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95/R/CS/438 Take-all Control - W. Wheat

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95/R/CS/438

TAKE-ALL CONTROL

Object: To test seed treatments for the control of take-all in w. wheat
- Long Hoos I/II.

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

The first year, w. wheat.

Design: 4 randomised blocks of 3 x 3 plots.

Whole plot dimensions: 3.0 x 10.0.

Treatments: All combinations of :-

1. SEED TRT	Seed treatment:
UT	None
BY	Fuberidazole and triadimenol as 'Baytan'
NT	New treatment

NOTE: NT is under commercial development, composition undisclosed.

2. **N RATE** Rate and timing of nitrogen (kg N):

	Early	Later	Total
N1	-	120	120
N2	40	80	120
N3	40	160	200

Experimental diary:

- 26-Sep-94 : B : Ploughed and furrow pressed.
- 17-Oct-94 : B : Rotary harrowed, twice.
 - : **T : SEED TRT** UT: Rotary harrowed, Hussar, undressed, drilled at 380 seeds per m².
 - : **T : SEED TRT** BY: Rotary harrowed, Hussar, dressed Baytan, drilled at 380 seeds per m².
 - : **T : SEED TRT** NT: Rotary harrowed, Hussar, dressed N, drilled at 380 seeds per m².
- 21-Nov-94 : B : Draza at 5.5 kg.
- 24-Nov-94 : B : Alpha Isoproturon 500 at 3.0 l in 200 l.
 - : B : Stomp 400 at 3.3 l in 200 l.
- 27-Feb-95 : **T : N RATE** N2, N3: 34.5% N at 116 kg.
- 10-Apr-95 : **T : N RATE** N3: 34.5% N at 464 kg.
 - : **T : N RATE** N1: 34.5% N at 348 kg.
 - : **T : N RATE** N2: 34.5% N at 232 kg.
- 11-Apr-95 : B : Barclay Eyetak at 1.1 l in 200 l.
- 31-May-95 : B : Barclay Hurler at 1.0 l in 300 l.
- 09-Aug-95 : B : Combine harvested.

Previous crops: W. wheat 1993, s. wheat 1994.

NOTE: Samples to assess root and stem base diseases were taken in January, April and July.

95/R/CS/438

GRAIN TONNES/HECTARE

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

N RATE SEED TRT	N1	N2	N3	Mean
UT	6.13	6.76	7.96	6.95
BY	6.64	7.21	8.02	7.29
NT	7.12	7.54	8.68	7.78
Mean	6.63	7.17	8.22	7.34

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

SEED TRT	N RATE	SEED TRT N RATE
0.161	0.161	0.279

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	24	0.395	5.4

GRAIN MEAN DM% 89.4

PLOT AREA HARVESTED 0.00227