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96/W/CS/404 Take-all Seed Treatment

Rothamsted Research

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96/W/CS/404

TAKE-ALL SEED TREATMENT

Object: To test new fungicidal seed treatments for the control of take-all (*Gaeumannomyces graminis*) - Woburn, Stackyard II.

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

Design: 6 randomised blocks of 6 plots.

Whole plot dimensions: 3.0 x 19.0.

Treatments:

SEED TRT	Seed treatment:
-	None
BF	Fuberidazole with triadimenol (Baytan Flowable)
A1	Fungicide A, rate 1
A2	Fungicide A, rate 2
B1	Fungicide B, rate 1
B2	Fungicide B, rate 2

NOTE: Fungicides A and B are under commercial development, composition undisclosed.

Experimental diary:

14-Sep-95 : B : Ploughed.
20-Oct-95 : B : Rotary harrowed.
23-Oct-95 : B : Brigadier, drilled at 375 seeds per m².
20-Nov-95 : B : Panther at 2.0 l in 200 l.
16-Apr-96 : B : 34.5% N at 348 kg.
30-Apr-96 : B : Halo at 1.5 l in 200 l.
06-Jun-96 : B : Silvacur at 1.0 l in 300 l.
20-Aug-96 : B : Combine harvested.

Previous crops: W. rye 1994, w. wheat 1995.

NOTE: Samples were taken in April to assess take-all and plant growth and in June to assess take-all and eyespot.

96/W/CS/404

GRAIN TONNES/HECTARE

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

SEED TRT	
-	7.04
BF	6.37
A1	7.24
A2	6.87
B1	7.16
B2	7.35
Mean	7.01

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

SEED TRT
0.417

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	25	0.722	10.3

GRAIN MEAN DM% 88.4

PLOT AREA HARVESTED 0.00415