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00/W/CS/530 Effects of Take-all of Various Strobilurins

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00/W/CS/530

EFFECTS ON TAKE-ALL OF VARIOUS STROBILURINS

Object: To measure effects on take-all (*Gaeumannomyces graminis*) of various strobilurin fungicides - Woburn, Broad Mead I-IV.

Sponsors: J.F. Jenkyn, R.J. Gutteridge.

Design: 4 randomised blocks of 8 plots.

Plot dimensions: 3.0 x 10.0.

Treatments:-

FUNGICIDE

-	None (duplicated)
A	Azoxystrobin at 250 g a.i.
K	Kresoxim-methyl at 250 g a.i.
F	Trifloxystrobin at 250 g a.i.
X	HGCA X at 250 g a.i.
Y	HGCA Y at 250 g a.i.
Z	HGCA Z at 250 g a.i.

NOTE: HGCA X, Y and Z are under commercial development, composition disclosed in confidence.

Experimental diary:

04-Sep-99	: B :	: Ploughed and furrow pressed.
10-Sep-99	: B :	: Discd.
15-Sep-99	: B :	: Discd.
16-Sep-99	: B :	: Combination drilled, Consort, tr. Sibutol, at 300 seeds/m ² with the Nordsten drill.
12-Oct-99	: B :	: Cyperkill 10 at 250 ml in 200 l.
05-Mar-00	: B :	: tm)Hawk at 2.5 l in 200 l.
	: B :	: tm)Lexus 50 DF at 20 g in 200 l.
	: B :	: tm)Cropoil at 1.0 l in 200 l.
27-Apr-00	: T :	A, K, F, X, Y, Z : Treatments applied.
30-Apr-00	: B :	: tm)Profol 500 at 0.5 l in 200 l.
	: B :	: tm)Vytel Copper at 0.4 l in 200 l.
	: B :	: Opus at 0.5 l in 200 l.
	: B :	: tm)BASF 3C Chlormequat 720 at 2.0 l in 200 l.
	: B :	: tm)Moddus at 0.2 l in 200 l.
02-May-00	: B :	: Sulphan (30.0% N, 7.6% S) at 500 kg.
20-May-00	: B :	: tm)Opus at 0.75 l in 200 l.
	: B :	: tm)Sipcam UK Rover 500 at 1.0 l in 200 l.
	: T :	A, K, F, X, Y, Z : Treatments applied.
18-Aug-00	: B :	: Combine harvested.

Previous crops: W. wheat 1998 and 1999.

NOTE: Plant samples were assessed in June for root and stem base diseases.

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GRAIN TONNES/HECTARE

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

FUNGICIDE

-	7.31
A	8.42
K	7.69
F	8.03
X	7.51
Y	7.94
Z	8.45
Mean	7.83

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

FUNGICIDE

0.451	min.rep
0.391	max-min

FUNGICIDE

max-min - v any of the remainder
min.rep Any of the remainder

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	22	0.638	8.1
GRAIN MEAN DM%	84.5		
PLOT AREA HARVESTED	0.00237		