

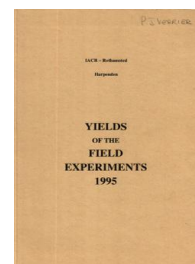
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95/R/CS/438 Take-all Control - W. Wheat

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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.

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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