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

Rothamsted Research

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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