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## Yields of the Field Experiments 1993

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### 93/R/CS/302 Eyespot Resistance to Mbc - W. Wheat

#### Rothamsted Research

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93/R/CS/302

**EYESPOT RESISTANCE TO MBC**

**Object:** To study the development of resistance to MBC fungicides in eyespot and the ability of resistant strains to survive, spread and infect - Meadow.

**Sponsor:** G.L. Bateman.

The ninth year, w. wheat.

For previous years see 85-92/R/CS/302.

**Design:** 2 randomised blocks of 4 plots split into 6 sub plots.

**Whole plot dimensions:** 12.0 x 24.0.

**Treatments:** All combinations of:-

Whole plots

1. <b>FUNGICIDE</b>	Fungicides applied cumulatively 1985-93:
NONE	None
CARB	Carbendazim at 0.25 kg
PRO	Prochloraz at 0.40 kg from 1985 to 1992, 0.50 kg in 1993
CARB+PRO	Carbendazim at 0.25 kg + prochloraz at 0.40 kg from 1985 to 1992, 0.50 kg in 1993

Sub plots

2. <b>EYE INOC</b>	Eyespot inoculum, applied in first year only:
NATURAL	Natural background population (duplicated)
W 19R 1S	Inoculated with wheat strains in proportion 19 resistant to one sensitive
W 1R 19S	As above but one resistant to 19 sensitive
R 19R 1S	Inoculated with rye strains, 19 resistant to one sensitive
R 1R 19S	As above but one resistant to 19 sensitive

**NOTE:** The eyespot inoculum was colonised on oat seed and this was broadcast in October, 1984.

**Experimental diary:**

- 13-Aug-92 : B : Deep-tine cultivated with vibrating tines 60 cm apart and 45 cm deep.
- 08-Sep-92 : B : Ploughed, furrow pressed.
- 29-Sep-92 : B : Rotary harrowed, Mercia, dressed Cerevax, drilled at 380 seeds per square metre.
- 08-Dec-92 : T : **FUNGICIDE** CARB: Tripart Defensor FL at 0.50 l in 200 l.
- : T : **FUNGICIDE** PRO: Sportak 45 at 1.1 l in 200 l.
- : T : **FUNGICIDE** CARB+PRO: Tripart Defensor FL at 0.50 l and Sportak 45 at 1.1 l in 200 l.

