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## Yields of the Field Experiments 1979

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### 79/W/B/2 Winter and Spring Barley Mildew Sensitivity to Ethirimol - Barley

#### Rothamsted Research

Rothamsted Research (1980) *79/W/B/2 Winter and Spring Barley Mildew Sensitivity to Ethirimol - Barley* ; Yields Of The Field Experiments 1979, pp 292 - 294 - DOI:  
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79/W/B/2

- NOTES: (1) Plot dimensions were 8.53 x 8.53 and plots were arranged in sets of three - a central spring barley plot with flanking plots of winter barley. Sides of sets of three plots were separated by 'plots' of spring barley of the same dimensions sprayed with tridemorph, ends of plots were separated by strips of spring barley 9.14 wide sprayed with tridemorph.  
 (2) Tridemorph was applied at 0.53 kg in 250 l.

Basal applications: Manures: (0:20:20) at 310 kg, N at 100 kg as 'Nitro-Chalk'.  
 Weedkillers: Mecoprop with bromoxynil and ioxynil ('Brittox' at 2.5 kg in 250 l). Bromoxynil with ioxynil ('Oxytril CM' at 0.7 kg in 250 l).

Seed: Winter barley, Hoppel sown at 170 kg.  
 Spring barley, Wing sown at 160 kg.

Cultivations, etc.: - Heavy spring-tine cultivated: 11 Sept, 1978. Deep-tine cultivated: 18 Sept. PK applied: 30 Oct. Discd twice: 13 Nov, 14 Nov. Winter barley sown: 15 Nov. Heavy spring-tine cultivated for spring sowing: 17 Apr, 1979. Spring-tine cultivated with crumbler attached: 18. Apr. Spring barley sown: 19 Apr. N applied to all plots: 20 Apr. 'Brittox' applied to winter barley: 15 May. 'Oxytril CM' applied to spring barley: 5 June. Tridemorph applied: 18 June. Winter barley combine harvested: 15 Aug. Spring barley combine harvested: 21 Aug. Previous crops: Potatoes 1977, winter wheat 1978.

NOTE: Leaf samples were taken for mildew (*Erysiphe graminis*) measurements during June.

SPRING BARLEY

GRAIN TONNES/HECTARE

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

FUNG WB SEEDRESS	W O	W E	MEAN
SO	5.37	5.28	5.32
SE	5.58	5.59	5.58
MEAN	5.47	5.43	5.45

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

TABLE	SEEDRESS	FUNG WB	SEEDRESS FUNG WB
SED	0.216	0.216	0.306

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

STRATUM	DF	SE	CV%
BLOCK.WP	9	0.432	7.9
GRAIN MEAN DM%	81.4		
PLOT AREA HARVESTED	0.00243		

79/W/B/2

WINTER BARLEY

GRAIN TONNES/HECTARE

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

FUNG SB	S OT	S ET	MEAN	
SEEDRESS				
WO	5.75	5.71	5.73	
WE	5.92	5.91	5.91	
MEAN	5.83	5.81	5.82	
POSITION	NORTH	SOUTH	MEAN	
SEEDRESS				
WO	5.76	5.70	5.73	
WE	5.66	6.16	5.91	
MEAN	5.71	5.93	5.82	
POSITION	NORTH	SOUTH	MEAN	
FUNG SB				
S OT	5.78	5.89	5.83	
S ET	5.64	5.98	5.81	
MEAN	5.71	5.93	5.82	
FUNG SB	S OT		S ET	
POSITION	NORTH	SOUTH	NORTH	SOUTH
SEEDRESS				
WO	5.96	5.53	5.56	5.87
WE	5.59	6.24	5.73	6.09

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

TABLE	SEEDRESS	FUNG SB	SEEDRESS FUNG SB
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SED	0.196	0.196	0.277
TABLE	SEEDRESS*	FUNG SB*	SEEDRESS* FUNG SB POSITION
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SED	0.229	0.229	0.324

\* ONLY WHEN COMPARING MEANS WITH SAME LEVEL OF POSITION

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

STRATUM	DF	SE	CV%
BLOCK.WP	9	0.392	6.7
BLOCK.WP.SP	12	0.336	5.8

GRAIN MEAN DM% 84.1

SUB PLOT AREA HARVESTED 0.00243