

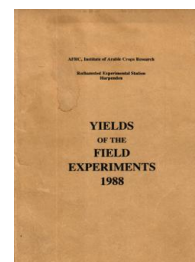
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88/R/WW/8 Control of Mbc-resistant Eyespot - W. Wheat

Rothamsted Research

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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)