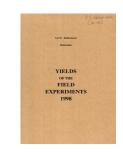
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# Yields of the Field Experiments 1998



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# 98/R/CS/484 Stem Base Diseases and Fungicides - W. Wheat

## **Rothamsted Research**

Rothamsted Research (1999) 98/R/CS/484 Stem Base Diseases and Fungicides - W. Wheat; Yields Of The Field Experiments 1998, pp 110 - 111 - DOI: https://doi.org/10.23637/ERADOC-1-52

#### 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
В	Brigadier
M	Mercia
S	Soissons

#### 2. FUNGCIDE

- None
P Prochloraz
C Cyprodinil
A Azoxystrobin
F Flusilazole

## Experimental diary:

```
02-Sep-97 : B : Alpha Glyphogan at 5.0 1 in 200 1.
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 1 in 200 1.
17-Feb-98 : B : 34.5% N at 120 kg.
23-Mar-98 : B : Eagle at 40 g in 200 1.
07-Apr-98 : T : FUNGCIDE A: Amistar at 1.0 l in 220 l.
          : T : FUNGCIDE C: Unix at 1.0 kg in 220 1.
          : T : FUNGCIDE F: DUK9703 at 1.5 1 in 220 1.
          : T : FUNGCIDE P: Sportak 45 HF at 0.89 1 in 220 1.
27-Apr-98 : B : 34.5% N at 460 kg.
12-May-98 : B : Opus at 1.0 1 in 200 1.
05-Jun-98 : B : Corbel at 1.0 1 in 200 1.
10-Aug-98 : B : Combine harvested.
```

#### 98/R/CS/484

- 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	С	A	F	Mean
L	9.13	9.73	9.44	10.69	8.84	9.56
В	9.61	9.83	9.52	9.81	9.80	9.72
М	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