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97/R/WW/10 Stem Base Diseases and Fungicides - W. Wheat

Rothamsted Research

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97/R/WW/10

WINTER WHEAT

STEM BASE DISEASES AND FUNGICIDES

Object: To evaluate sampling methods and molecular diagnostics for assessing risk of stem base diseases and the effects of fungicides - Highfield IV/ Road Piece East.

Sponsors: G.L. Bateman.

Design: 4 randomised blocks of 4 x 5 plots.

Whole plot dimensions: 3.0 x 10.0.

Treatments: All combinations of:-

- | | |
|--------------|-------------|
| 1. CULTIVAR | Variety: |
| L | Lynx |
| B | Brigadier |
| M | Mercia |
| S | Soissons |
| 2. FUNGICIDE | Fungicides: |
| - | None |
| PR | Prochloraz |
| CY | Cyprodinil |
| ST | Strobilurin |
| FL | Flusilazole |

Experimental diary:

27-Aug-96 : B : PK as (0:20:32) at 1400 kg.
05-Oct-96 : B : Ploughed and furrow pressed.
09-Oct-96 : T : **CULTIVAR** L, B, M, S: Lynx, Brigadier and Mercia, undressed, drilled at 380 seeds per m², Soissons, undressed, drilled at 400 seeds per m².
28-Nov-96 : B : Auger at 2.6 l with Stomp 400 SC at 3.1 l in 200 l.
10-Mar-97 : B : 34.5% N at 118 kg.
03-Apr-97 : B : 34.5% N at 463 kg.
08-Apr-97 : T : **FUNGICIDE** ST: Amistar at 1.0 l in 220 l.
 : T : **FUNGICIDE** CY: Unix at 1.0 kg in 220 l.
 : T : **FUNGICIDE** FL: Sanction at 0.5 l in 220 l.
 : T : **FUNGICIDE** PR: Sportak 45 at 0.889 l in 220 l.
30-May-97 : B : Clayton Epoxicon at 1.0 l in 300 l.
09-Jun-97 : B : Mistral at 1.0 l in 300 l.
20-Aug-97 : B : Combine harvested.

Previous crops: W. and s. rape 1995, w. wheat 1996.

97/R/WW/10

- NOTES: (1) Because of a combine error the yield of one plot with **CULTIVAR M FUNGCIDE CY** was lost. An estimated value was used in the analysis.
- (2) Plant samples were taken in March, April, May and July to assess stem base diseases and extract DNA to identify stem base pathogens.

GRAIN TONNES/HECTARE

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

FUNGCIDE	-	PR	CY	ST	FL	Mean
CULTIVAR						
L	9.83	9.20	9.89	10.29	9.58	9.76
B	8.53	9.11	8.65	10.58	9.35	9.24
M	8.07	7.94	8.37	7.86	7.95	8.04
S	7.97	7.85	8.32	8.53	8.17	8.17
Mean	8.60	8.53	8.81	9.31	8.76	8.80

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

CULTIVAR	FUNGCIDE	CULTIVAR FUNGCIDE
0.212	0.237	0.474

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	56	0.670	7.6

GRAIN MEAN DM% 88.0

PLOT AREA HARVESTED 0.00240