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# Yields of the Field Experiments 1980

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## 80/R/CS/230 Stubble Treatment and Light Leaf Spot

### Rothamsted Research

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80/R/CS/230

STUBBLE TREATMENT AND LIGHT LEAF SPOT

Object: To study the residual effects of treatments applied to w. oilseed rape in 1978 on the incidence of mildew and yield of s. barley in 1980 - Gt. Field I.

Sponsor: C.J. Rawlinson.

Design: 4 randomised blocks of 6 plots.

The third year, s. barley.

For first year see 78/R/RA/1.

Whole plot dimensions: 8.53 x 4.27.

Treatments:

| FUNGICIDE | Fungicides, rates and times of application |                     |                    |
|-----------|--|---------------------|--------------------|
|           | To rape crop                               |                     | To rape stubble    |
|           | 5 Oct, 1977                                | 18 Jan, 1978        | 22 Aug, 1978       |
| - -       | None                                       | None                | None (duplicated)  |
| B1 B2     | Benomyl 1.12 kg                            | None                | Benomyl 2.0 kg     |
| B2 B2     | Benomyl 1.12 kg                            | Benomyl 1.12 kg     | Benomyl 2.0 kg     |
| T1 T8     | Triadimefon 0.25 kg                        | None                | Triadimefon 2.0 kg |
| T2 T8     | Triadimefon 0.25 kg                        | Triadimefon 0.25 kg | Triadimefon 2.0 kg |

- NOTES: (1) W. oilseed rape was self-sown in autumn 1978, with minimum cultivations. The crop was severely damaged by birds and yields were not taken.
- (2) W. oilseed rape was again self-sown in autumn 1979, with minimum cultivations. Additional treatments testing forms of nitrogen to stubble in autumn 1979 and spring 1980 were applied. The crop failed and was replaced by s. barley. Yields of the s. barley showed no effects from treatments applied to the 1980 crop of w. oilseed rape and these have been ignored in the analysis presented.

Basal applications: Manures: (13:13:20) at 380 kg. N at 160 kg, form depended on treatments. Weedkillers: Dalapon at 0.95 kg in 340 l. Propyzamide at 0.70 kg in 340 l. Dalapon at 2.8 kg with propyzamide at 0.56 kg in 340 l. 3, 6 - Dichloropicolinic acid with benazolin (as 'Benazalox' at 2.2 kg, in 340 l. Dicamba with mecoprop and MCPA (as 'Banlene Plus' at 5.0 l) in 250 l.

Seed: Georgie, sown at 160 kg.

Cultivations, etc.:- NPK applied: 10 Sept, 1979. Dalapon applied: 13 Sept. Propyzamide applied: 24 Sept. First half N applied: 4 Oct. Dalapon applied with propyzamide: 5 Oct. 'Benazalox' applied: 29 Jan, 1980. Second half N applied: 20 Feb. Rape topped, chisel ploughed, rotary harrowed and barley sown: 18 Apr. 'Banlene Plus' applied: 25 May. Combine harvested: 2 Sept.

NOTE: Mildew was assessed in early and late June, and early and late July. Components of yield were measured at harvest.

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GRAIN TONNES/HECTARE

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

| FUNGCIDE | - -  | B1 B2 | B2 B2 | T1 T8 | T2 T8 | MEAN |
|----------|------|-------|-------|-------|-------|------|
|          | 2.49 | 2.48  | 2.71  | 3.47  | 3.62  | 2.88 |

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

| TABLE | FUNGCIDE                       |
|-------|--------------------------------|
| SED   | 0.224 MIN REP<br>0.194 MAX-MIN |

FUNGCIDE  
MAX-MIN - - V ANY OF THE REMAINDER  
MIN REP ANY OF THE REMAINDER

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

| STRATUM  | DF | SE    | CV%  |
|----------|----|-------|------|
| BLOCK.WP | 16 | 0.316 | 11.0 |

GRAIN MEAN DM% 79.6

STRAW TONNES/HECTARE

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

| FUNGCIDE | - -  | B1 B2 | B2 B2 | T1 T8 | T2 T8 | MEAN |
|----------|------|-------|-------|-------|-------|------|
|          | 2.67 | 2.59  | 2.65  | 3.76  | 3.64  | 2.99 |

STRAW MEAN DM% 63.4

PLOT AREA HARVESTED 0.00264