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

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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. FUNGICIDE | 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. EYE INOC | 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 ² 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. |