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Yields of the Field Experiments 1992



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Rothamsted Research

Rothamsted Research (1993) 92/R/WW/1 Eyespot Types and Yield - W. Wheat; Yields Of The Field Experiments 1992, pp 102 - 104 - DOI: https://doi.org/10.23637/ERADOC-1-47

92/R/WW/1

WINTER WHEAT

EYESPOT TYPES AND YIELD

Object: To compare the effects of eyespot (Pseudocercosporella herpotrichoides) caused by the R- and the W-type of the fungus on the yield of w. wheat - Great Field I/II.

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

Design: 4 randomised blocks of 14 plots.

Whole plot dimensions: 3.0 x 12.0.

Treatments: All combinations of:

EYE TYPE Eyespot types:

RYE Rye WHEAT Wheat

2. INOCDATE Dates of inoculation of eyespot types:

AUTUMN Autumn SPRING Spring

AUT+SPR Autumn and spring

3. FUNCCIDE Prochloraz in spring:

NONE None
PROCHLOR Prochloraz

plus two extra treatments:

NO INOC No inoculation, prochloraz in spring:

NONE EX None
PROCH EX Prochloraz

Experimental diary:

06-Aug-91 : B : Straw chopped.

05-Sep-91 : B : Gramoxone 100 at 3.0 1 in 200 1. 18-Sep-91 : B : Heavy spring-tine cultivated. 20-Sep-91 : B : Heavy spring-tine cultivated.

25-Sep-91 : B : Disced, rotary harrowed, Talon drilled at 240 kg,

rolled.

29-Nov-91 : B : Stefes IPU at 1.0 1 and Stomp 400 at 2.5 1 in 200 1.

: B : Draza at 5.5 kg.

18-Feb-92 : B : PK as (0:18:36) at 940 kg.

01-Apr-92 : T : FUNGCIDE PROCHLOR and PROCH EX: Sportak 45 at 0.90 1 in

200 1.

09-Apr-92 : B : New 5C Cycocel at 2.3 1 in 200 1.

13-Apr-92 : B : 34.5% N at 440 kg. 01-Sep-92 : B : Combine harvested.

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92/R/WW/1

Previous crops: W. oilseed rape 1990 and 1991.

NOTE: Plant samples were taken in July and assessed for eyespot and sharp eyespot. The eyespot was cultured and identified as the R-type or W-type of the fungus.

GRAIN TONNES/HECTARE

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

	EYE TYPE		1	RYE	WHE	AT	N	l ean			
	FUNGCIDE	700	_		_		_				
	NONE			.42		19		7.30			
	PROCHLOR	2	7	.67	7.	77	7	7.72			
	Mear	1	7	.54	7.	48	7	7.51			
	INOCDATE	3	AUT	UMN	SPRI	NG	AUT+	+SPR		Mean	n
	FUNGCIDE	3									
	NONE	3	7	.24	7.	39	7	7.29		7.3	0
	PROCHLOR	3	7	.65	7.	28	8	3.23		7.7	2
	Mean	n	7	.44	7.	33	7	7.76		7.5	1
	INOCDATE	E	AUT	UMN	SPRI	NG	AUT-	+SPR		Mean	n
	EYE TYPI	3									
	RYI	E	7	.24	7.	61	•	7.78		7.5	4
	WHEAT	Г	7	.65	7.	.05	•	7.74		7.4	8
	Mean	n	7	.44	7.	.33		7.76		7.5	1
			IN	OCDATE	7	AUTUN	N.	SPRIN	1G	AUT	+SPR
	FUNGCID	E	EY	E TYPE							
	NON	Ε		RYE		7.3	33	7.4			7.45
				WHEAT		7.1	L5	7.3	30		7.12
	PROCHLO	R		RYE		7.1	15	7.7	75		8.11
				WHEAT		8.1	14	6.8	31		8.35
NO	INOC	NONE	EX	PROCH	EX		Mean				
		7.	.98	8	.12		8.05				

GRAND MEAN 7.59

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

FUNGCIDE	EYE TYPE	INOCDATE	FUNGCIDE EYE TYPE
0.241	0.241	0.295	0.341
FUNGCIDE INOCDATE	EYE TYPE INOCDATE	FUNGCIDE EYE TYPE INOCDATE	NO INOC
0.417	0.417	0.590	0.590

92/R/WW/1

GRAIN TONNES/HECTARE

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

Stratum

d.f.

s.e.

CV%

BLOCK.WP

39

0.834

11.0

MEAN DM% 76.0

PLOT AREA HARVESTED 0.00136