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# Yields of the Field Experiments 1982

*Full Table of Content*

## 82/R/CS/264 Fungicide Rates - W. Barley, S. Barley

### Rothamsted Research

Rothamsted Research (1983) *82/R/CS/264 Fungicide Rates - W. Barley, S. Barley ;* Yields Of The Field Experiments 1982, pp 157 - 159 **- DOI: https://doi.org/10.23637/ERADOC-1-33**

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82/R/CS/264

FUNGICIDE RATES

Object: To study the residual effects on barley of a range of rates of triadimefon applied to w. oilseed rape on land in rotation (pathogen free) and after previous oilseed rape (pathogen infected) - Long Hoos IV 1 (pathogen free) and Summerdells I (pathogen infected).

Sponsor: C.J. Rawlinson.

The second year, w. barley (Long Hoos IV 1), s. barley (Summerdells I).

For previous year see 81/R/CS/264.

Design: 3 randomised blocks of 6 plots.

Whole plot dimensions: 2.13 x 3.05.

Treatments:

FUNGRATE (81) Residues of triadimefon applied at different rates (kg) to soil surface before seedbed cultivation for w. oilseed rape 1981:

0.06
0.12
0.25
0.50
1.00
2.00

NOTE: In 1981 on Summerdells I w. oilseed rape failed during the winter and the site was sown to s. barley to assess the residual effects of treatments already applied.

Basal applications:
Long Hoos IV: Manures: 'Nitro-Chalk' at 500 kg. Weedkillers: Mecoprop, bromoxynil and ioxynil (as 'Brittox' at 2.8 l) in 450 l. Dicamba, mecoprop and MCPA (as 'Banlene Plus' at 4.2 l) in 340 l.
Summerdells I: Manures: (0:14:28) at 780 kg, 'Nitro-Chalk' at 470 kg. Weedkillers: Paraquat at 0.5 kg ion in 250 l. Dicamba, mecoprop and MCPA (as 'Poly-Farmon' at 5.0 l) in 250 l.

Seed: Long Hoos IV: Maris Otter, undressed, sown at 160 kg.
Summerdells I: Georgie, sown at 160 kg.

Cultivations, etc.:-
Long Hoos IV: Ploughed: 6 Aug, 1981. Power harrowed: 23 Sept. Spring-tine cultivated: 13 Oct. Seed sown: 16 Oct. Mecoprop, bromoxynil and ioxynil applied: 1 Feb, 1982. Dicamba, mecoprop and MCPA applied: 19 Apr. N applied: 20 Apr. Combine harvested: 26 July.
Summerdells I: Ploughed: 8 Oct, 1981. PK applied: 26 Nov. N and paraquat applied: 25 Mar, 1982. Spring-tine cultivated: 30 Mar. Rotary harrowed, seed sown: 3 Apr. Dicamba, mecoprop and MCPA applied: 17 May. Combine harvested: 17 Aug.



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NOTE: Mildew and other diseases were assessed five times at fortnightly intervals from May to July. Components of yield were measured at maturity.

LONG HOOS IV WINTER BARLEY

GRAIN TONNES/HECTARE

***** TABLES OF MEANS *****

| FUNGRATE | 0.06 | 0.12 | 0.25 | 0.50 | 1.00 | 2.00 | MEAN |
|---|---|---|---|---|---|---|---|
| | 2.81 | 2.59 | 2.17 | 2.36 | 1.67 | 2.90 | 2.42 |

***** STANDARD ERRORS OF DIFFERENCES OF MEANS *****

| TABLE | FUNGRATE |
|---|---|
| SED | 0.413 |

***** STRATUM STANDARD ERRORS AND COEFFICIENTS OF VARIATION *****

| STRATUM | DF | SE | CV% |
|---|---|---|---|
| BLOCK.WP | 10 | 0.505 | 20.9 |

GRAIN MEAN DM% 69.2

STRAW TONNES/HECTARE

***** TABLES OF MEANS *****

| FUNGRATE | 0.06 | 0.12 | 0.25 | 0.50 | 1.00 | 2.00 | MEAN |
|---|---|---|---|---|---|---|---|
| | 5.57 | 5.42 | 5.65 | 6.20 | 6.26 | 5.54 | 5.77 |

***** STANDARD ERRORS OF DIFFERENCES OF MEANS *****

| TABLE | FUNGRATE |
|---|---|
| SED | 0.875 |

***** STRATUM STANDARD ERRORS AND COEFFICIENTS OF VARIATION *****

| STRATUM | DF | SE | CV% |
|---|---|---|---|
| BLOCK.WP | 10 | 1.072 | 18.6 |

STRAW MEAN DM% 58.8

PLOT AREA HARVESTED 0.00054



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82/R/CS/264

SUMMERDELLS I SPRING BARLEY

GRAIN TONNES/HECTARE

***** TABLES OF MEANS *****

| FUNGRATE | 0.06 | 0.12 | 0.25 | 0.50 | 1.00 | 2.00 | MEAN |
|---|---|---|---|---|---|---|---|
| | 4.68 | 4.35 | 4.58 | 4.66 | 4.22 | 4.88 | 4.56 |

***** STANDARD ERRORS OF DIFFERENCES OF MEANS *****

| TABLE | FUNGRATE |
|---|---|
| SED | 0.448 |

***** STRATUM STANDARD ERRORS AND COEFFICIENTS OF VARIATION *****

| STRATUM | DF | SE | CV% |
|---|---|---|---|
| BLOCK.WP | 10 | 0.549 | 12.0 |

GRAIN MEAN DM% 82.0

PLOT AREA HARVESTED 0.00065



https://doi.org/10.23637/ERADOC-1-33 