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00/R/WW/12 Seed Treatments Against Take-all - W. Wheat

Rothamsted Research

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00/R/WW/12

WINTER WHEAT

SEED TREATMENTS AGAINST TAKE-ALL

Object: To test experimental compounds for their activity against take-all (*Gaeumannomyces graminis*) in the field - Bones Close..

Sponsors: G.L. Bateman, J.F. Jenkyn, R.J. Gutteridge.

Design: 4 randomised blocks of 9 plots.

Whole plot dimensions: 1.5 x 10.0.

Treatments:

FUNGICIDE

-	Undressed
S	Undressed, foliar sprays at growth stages 30 and 39
A	Seed dressing A
B	Seed dressing B
C	Seed dressing C
D	Seed dressing D
E	Seed dressing E
F	Seed dressing F
G	Seed dressing G

Experimental diary:

28-Sep-99	: B :	: Ploughed.
08-Oct-99	: B :	: Rotary harrowed.
	: T :	: Drilled, Hereward, tr. as treatment, at 180 seeds/m ² with Novartis's Hege 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	: B :	: tm)Opus at 0.5 l in 200 l.
	: B :	: tm)Unix at 0.5 kg in 200 l.
	: T : S	: Amistar at 0.6 l in 220 l.
03-May-00	: B :	: 34.5% N at 435 kg.
20-May-00	: B :	: tm)Bravo 500 at 1.0 l in 200 l.
	: B :	: tm)Opus at 0.75 l in 200 l.
	: T : S	: Amistar at 0.8 l in 220 l.
	: B :	: Upgrade at 1.0 l in 200 l.
24-May-00	: B :	: tm)Topik at 125 ml in 100 l.
	: B :	: tm)Toil at 0.5 l in 100 l.
14-Aug-00	: B :	: Combine harvested.

Previous crops: W. wheat 1998 and 1999.

NOTE: All plots were sampled in March and July to assess diseases on the roots and stem bases.

00/R/WW/12

GRAIN TONNES/HECTARE

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

FUNGICIDE

-	9.59
S	10.76
A	10.95
B	10.91
C	10.55
D	10.31
E	11.40
F	10.48
G	10.09

Mean	10.56
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*** Standard errors of differences of means ***

FUNGICIDE

0.426

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

Stratum	d.f.	s.e.	cv%
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BLOCK.WP	24	0.602	5.7
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GRAIN MEAN DM% 80.6

AVERAGE PLOT AREA HARVESTED 0.00134