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# Yields of the Field Experiments 1997



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# 97/W/WW/3 Fungicides and Take-all - W. Wheat

## **Rothamsted Research**

Rothamsted Research (1998) *97/W/WW/3 Fungicides and Take-all - W. Wheat ;* Yields Of The Field Experiments 1997, pp 110 - 111 - **DOI:** https://doi.org/10.23637/ERADOC-1-53

#### 97/W/WW/3

#### WINTER WHEAT

#### FUNGICIDES AND TAKE-ALL

Object: To test fungicides to control take-all (Gaeumannomyces graminis) - Woburn, Stackyard C.

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

Design: 4 randomised blocks of 6 x 2 plots.

Plot dimensions: 3.0 x 10.0.

Treatments: All combinations of:-

```
1. SEED TRT
                 Seed Treatment:
```

```
None
F1R1
               Fungicide 1 rate 1
F1R2
               Fungicide 1 rate 2
F2R1
               Fungicide 2 rate 1
F2R2
```

B Fuberidazole and triadimenol (Baytan Flowable)

Fungicide 2 rate 1

2. SPORTAK Eyespot control

0 None

S Prochloraz (Sportak 45)

NOTE: Fungicide 1 and 2 are under commercial development, composition undisclosed.

#### Experimental diary:

```
30-Sep-96 : B : Ploughed.
```

16-Oct-96 : B : Rotary harrowed, Brigadier, dressed as treatment. drilled at 400 seeds per  $m^2$ .

06-Dec-96 : B : Panther at 2.0 1 in 200 1.

21-Mar-97 : B : 27.5% N at 145 kg.

14-Apr-97 : T : SPORTAK S: Sportak 45 at 0.9 1 in 200 1.

15-Apr-97 : B : 34.5% N at 348 kg.

16-May-97 : B : Halo at 2.0 1 in 300 1.

04-Jun-97 : B : Alto 100 SL at 0.8 1 with Mistral at 1.0 1 in 300 1.

17-Aug-97 : B : Combine harvested.

Previous crops: W.wheat 1995 and 1996.

NOTE: In April plant populations were estimated, shoot dry weight measured and take-all assessed. In June take-all and stem base diseases were measured.

### 97/W/WW/3

#### GRAIN TONNES/HECTARE

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

SPORTAK	0	S	Mean
SEED TRT			
-	3.58	3.94	3.76
F1R1	4.09	4.50	4.30
F1R2	4.24	5.53	4.89
F2R1	4.96	4.23	4.59
F2R2	4.65	5.03	4.84
В	3.54	3.86	3.70
Mean	4.18	4.51	4.35

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

SEED TRT	SPORTAK	SEED TRT
		SPORTAK
0.580	0.335	0.821

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

Stratum	d.f.	s.e.	CV%
BLOCK.WP	33	1.161	26.7

GRAIN MEAN DM% 89.5

PLOT AREA HARVESTED 0.00236