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73/R/BS/6 - Times of Applying Fungicides - Spring Barley

Rothamsted Research

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73/R/BS/6

SPRING BARLEY

TIMES OF APPLYING FUNGICIDES

Object: To study the effects of applying fungicides to barley, at a range of times on yield and incidence of mildew - Whittlocks.

Sponsor: J.F. Jenkyn.

Design: 4 blocks of 14 plots.

Whole plot dimensions: 4.27 x 12.2 Area harvested: 0.00260.

Treatments: Times of applying fungicides:	FUNGICIDE
None (2 plots per block)	O
Ethirimol seed dressing (2 plots per block)	ED
Ethirimol spray, early (1 June)	ES1
Ethirimol spray, late (25 June)	ES2
Tridemorph spray, early (2 plots per block) (1 June)	TS1
Tridemorph spray, late (25 June)	TS2
Tridemorph spray, 10-14 days after rapid increase in mildew spore production (11 June)	TS3
Captafol plus tridemorph sprays repeated 3 times (1,11,25 June)	CTS
Ethirimol seed dressing plus tridemorph spray, early (1 June)	EDTS1
Ethirimol seed dressing plus tridemorph spray, late (25 June)	EDTS2
Tridemorph spray, early plus late (1,25 June)	TS12

NOTE: Tridemorph was applied at 0.64 kg in 290 l
Ethirimol was applied at 0.44 kg in 290 l
Captafol was applied at 1.7 kg in 290 l.

Basal applications: Manures: (20:15:15) at 440 kg, combine drilled.
Weedkiller: MCPA, mecoprop and dicamba ('Tetralex plus' 7.0 l in 220 l).

Seed: Zephyr, sown at 160 kg.

Cultivations, etc.: - Ploughed: 20 Nov, 1972. Seed sown: 20 Mar, 1973.
Weedkiller applied: 18 May. Combine harvested: 14 Aug. Previous crops: Potatoes 1970, winter wheat 1971.

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NOTE: Counts were made of seedling emergence and fertile tillers.
Brown rust (*Puccinia hordei*) was assessed in mid July.
Mildew and % green leaf were assessed at intervals from May onwards.

Standard error per plot.

Grain, tonnes/hectare: 0.194 or 4.0% (42 d.f.)

TABLES OF MEANS

GRAIN: TONNES/HECTARE

FUNGICIDE											
O	ED	ES1	ES2	TSL	TS2	TS3	CTS	EDTSL	EDTS2	TSL2	Mean
4.34	4.88	4.91	4.45	5.23	4.50	4.83	5.55	5.25	4.92	5.21	4.89

STANDARD ERRORS OF DIFFERENCES

FUNGICIDE	
Between O, ED and TSL	0.097
Between remainder	0.138
Between any of O, ED, TSL and any of remainder	0.119

Mean D.M. % 87.9