

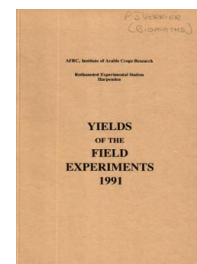
Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1991

[Full Table of Content](#)



91/W/R/1 Inputs - W. Rye

Rothamsted Research

Rothamsted Research (1992) *91/W/R/1 Inputs - W. Rye* ; Yields Of The Field Experiments 1991, pp 136 - 137 - DOI: <https://doi.org/10.23637/ERADOC-1-46>

91/W/R/1

WINTER RYE

INPUTS

Object: To study the effects of fungicides and rates of growth regulator on the growth and yield of w. rye - Woburn, Lansome II.

Sponsors: P.D.R. Styles, I.H. Barker.

Design: 3 randomised blocks of 6 plots.

Whole plot dimensions: 3.0 x 10.0.

Treatments: All combinations of:-

1. **G R RATE** Rates of growth regulator:
 - 1 Chlormequat chloride at 1.6 kg in 200 l; 24 Apr, 1991 and 2-chloroethylphosphonic acid at 0.15 kg with mepiquat chloride at 0.30 kg in 200 l; 10 May
 - 2 Chlormequat chloride at 1.6 kg in 200 l; 24 Apr and 2-chloroethylphosphonic acid at 0.31 kg with mepiquat chloride at 0.61 kg in 200 l; 10 May
 - 3 2-chloroethylphosphonic acid at 0.31 kg with mepiquat chloride at 0.61 kg in 200 l; 10 May
2. **FUNGICIDE** Fungicides:
 - F+B Fenpropimorph at 0.38 kg with benodanil at 1.0 kg in 200 l; 23 Apr
 - F+B+P As above plus propiconazole at 0.12 kg; 21 May

Basal applications: Manures: Magnesian limestone at 7.5 t. 'Nitram' at 290 kg. Weedkiller: Pendimethalin at 1.0 kg applied with insecticide in 220 l. Insecticide: Deltamethrin at 5.0 g.

Seed: Halo, sown at 100 kg.

Cultivations, etc.:- Deep tine cultivated with tines 1.5 m apart and 0.45 m deep: 18 Aug, 1990. Magnesian limestone applied: 23 Aug. Ploughed: 24 Aug. Rotary harrowed, seed sown: 5 Oct. Weedkiller and insecticide applied: 23 Nov. N applied: 16 Apr, 1991. Combine harvested: 16 Aug. Previous crops: W. wheat 1989 and 1990.

NOTE: Assessments of lodging were made before harvest.

91/W/R/1

GRAIN TONNES/HECTARE

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

| FUNGCIDE | F+B | F+B+P | Mean |
|-----------------|------|-------|------|
| G R RATE | | | |
| 1 | 7.48 | 8.22 | 7.85 |
| 2 | 7.45 | 8.60 | 8.02 |
| 3 | 6.99 | 8.14 | 7.57 |
| Mean | 7.31 | 8.32 | 7.81 |

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

| G R RATE | FUNGCIDE | G R RATE FUNGCIDE |
|----------|----------|----------------------|
| 0.170 | 0.139 | 0.240 |

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

| Stratum | d.f. | s.e. | cv% |
|---------------------|---------|-------|-----|
| BLOCK.WP | 10 | 0.294 | 3.8 |
| GRAIN MEAN DM% | 87.3 | | |
| PLOT AREA HARVESTED | 0.00210 | | |