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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