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00/R/WW/14 Strobilurins and Winter Wheat

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00/R/WW/14

WINTER WHEAT

STROBILURINS AND WINTER WHEAT

Object: To compare diseases, green area duration, nitrogen translocation, yield and grain quality of two varieties of wheat, treated with strobilurin or conventional fungicides - Bones Close

Sponsors: C.G. Peters, K.L. Sykes.

Design: 4 randomised blocks of 2 x 4 plots.

Whole plot dimensions: 3.0 x 10.0.

Treatments: All combinations of:-

1. FUNGICIDE

F1	None
F2	Epoxiconazole on two occasions
F3	Epoxiconazole with azoxystrobin on two occasions
F4	Epoxiconazole on two occasions with azoxystrobin on the second occasion

2. VARIETY

V1	Hereward
V2	Madrigal

Experimental diary:

28-Sep-99 : B : : Ploughed.
29-Sep-99 : B : : Ploughing finished.
08-Oct-99 : T : V1,V2 : Combination drilled, varieties, tr. Sibutol, at 380 seeds/m² with the Accord drill.
: B : : Genesis at 5.0 kg.
13-Dec-99 : B : : tm)Lexus 50 DF at 20 g in 200 l.
: B : : tm)Stomp 400 SC at 2.5 l in 200 l.
: B : : tm)Toppel 10 at 250 ml in 200 l.
09-Mar-00 : B : : 34.5% N at 145 kg.
24-Apr-00 : B : : tm)Starane 2 at 1.0 l in 100 l.
: B : : tm)BASF 3C Chlormequat 720 at 2.0 l in 100 l.
27-Apr-00 : T : F2,F4 : Opus at 0.5 l in 220 l.
: T : F3 : tm)Opus at 0.5 l with Amistar at 0.6 l in 220 l.
03-May-00 : B : : 34.5% N at 435 kg.
22-May-00 : T : F2 : Opus at 0.75 l in 220 l.
: T : F3,F4 : tm)Opus at 0.5 l with Amistar at 0.8 l in 220 l.
24-May-00 : B : : tm)Topik at 125 ml in 100 l.
: B : : tm)Toil at 0.5 l in 100 l.
15-Aug-00 : T : : Combine harvested.

Previous crops: W. rye and s. wheat 1998, lupins and w. wheat 1999.

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GRAIN TONNES/HECTARE

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

FUNGICIDE VARIETY	F1	F2	F3	F4	Mean
V1	7.37	8.76	10.00	9.68	8.95
V2	6.03	9.82	11.49	10.61	9.49
Mean	6.70	9.29	10.74	10.15	9.22

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

VARIETY	FUNGICIDE	VARIETY FUNGICIDE
0.246	0.348	0.492

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	21	0.696	7.5
GRAIN MEAN DM%	85.4		
PLOT AREA HARVESTED	0.00240		