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

Rothamsted Research

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92/R/WW/1

WINTER WHEAT

EYESPOT TYPES AND YIELD

Object: To compare the effects of eyespot (*Pseudocercospora 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:

1. **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. **FUNGICIDE** 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 l in 200 l.
- 18-Sep-91 : B : Heavy spring-tine cultivated.
- 20-Sep-91 : B : Heavy spring-tine cultivated.
- 25-Sep-91 : B : Discd, rotary harrowed, Talon drilled at 240 kg, rolled.
- 29-Nov-91 : B : Stefes IPU at 1.0 l and Stomp 400 at 2.5 l in 200 l.
 : B : Draza at 5.5 kg.
- 18-Feb-92 : B : PK as (0:18:36) at 940 kg.
- 01-Apr-92 : T : **FUNGICIDE** PROCHLOR and PROCH EX: Sportak 45 at 0.90 l in 200 l.
- 09-Apr-92 : B : New 5C Cycocel at 2.3 l in 200 l.
- 13-Apr-92 : B : 34.5% N at 440 kg.
- 01-Sep-92 : B : Combine harvested.

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	RYE	WHEAT	Mean
FUNGCIDE			
NONE	7.42	7.19	7.30
PROCHLOR	7.67	7.77	7.72
Mean	7.54	7.48	7.51

INOCDATE	AUTUMN	SPRING	AUT+SPR	Mean
FUNGCIDE				
NONE	7.24	7.39	7.29	7.30
PROCHLOR	7.65	7.28	8.23	7.72
Mean	7.44	7.33	7.76	7.51

INOCDATE	AUTUMN	SPRING	AUT+SPR	Mean
EYE TYPE				
RYE	7.24	7.61	7.78	7.54
WHEAT	7.65	7.05	7.74	7.48
Mean	7.44	7.33	7.76	7.51

FUNGCIDE	INOCDATE	AUTUMN	SPRING	AUT+SPR
NONE	EYE TYPE			
	RYE	7.33	7.47	7.45
PROCHLOR	WHEAT	7.15	7.30	7.12
	RYE	7.15	7.75	8.11
	WHEAT	8.14	6.81	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	EYE TYPE	FUNGCIDE	NO INOC
INOCDATE	INOCDATE	EYE TYPE	
		INOCDATE	
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		