

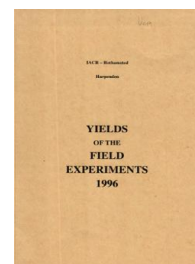
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96/R/CS/456 Take-all Seed Treatment - W. Wheat

Rothamsted Research

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96/R/CS/456

TAKE-ALL SEED TREATMENT

Object: To test fungicidal seed treatments for the control of take-all (*Gaeumannomyces graminis*) - Long Hoos V 1 + O&E N.

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

The first year, w. wheat.

Design: 4 randomised blocks of 6 plots.

Plot dimensions: 3.0 x 10.0.

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:

12-Aug-95 : B : Straw baled and removed.
09-Oct-95 : B : Topped.
18-Oct-95 : B : Gramoxone 100 at 3.0 l in 200 l.
19-Oct-95 : B : Heavy spring-tine cultivated, cultivated by rotary grubber. Rotary harrowed, Brigadier, dressed as treatments, drilled at 380 seeds per m².
16-Apr-96 : B : 34.5% N at 347 kg.
13-Jun-96 : B : Alto 100 SL at 0.6 l in 300 l.
 : B : Mallard 750 EC at 0.4 l in 300 l.
09-Jul-96 : B : Wild oats pulled by hand.
21-Aug-96 : B : Combine harvested.

Previous crops: S. barley 1994, s. wheat after failed lupins 1995.

NOTE: Emergence was assessed and plant counts were made in November. Samples were taken in April to assess take-all on plant growth and in July to assess take-all and eyespot.

96/R/CS/456

GRAIN TONNES/HECTARE

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

SEED TRT	
-	9.99
BF	9.93
A1	10.03
A2	9.92
B1	10.24
B2	10.57
Mean	10.11

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

SEED TRT
0.324

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	15	0.458	4.5

GRAIN MEAN DM% 84.9

PLOT AREA HARVESTED 0.00227