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Yields of the Field Experiments 1984



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84/R/B/8 Mildew Sensitivity - S. Barley

Rothamsted Research

Rothamsted Research (1985) 84/R/B/8 Mildew Sensitivity - S. Barley; Yields Of The Field Experiments 1984, pp 267 - 268 - DOI: https://doi.org/10.23637/ERADOC-1-32

84/R/B/8

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 - Delafield.

Sponsor: D.W. Hollomon.

Design: 2 randomised blocks of 16 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+FU Triadimenol at 0.38 g per kg seed and fuberidazole

at 0.045 g per kg seed (duplicated)

3. FUNG SP Fungicidal foliar spray:

NONE None

TRIADIME Triadimenol at 0.12 kg in 500 l on 11 June, 1984

NOTES: (1) The seed was sown at 160 kg.

(2) Plots were divided by 3m sown paths of undressed Golden Promise.

Basal applications: Manures: 'Nitro-Chalk' at 500 kg. Weedkillers: Dicamba, mecoprop and MCPA (as 'Herrisol' at 5.0 l) in 250 l.

Cultivations, etc.:- Ploughed: 12 Dec, 1983. N applied: 9 Mar, 1984. Spring-tine cultivated: 16 Mar. Rotary harrowed, seed sown: 19 Mar. Weedkillers applied: 16 May. Combine harvested: 18 Aug. Previous crops: S. beans 1982, w. wheat 1983.

NOTE: Mildew was assessed on five occasions from mid-May to early July. Sensitivity of mildew to ethirimol and triadimenol was assessed by bioassay in early June.

