	6.01	5.95	5.99
MEAN	6.25	6.26	6.47	6.33

FUNG SP VARIETY	NONE	TR DMFON	MEAN
CARNIVAL	6.20	7.13	6.66
TRIUMPH	5.28	6.70	5.99
MEAN	5.74	6.91	6.33

FUNG SP FUNG SD	NONE	TR DMFON	MEAN
NONE	5.68	6.81	6.25
ETHIRIMO	5.72	6.80	6.26
TR DMNOL	5.81	7.13	6.47
MEAN	5.74	6.91	6.33

FUNG SD	NONE		ETHIRIMO		TR DMNOL	
FUNG SP	NONE	TR DMFON	NONE	TR DMFON	NONE	TR DMFON
VARIETY						
CARNIVAL	6.11	6.87	6.08	6.95	6.41	7.56
TRIUMPH	5.26	6.74	5.37	6.66	5.22	6.69

***** STANDARD ERRORS OF DIFFERENCES OF MEANS *****

TABLE	VARIETY	FUNG SD	FUNG SP	VARIETY FUNG SD
SED	0.196	0.240	0.196	0.339

TABLE	VARIETY FUNG SP	FUNG SD FUNG SP	VARIETY FUNG SD FUNG SP
SED	0.277	0.339	0.480

***** STRATUM STANDARD ERRORS AND COEFFICIENTS OF VARIATION *****

STRATUM	DF	SE	CV%
BLOCK.WP	11	0.480	7.6

GRAIN MEAN DM% 87.2

PLOT AREA HARVESTED 0.00248

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