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## Yields of the Field Experiments 1988

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### 88/R/WW/8 Control of Mbc-resistant Eyespot - W. Wheat

#### Rothamsted Research

Rothamsted Research (1989) *88/R/WW/8 Control of Mbc-resistant Eyespot - W. Wheat* ; Yields Of The Field Experiments 1988, pp 160 - 161 - DOI: <https://doi.org/10.23637/ERADOC-1-43>

88/R/WW/8

WINTER WHEAT

CONTROL OF MBC-RESISTANT EYESPOT

**Object:** To investigate the control of MBC-resistant eyespot by methyl N-(3,5,dichlorophenyl) - carbamate (MDPC) - Sawyers II.

**Sponsors:** G.L. Bateman, D.W. Hollomon (LARS).

**Design:** 3 randomised blocks of 8 plots.

**Whole plot dimensions:** 3.0 x 10.0.

**Treatments:** All combinations of:-

1. **INOCULUM**            Type of inoculum applied:  
  
    RESI                MBC-resistant eyespot  
    SENS                MBC-sensitive eyespot
  
2. **FUNGICIDE**        Type of fungicide applied:  
  
    NONE                None  
    CAR                 Carbendazim at 0.25 kg  
    CAR+MDPC          Carbendazim at 0.25 kg + MDPC at 1.0 kg  
    MDPC                MDPC at 1.0 kg

**NOTES:** (1) The inoculum was colonised on autoclaved oat seed and broadcast just after emergence.  
(2) Fungicide treatments were applied in 220 l on 17 Apr, 1988.

**Basal applications:** Manures: 'Nitram' at 400 kg. Weedkillers: Chlortoluron at 3.5 kg in 200 l. Mecoprop at 3.0 kg in 200 l.

**Seed:** Avalon, sown at 180 kg.

**Cultivations, etc.:-** Deep-tine cultivated: 5 Oct, 1987. Heavy spring-tine cultivated, spring-tine cultivated, rotary harrowed, seed sown: 6 Oct. Chlortoluron applied: 8 Nov. N applied: 22 Apr, 1988. Mecoprop applied: 25 Apr. Combine harvested: 23 Aug. Previous crops: W. wheat 1986, potatoes 1987.

**NOTE:** Eyespot was assessed at the beginning of April and in July.

88/R/WW/8

GRAIN TONNES/HECTARE

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

FUNGCIDE INOCULUM	NONE	CAR	CAR+MDPC	MDPC	Mean
RESI	8.43	8.38	8.24	8.32	8.35
SENS	7.88	7.81	8.37	8.15	8.05
Mean	8.16	8.10	8.31	8.23	8.20

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

INOCULUM	FUNGCIDE	INOCULUM FUNGCIDE
0.144	0.204	0.289

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	14	0.353	4.3

GRAIN MEAN DM% 83.4

SUB PLOT AREA HARVESTED 0.00201 (1st block) or 0.00273 (other blocks)