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## Yields of the Field Experiments 1997

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### 97/R/CS/476 Fungicide Sequences and Take-all - W. Wheat

#### Rothamsted Research

Rothamsted Research (1998) *97/R/CS/476 Fungicide Sequences and Take-all - W. Wheat* ; Yields Of The Field Experiments 1997, pp 94 - 95 - DOI: <https://doi.org/10.23637/ERADOC-1-53>

97/R/CS/476

### FUNGICIDE SEQUENCES AND TAKE-ALL

**Object:** To determine the effects of fungicidal seed treatments on take-all (*Gaeumannomyces graminis*) development in w.wheat - Long Hoos IV 4.

**Sponsors:** G.L. Bateman, J.F. Jenkyn.

The first year, w. wheat.

**Design:** 4 randomised blocks of 2 x 2 x 2.

**Plot dimensions:** 3.0 x 10.0.

**Treatments:** All combinations of:-

- |           |                                            |
|-----------|--------------------------------------------|
| 1. FUNG97 | Fungicidal seed dressing to the 1997 crop: |
| F97       | Seed dressed                               |
| -97       | None                                       |
| 2. FUNG98 | Fungicidal seed dressing to the 1998 crop: |
| F98       | Seed dressed                               |
| -98       | None                                       |
| 3. FUNG99 | Fungicidal seed dressing to the 1999 crop: |
| F99       | Seed dressed                               |
| -99       | None                                       |

**NOTE:** The seed dressing is under commercial development, composition undisclosed.

**Experimental diary:**

17-Oct-96 : B : Spring-tine cultivated, rotary harrowed, Brigadier, dressed as treatment, drilled at 380 seeds per m<sup>2</sup>.  
28-Jan-97 : B : Panther at 2.0 l in 200 l.  
11-Mar-97 : B : 34.5% N at 118 kg.  
14-Apr-97 : B : 34.5% N at 463 kg.  
16-Apr-97 : B : Deloxil at 1.5 l with Dow Shield at 0.35 l in 200 l.  
30-May-97 : B : Folicur at 0.5 l in 300 l.  
19-Aug-97 : B : Combine harvested.

Previous crops: S. wheat 1995, linseed 1996.

**NOTE:** Plant samples were taken in April to assess take-all on the roots and in July to assess root and stem base diseases. Soil samples were taken after harvest and used in bioassays to measure take-all infectivity.

97/R/CS/476

GRAIN TONNES/HECTARE

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

FUNG97

F97 10.31

-97 10.02

Mean 10.17

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

FUNG97

0.225

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

| Stratum | d.f. | s.e. | cv% |
|---------|------|------|-----|
|---------|------|------|-----|

|          |    |       |     |
|----------|----|-------|-----|
| BLOCK.WP | 27 | 0.637 | 6.3 |
|----------|----|-------|-----|

GRAIN MEAN DM% 90.0

PLOT AREA HARVESTED 0.00240