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98/R/WW/12 Foliar Sprays and Take-all - W. Wheat

Rothamsted Research

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98/R/WW/12

WINTER WHEAT

FOLIAR SPRAYS AND TAKE-ALL

Object: To test the efficacy of a novel material on the control of take-all (*Gaeumannomyces graminis*) in w. wheat - Highfield IV/Road Piece East.

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

Design: 4 randomised blocks of 5 plots.

Whole plot dimensions: 3.0 x 10.0.

Treatments:

TREATMNT

-	None
ST	CGA 245704 seed treatment
SA	CGA 245704 foliar spray 12-Nov-97
SE	CGA 245704 foliar spray 25-Feb-98
SL	CGA 245704 foliar spray 31-May-98

NOTE: CGA 245704 is under commercial development, composition disclosed in confidence.

Experimental diary:

17-Sep-97 : B : Scythe LC at 3.0 l with Vassgro Non Ionic at 100 ml in 200 l.
24-Sep-97 : B : Ploughed and furrow pressed.
30-Sep-97 : B : Rotary harrowed, Hereward, dressed as treatment, drilled at 400 seeds per m².
12-Nov-97 : T : TREATMNT SA: CGA 245704 at 60 g in 200 l.
06-Jan-98 : B : Atlas Fieldgard at 2.6 l with Stomp 400 SC at 3.3 l in 200 l.
13-Feb-98 : B : 34.5% N at 116 kg. Grasp at 1.4 l with Isoguard at 2.0 l and Output at 0.75 l in 200 l.
25-Feb-98 : T : TREATMNT SE: CGA 245704 at 60 g in 200 l.
31-Mar-98 : T : TREATMNT SL: CGA 245704 at 60 g in 200 l.
28-Apr-98 : B : 34.5% N at 400 kg.
08-May-98 : B : Ally at 20 g with Starane 2 at 0.5 l in 200 l.
11-Aug-98 : B : Combine harvested.

Previous crops: W. wheat 1996, w. wheat and barley 1997.

NOTE: Plant samples were taken in November, March and June to assess root and stem base diseases.

98/R/WW/12

GRAIN TONNES/HECTARE

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

TREATMNT

-	7.63
ST	6.86
SA	7.64
SE	7.01
SL	7.59
Mean	7.34

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

TREATMNT

0.706

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	12	0.998	13.6
GRAIN MEAN DM%	89.8		
PLOT AREA HARVESTED	0.00229		