

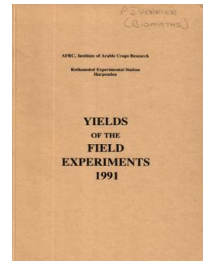
Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1991

[Full Table of Content](#)



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		