

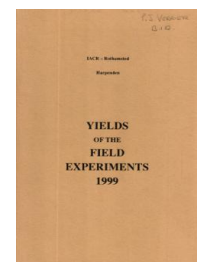
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99/R/CS/488 Stem-base Diseases and Fungicides - W. Wheat

Rothamsted Research

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99/W/CS/482

GRAIN TONNES/HECTARE

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

SULPHUR

S0	2.51
S1	4.89
S2	4.41
S3	4.19
S4	5.11
S5	4.52
Mean	4.27

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

SULPHUR

0.463

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	15	0.655	15.3
GRAIN MEAN DM%	81.3		
PLOT AREA HARVESTED	0.00230		

99/R/CS/488

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 - Bones Close.

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: Combinations of:-

1. **FUNGICIDE** Fungicide in spring:

-	None
P	Prochloraz
C	Cyprodinil
Z	Azoxystrobin
D	HGCA 1

2. **CULTIVAR**

L	Lynx
A	Abbot
M	Mercia
S	Soissons

NOTE: Treatment HGCA 1 is under commercial development, composition disclosed in confidence.

Experimental diary:

29-Aug-98 : B : : Ploughed and furrow pressed, started.
30-Aug-98 : B : : Ploughed and furrow pressed, completed.
29-Sep-98 : B : : tm)PDQ at 3.0 l in 200 l.
: B : : tm)Enhance at 200 ml in 200 l.
09-Oct-98 : B : : Spring-tined.
12-Oct-98 : T : A : Combination drilled, Abbot, recleaned, at 380 seeds/m²
: T : L : Combination drilled, Lynx, recleaned, at 380 seeds/m²
: T : M : Combination drilled, Mercia, recleaned, at 380 seeds/m²
: T : S : Combination drilled, Soissons, recleaned, at 400
seeds/m² with the Accord drill.
15-Oct-98 : B : : Hardy at 7.5 kg.
13-Feb-99 : B : : tm)Chiltern IPU at 1.0 l in 200 l.
: B : : tm)Unite A at 0.125 l in 200 l.
: B : : tm)Unite B at 1.0 l in 200 l.
: B : : tm)Cropoil at 1.0 l.
12-Mar-99 : B : : 34.5% N at 145 kg.
09-Apr-99 : T : C : Unix at 1.0 l in 220 l.
: T : D : HGCA1 at 1.5 l in 220 l.
: T : P : Sportak 45 EW at 0.889 l in 220 l.
: T : Z : Amistar at 1.0 l in 220 l.
16-Apr-99 : B : : 34.5% N at 435 kg.
14-Jun-99 : B : : Starane 2 at 0.75 l in 200 l.
23-Jul-99 : B : : Alpha Glyphogan at 4.0 l in 200 l.
30-Jul-99 : B : : Combine harvested.