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## Yields of the Field Experiments 1999

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

#### Rothamsted Research

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99/R/RN/22

**Experimental diary:**

W. lupins:

16-Oct-98 : T : tm) Stomp 400 SC at 5.0 l in 220 l.  
          : T : tm) Decis at 300 ml in 220 l.  
08-Feb-99 : T : Carbetamex at 3.0 kg in 220 l.  
17-Mar-99 : T : tm) Folicur at 0.5 l in 200 l.  
          : T : tm) Rovral Flo at 1.0 l in 200 l.

**NOTE:** Yields are presented by crop not by **ROTATION**. Winter peas and lupins failed and therefore there are no yields.

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

WINTER CROPS	GRAIN TONNES/ HECTARE	GRAIN MEAN DM%
OATS	7.44	89.4
WHEAT	10.30	89.0
RAPE	3.96	90.2
LINSEED	1.40	93.1
BEANS	5.39	78.7

SUB-PLOT AREA HARVESTED 0.00230

99/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 15th year, w. wheat.

For previous years see 85-93,95-98/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>FUNGICIDE</b> | Fungicide applied cumulatively 1985-93 and 1995-99: |
| NONE                | None  |
| CARB                | Carbendazim at 0.25 kg                              |
| PRO                 | Prochloraz at 0.40 kg (0.50 kg in 1993, 1995-1999)  |
| CARB+PRO            | Carbendazim and prochloraz as above                 |

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:**

18-Sep-98	: B :	: Ploughed and furrow pressed, started.
19-Sep-98	: B :	: Ploughed and furrow pressed, completed.
21-Sep-98	: B :	: Combination drilled, Hereward, tr. Beret Gold, at 380 seeds/m <sup>2</sup> with the Accord drill.
01-Dec-98	: B :	: tm)Amazon at 1.0 l in 200 l.
	: B :	: tm)Isogard at 2.0 l in 200 l.
	: B :	: tm)Stefes Cypermethrin 2 at 250 ml in 200 l.
	: B :	: tm)Cropoil at 1.0 l in 200 l.
04-Mar-99	: B :	: 34.5% N at 145 kg.
17-Mar-99	: T : CARB	: Stefes C-Flo 2 at 0.5 l in 200 l.
	: T : CARB+PRO	: Sportak 45 EW at 1.1 l with Stefes C-Flo 2 at 0.5 l in 200 l.