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# Yields of the Field Experiments 1981

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

### Rothamsted Research

Rothamsted Research (1982) *81/R/CS/230 Stubble Treatment and Light Leaf Spot - S. Barley* ; Yields Of The Field Experiments 1981, pp 174 - 175 - DOI: <https://doi.org/10.23637/ERADOC-1-35>

81/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 1981 - Gt. Field I.

Sponsor: C.J. Rawlinson.

Design: 4 randomised blocks of 6 plots.

The fourth year, s. barley.

For previous years see 78/R/RA/1 and 80/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 s. barley only was sown.

Basal applications: Manures: (20:10:10) at 340 kg, combine drilled.  
Weedkillers: Glyphosate at 1.5 l in 250 l. Dicamba with mecoprop and MCPA (as 'Banlene Plus' at 5.0 l) in 250 l.

Seed: Georgie, sown at 160 kg.

Cultivations, etc.: - Glyphosate applied: 26 Sept, 1980. Ploughed: 28 Nov.  
Spring-tine cultivated: 7 Apr, 1981. Seed sown: 13 Apr. 'Banlene Plus' applied: 30 May. Combine harvested: 2 Sept.

NOTE: Mildew was assessed three times in June and July.

81/R/CS/230

GRAIN TONNES/HECTARE

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

|          |      |       |       |       |       |      |
|----------|------|-------|-------|-------|-------|------|
| FUNGCIDE | - -  | B1 B2 | B2 B2 | T1 T8 | T2 T8 | MEAN |
|          | 3.99 | 4.20  | 4.17  | 4.69  | 4.71  | 4.29 |

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

|       |               |
|-------|---------------|
| TABLE | FUNGCIDE      |
| ----- | -----         |
| SED   | 0.318 MIN REP |
|       | 0.275 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 | 0.450 | 10.5 |

GRAIN MEAN DM% 86.6

STRAW TONNES/HECTARE

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

|          |      |       |       |       |       |      |
|----------|------|-------|-------|-------|-------|------|
| FUNGCIDE | - -  | B1 B2 | B2 B2 | T1 T8 | T2 T8 | MEAN |
|          | 2.62 | 2.61  | 2.79  | 3.08  | 3.06  | 2.80 |

STRAW MEAN DM% 87.6

PLOT AREA HARVESTED 0.00243