

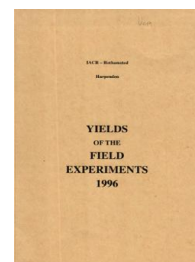
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## Yields of the Field Experiments 1996

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

#### Rothamsted Research

Rothamsted Research (1997) *96/R/CS/302 Eyespot Resistance to Mbc - W. Wheat* ; Yields Of The Field Experiments 1996, pp 61 - 62 - DOI: <https://doi.org/10.23637/ERADOC-1-51>

96/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 twelfth year, w. wheat.

For previous years see 85-93,95/R/CS/302

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

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

**Sub-plot dimensions:** 4.5 x 6.0.

**Treatments:** All combinations of:-

Whole plots

- |                    |  |
|--------------------|--|
| 1. <b>FUNGCIDE</b> | Fungicide applied cumulatively 1985-93 and 1995-6:                                 |
| NONE               | None   |
| CARB               | Carbendazim at 0.25 kg   |
| PRO                | Prochloraz at 0.40 kg (0.50 kg in 1993, 1995 and 1996)                             |
| CARB+PRO           | Carbendazim at 0.25 kg with prochloraz at 0.40 kg (0.50 kg in 1993, 1995 and 1996) |

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 inoculum was colonized on oat seed and broadcast in October, 1984.

**Experimental diary:**

- 13-Sep-95 : B : Ploughed and furrow pressed.  
28-Sep-95 : B : Rotary harrowed, Hereward, dressed Panoctine, drilled at 380 seeds per m<sup>2</sup>.  
20-Nov-95 : B : Panther at 2.0 l in 200 l.  
11-Mar-96 : B : 34.5% N at 116 kg.  
03-Apr-96 : T : **FUNGCIDE** CARB+PRO: Barclay Eyetak at 1.1 l with Tripart Defensor FL at 0.5 l in 200 l.  
          : T : **FUNGCIDE** PRO: Barclay Eyetak at 1.1 l in 200 l.  
          : T : **FUNGCIDE** CARB: Tripart Defensor FL at 0.5 l in 200 l.

