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97/R/WW/8 Fungicides and Take-all - W. Wheat

Rothamsted Research

Rothamsted Research (1998) *97/R/WW/8 Fungicides and Take-all - W. Wheat* ; Yields Of The Field Experiments 1997, pp 117 - 118 - DOI: <https://doi.org/10.23637/ERADOC-1-53>

97/R/WW/8

WINTER WHEAT

FUNGICIDES AND TAKE-ALL

Object: To test fungicides to control take-all (*Gaeumannomyces graminis*) and eyespot (*Tapesia yellundae*) - Stubbings.

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

Design: 4 randomised blocks of 6 x 2 plots.

Whole plot dimensions: 3.0 x 10.0.

Treatments:

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 2
 - 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:

- 28-Aug-96 : B : PK as (0:20:32) at 1400 kg.
- 05-Oct-96 : B : Ploughed and furrow pressed.
- 14-Oct-96 : T : Rotary harrowed, Brigadier, dressed as treatment, drilled at 380 seeds per m².
- 28-Nov-96 : B : Auger at 2.5 l with Stomp 400 SC at 3.1 l in 200 l.
- 10-Mar-97 : B : 34.5% N at 118 kg.
- 01-Apr-97 : T : **SPORTAK** S: Sportak 45 at 0.9 l in 220 l.
- 07-Apr-97 : B : 34.5% N at 464 kg.
- 04-Jun-97 : B : Folicur at 0.5 l with Mallard 750 EC at 0.3 l and Pointer at 0.5 l in 300 l.
- 09-Jun-97 : B : Mistral at 1.0 l in 300 l.
- 12-Aug-97 : B : Combine harvested.

Previous crops: W. wheat 1995 and 1996.

NOTE: Plant samples were taken in April and July to assess take-all and stem base diseases, Septoria (*Septoria tritici*) was also assessed in July.

97/R/WW/8

GRAIN TONNES/HECTARE

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

SPORTAK SEED TRT	O	S	Mean
-	7.60	8.08	7.84
F1R1	8.63	8.70	8.67
F1R2	8.29	8.34	8.31
F2R1	8.05	7.88	7.97
F2R2	8.28	8.27	8.28
B	7.88	8.02	7.95
Mean	8.12	8.21	8.17

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

SEED TRT	SPORTAK	SEED TRT SPORTAK
0.174	0.100	0.246

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	33	0.347	4.3

GRAIN MEAN DM% 86.5

PLOT AREA HARVESTED 0.00237