

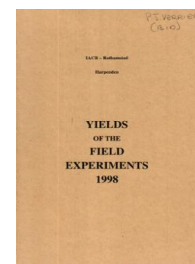
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98/R/CS/484

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 - Great Harpenden I.

Sponsors: G.L. Bateman, L.W. Morgan.

The first year, w. wheat.

Design: 4 randomised blocks of 4 x 5 plots.

Plot dimensions: 3.0 x 10.0.

Treatments:-

1. CULTIVAR

L	Lynx
B	Brigadier
M	Mercia
S	Soissons

2. FUNGICIDE

-	None
P	Prochloraz
C	Cyprodinil
A	Azoxystrobin
F	Flusilazole

Experimental diary:

02-Sep-97 : B : Alpha Glyphogan at 5.0 l in 200 l.
27-Sep-97 : B : Ploughed and furrow pressed.
10-Oct-97 : T : **CULTIVAR** B: Rotary harrowed, Brigadier, undressed, drilled at 380 seeds per m².
: T : **CULTIVAR** L: Rotary harrowed, Lynx, undressed, drilled at 380 seeds per m².
: T : **CULTIVAR** M: Rotary harrowed, Mercia, undressed, drilled at 380 seeds per m².
: T : **CULTIVAR** S: Rotary harrowed, Soissons, undressed drilled at 400 seeds per m².
28-Jan-98 : B : Isoguard at 2.0 l with Panther at 0.25 l and Stomp 400 SC at 2.5 l in 200 l.
17-Feb-98 : B : 34.5% N at 120 kg.
23-Mar-98 : B : Eagle at 40 g in 200 l.
07-Apr-98 : T : **FUNGICIDE** A: Amistar at 1.0 l in 220 l.
: T : **FUNGICIDE** C: Unix at 1.0 kg in 220 l.
: T : **FUNGICIDE** F: DUK9703 at 1.5 l in 220 l.
: T : **FUNGICIDE** P: Sportak 45 HF at 0.89 l in 220 l.
27-Apr-98 : B : 34.5% N at 460 kg.
12-May-98 : B : Opus at 1.0 l in 200 l.
05-Jun-98 : B : Corbel at 1.0 l in 200 l.
10-Aug-98 : B : Combine harvested.

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- NOTES: (1) Plant samples were taken in February, April, May and July to assess and identify stem base diseases.
 (2) Two plots of **CULTIVAR B** and one of **CULTIVAR M** were sown to Hereward due to a shortage of seed. These have been treated as missing values in the analysis.

GRAIN TONNES/HECTARE

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

FUNGCIDE CULTIVAR	-	P	C	A	F	Mean
L	9.13	9.73	9.44	10.69	8.84	9.56
B	9.61	9.83	9.52	9.81	9.80	9.72
M	8.68	8.97	8.07	9.43	8.86	8.80
S	8.44	8.78	9.32	10.16	9.34	9.21
Mean	8.96	9.33	9.09	10.02	9.21	9.32

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

CULTIVAR	FUNGCIDE	CULTIVAR FUNGCIDE
0.247	0.276	0.552

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	54	0.780	8.4
GRAIN MEAN DM%	89.7		
PLOT AREA HARVESTED	0.00230		