84/R/B/8

GRAIN TONNES/HECTARE

**** TABLES OF MEANS ****

FUNG SD	NONE	ETHIRIMO	TR+F	U ME	AN		
	6.92	7.23	7.1	3 7.	10		
IKTUMPH	0.43	7.00	0.5	0 0.	.57		
MEAN	6.67	7.16	6.7	5 6.	83		
FUNO CD	NONE	TOTADIME	MEA	M			
	NUNE	IKIADIME	MEA	il V			
	6.88	7.33	7.1	0			
IKIUMPH	5.94	7.13	0.5	,			
MEAN	6.41	7.26	6.8	3			
	NONE	TRIADIME	MEA	IN			
FUNG SD							
NONE	6.42	6.93	6.6	57			
ETHIRIMO	6.88	7.43	7.1	.6			
		7.33	6.7	15			
MEAN	6.41	7.26	6.8	33			
	FIING SD	NONE		FTHIRIMO		TR+FU	
			TOTADIME		TOTADIME		TRIADIME
		NONE	IKIADIME	HONL	INTAUTHL	HONE	INTROTIFIE
			6 05	7 10	7 00	c 70	7 52
	TRIUMPH	5.95	6.91	6.58	7.58	5.62	7.13
	VARIETY CARNIVAL TRIUMPH MEAN FUNG SP VARIETY CARNIVAL TRIUMPH MEAN FUNG SP FUNG SD NONE ETHIRIMO TR+FU	VARIETY CARNIVAL TRIUMPH 6.43 MEAN 6.67 FUNG SP VARIETY CARNIVAL TRIUMPH 6.88 TRIUMPH 5.94 MEAN 6.41 FUNG SP FUNG SD NONE FUNG SD NONE ETHIRIMO TR+FU 6.88 TR+FU 6.17 MEAN 6.41 FUNG SD FUNG SD FUNG SD FUNG SD FUNG SD FUNG SD FUNG SP VARIETY CARNIVAL	VARIETY CARNIVAL TRIUMPH 6.92 7.23 7.08 MEAN 6.67 7.16 FUNG SP VARIETY CARNIVAL TRIUMPH 5.94 7.19 MEAN 6.41 7.26 FUNG SP NONE TRIADIME TRIUMPH 5.94 7.19 MEAN 6.41 7.26 FUNG SD NONE FUNG SD NONE 6.42 6.93 ETHIRIMO 6.88 7.43 TR+FU 6.17 7.33 MEAN 6.41 7.26 FUNG SD NONE FUNG SD NONE FUNG SD NONE FUNG SD VARIETY CARNIVAL 6.88	VARIETY CARNIVAL TRIUMPH 6.92 7.23 7.1 TRIUMPH 6.43 7.08 6.3 MEAN 6.67 7.16 6.7 FUNG SP VARIETY CARNIVAL TRIUMPH 5.94 7.19 6.5 MEAN 6.41 7.26 6.8 FUNG SP NONE TRIADIME MEAN FUNG SD NONE FUNG SD NONE ETHIRIMO 6.88 7.43 7.1 TR+FU 6.17 7.33 6.7 MEAN 6.41 7.26 6.8 FUNG SD NONE FUNG SD NONE TRIADIME MEAN FUNG SD NONE TRIADIME MEAN FUNG SD NONE FUNG SD NONE FUNG SD NONE FUNG SD VARIETY CARNIVAL 6.88 6.95	VARIETY CARNIVAL TRIUMPH 6.92 7.23 7.13 7. TRIUMPH 6.43 7.08 6.38 6. MEAN 6.67 7.16 6.75 6. FUNG SP VARIETY CARNIVAL TRIUMPH 5.94 7.19 6.57 MEAN 6.41 7.26 6.83 FUNG SP NONE TRIADIME MEAN FUNG SP NONE TRIADIME MEAN FUNG SP NONE TRIADIME MEAN FUNG SD NONE 6.42 6.93 6.67 ETHIRIMO TR+FU 6.17 7.33 6.75 MEAN 6.41 7.26 6.83 FUNG SD NONE TRIADIME MEAN FUNG SD NONE TRIADIME MEAN FUNG SD NONE TRIADIME TRIADIME MEAN FUNG SD NONE TRIADIME TRIADIME MEAN FUNG SD NONE TRIADIME TRIADIM	VARIETY CARNIVAL TRIUMPH 6.43 7.08 6.38 6.57 MEAN 6.67 7.16 6.75 6.83 FUNG SP VARIETY CARNIVAL TRIUMPH 5.94 7.19 6.57 MEAN 6.41 7.26 6.83 FUNG SP NONE TRIADIME MEAN FUNG SD NONE 6.42 6.93 6.67 ETHIRIMO 6.88 7.43 7.16 TR+FU 6.17 7.33 6.75 MEAN 6.41 7.26 6.83 FUNG SD NONE FUNG SD NONE TRIADIME MEAN FUNG SD NONE TRIADIME MEAN FUNG SD NONE TRIADIME MEAN FUNG SD NONE TRIADIME NONE TRIADIME NONE TRIADIME VARIETY CARNIVAL 6.88 6.95 7.18 7.29	VARIETY CARNIVAL CARNIVAL TRIUMPH 6.43 7.08 6.38 6.57 MEAN 6.67 7.16 6.75 6.83 FUNG SP VARIETY CARNIVAL TRIUMPH 5.94 7.19 6.57 MEAN 6.41 7.26 6.83 FUNG SP NONE TRIADIME MEAN FUNG SD NONE 6.42 6.93 6.67 ETHIRIMO 6.88 7.43 7.16 TR+FU 6.17 7.33 6.75 MEAN 6.41 7.26 6.83 FUNG SD NONE TRIADIME MEAN FUNG SD NONE TRIADIME TRHFU 6.17 7.33 6.75 MEAN 6.41 7.26 6.83 FUNG SD NONE FUNG SD NONE FUNG SD NONE FUNG SP NONE TRIADIME NONE TRHFU NONE VARIETY CARNIVAL 6.88 6.95 7.18 7.29 6.73

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

TABLE	VARIETY	FUNG SD	FUNG SP	VARIETY FUNG SD	
SED	0.138	0.196 0.169	0.138	0.277 0.239	MIN REP MAX-MIN
TABLE	VARIETY FUNG SP	FUNG SD FUNG SP	VARIETY FUNG SD FUNG SP		
SED	0.196	0.277 0.239 0.196	0.391 0.339 0.277	MIN REP MAX-MIN MAX REP	

FUNG SD
MAX REP TR FU ONLY
MAX-MIN TR FU V ANY OF REMAINDER
MIN REP ANY OF REMAINDER

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

STRATUM DF SE CV% BLOCK.WP 19 0.391 5.7

GRAIN MEAN DM% 86.7 PLOT AREA HARVESTED 0.00248

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