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00/W/WW/25 Strobilurins and Take-all - W. Wheat

Rothamsted Research

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00/W/WW/25

WINTER WHEAT

STROBILURINS AND TAKE-ALL

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

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

Design: 4 randomised blocks of 8 plots.

Plot dimensions: 3.0 x 10.0.

Treatments:-

FUNGICIDE	Fungicide and rate of active ingredient:
-	None
F1	Trifloxystrobin at 125 g
F2	Trifloxystrobin at 250 g
A1	Azoxystrobin at 125 g
A2	Azoxystrobin at 250 g
C	Cyprodinil at 500 g
CA	Cyprodinil at 500 g and azoxystrobin at 125 g
KE	Kresoxim-methyl at 125 g and epoxiconazole at 125 g

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/m² 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 : : Treatments applied in 220 l.
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 : : Treatments applied in 220 l.
20-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	
-	6.23
F1	6.40
F2	6.84
A1	6.79
A2	7.44
C	7.22
CA	6.94
KE	6.58
Mean	6.80

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

FUNGICIDE
0.416

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	21	0.588	8.6
GRAIN MEAN DM%	83.1		
PLOT AREA HARVESTED	0.00233		