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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                    Fungicide 2 rate 1
  - B                        Fuberidazole and triadimenol (Baytan Flowable)
  
2. **SPORTAK**            Eyespot control
  - O                        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<sup>2</sup>.
- 06-Dec-96 : B : Panther at 2.0 l in 200 l.
- 21-Mar-97 : B : 27.5% N at 145 kg.
- 14-Apr-97 : T : **SPORTAK** S: Sportak 45 at 0.9 l in 200 l.
- 15-Apr-97 : B : 34.5% N at 348 kg.
- 16-May-97 : B : Halo at 2.0 l in 300 l.
- 04-Jun-97 : B : Alto 100 SL at 0.8 l with Mistral at 1.0 l in 300 l.
- 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 SEED TRT	O	S	Mean
-	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
B	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		