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## Yields of the Field Experiments 1982

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### 82/R/CS/230 Stubble Treatment and Light Leaf Spot - S. Barley

#### Rothamsted Research

Rothamsted Research (1983) *82/R/CS/230 Stubble Treatment and Light Leaf Spot - S. Barley* ; Yields Of The Field Experiments 1982, pp 135 - 136 - DOI: <https://doi.org/10.23637/ERADOC-1-33>

82/R/CS/230

STUBBLE TREATMENT AND LIGHT LEAF SPOT

Object: To study the residual effects of treatments applied to w. oilseed rape in 1977 and 1978 on the incidence of mildew and yield of s. barley in 1982 - Gt. Field I.

Sponsor: C.J. Rawlinson.

Design: 4 randomised blocks of 6 plots.

The fifth year, s. barley.

For previous years see 78/R/RA/1 and 80-81/R/CS/230.

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. The crop failed and was replaced by s. barley. In 1981 and 1982 s. barley only was sown.

Basal applications: Manures: (20:10:10) at 380 kg, combine drilled.

Weedkillers: Dicamba with mecoprop and MCPA (as 'Poly-Farmon' at 5.0 l) in 250 l. Glyphosate at 1.4 kg in 250 l.

Seed: Georgie, sown at 160 kg.

Cultivations, etc.: - Glyphosate applied: 1 Dec, 1981. Ploughed: 4 Jan, 1982. Spring-tine cultivated: 30 Mar. Rotary harrowed, seed sown: 5 Apr. 'Poly-Farmon' applied: 17 May. Combine harvested: 16 Aug.

NOTE: Mildew was assessed four times from late May to early July, and isolates were tested for sensitivity to triadimefon. Soil cores were taken for residue analysis by bio-assay.

82/R/CS/230

GRAIN TONNES/HECTARE

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

| FUNGCIDE | - -  | B1 B2 | B2 B2 | T1 T8 | T2 T8 | MEAN |
|----------|------|-------|-------|-------|-------|------|
|          | 3.43 | 3.57  | 3.14  | 3.48  | 3.54  | 3.43 |

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

| TABLE | FUNGCIDE |         |
|-------|----------|---------|
| SED   | 0.293    | MIN REP |
|       | 0.253    | MAX-MIN |

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

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

| STRATUM  | DF | SE    | CV%  |
|----------|----|-------|------|
| BLOCK.WP | 16 | 0.414 | 12.1 |

GRAIN MEAN DM% 76.9

STRAW TONNES/HECTARE

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

| FUNGCIDE | - -  | B1 B2 | B2 B2 | T1 T8 | T2 T8 | MEAN |
|----------|------|-------|-------|-------|-------|------|
|          | 3.22 | 3.10  | 2.56  | 2.39  | 2.97  | 2.91 |

STRAW MEAN DM% 89.2

PLOT AREA HARVESTED 0.00243