

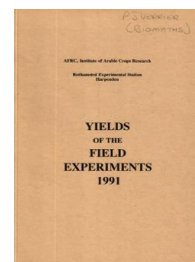
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91/R/WW/1 Eyespot Types and Yield - W. Wheat

Rothamsted Research

Rothamsted Research (1992) *91/R/WW/1 Eyespot Types and Yield - W. Wheat* ; Yields Of The Field Experiments 1991, pp 112 - 113 - DOI: <https://doi.org/10.23637/ERADOC-1-46>

91/R/WW/1

WINTER WHEAT

EYESPOT TYPES AND YIELD

Object: To compare the effects of eyespot (*Pseudocercosporella herpotrichoides*) caused by the R-type and the W-type on the yield of w. wheat - Summerdells II.

Sponsors: G.L. Bateman, J.F. Jenkyn.

Design: 4 randomised blocks of 12 plots.

Whole plot dimensions: 3.0 x 6.0.

Treatments: All combinations of:

1. **EYE TYPE** Eyespot types:

R	Rye
W	Wheat

2. **INOCDATE** Dates of inoculation of eyespot types:

NOV	November 23, 1990
MAR	March 13, 1991
NOV+MAR	Both above dates

plus two extra treatments:

EXTRA

NONE	None (quintuplicated)
NO I PRO	No inoculation, sprayed prochloraz at 0.40 kg in 200 l on 12 Apr, 1991.

NOTE: The eyespot inoculum was sprayed on as a spore suspension.

Basal applications: Manure: 'Nitram' at 460 kg. Weedkillers: Bifenox at 0.95 kg and chlorotoluron at 3.5 kg in 200 l. Glyphosate at 1.4 kg in 200 l.

Seed: Mercia, sown at 170 kg.

Cultivations, etc.: - Deep-tine cultivated: 6 Oct, 1990. Ploughed, furrow pressed: 10 Oct. Rotary harrowed, seed sown: 12 Oct. Bifenox and chlorotoluron applied: 13 Nov. N applied: 3 Apr, 1991. Glyphosate applied: 12 Aug. Combine harvested: 22 Aug. Previous crops: W. oilseed rape 1989, potatoes 1990.

NOTE: Plant samples were taken in early May and early July for assessment of eyespot and sharp eyespot.

91/R/WW/1

GRAIN TONNES/HECTARE

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

INOCDATE EYE TYPE	NOV	MAR	NOV+MAR	Mean
R	7.47	7.48	7.24	7.40
W	7.66	7.70	7.47	7.61
Mean	7.56	7.59	7.35	7.50
EXTRA	NONE	NO I PRO	Mean	
	7.53	7.53	7.53	
GRAND MEAN	7.51			

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

EYE TYPE	INOCDATE	EYE TYPE INOCDATE
0.088	0.108	0.153

SED for comparing **EXTRA** NONE and N I PRO is 0.119

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	37	0.217	2.9
GRAIN MEAN DM%	86.5		
PLOT AREA HARVESTED	0.00138		