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74/R/B/7 Times of Applying Fungicides - Barley

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74/R/B/7

BARLEY

TIMES OF APPLYING FUNGICIDE

Object: To study the effects of applying fungicides to barley, at different times, on yield and incidence of mildew - Summerdells II.

Sponsor: J.F. Jenkyn.

Design: 4 randomised blocks of 11 plots.

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

Treatments: Times of applying fungicides:	FUNGICIDE
None	O
Ethirimol seed dressing	ED
Ethirimol spray, early (20 May, 1974)	ES1
Ethirimol spray when mildew spores increasing rapidly (3 June)	ES2
Tridemorph spray early (20 May)	TSL
Tridemorph spray when mildew spores increasing rapidly (3 June)	TS2
Ethirimol seed dressing plus tridemorph spray when mildew spores increasing rapidly (3 June)	ED TS2
Ethirimol seed dressing plus tridemorph spray about ten days after mildew spores increasing rapidly (12 June)	ED TS3
Tridemorph spray early plus tridemorph spray about ten days after mildew spores increasing rapidly (12 June)	TSL 3
Captafol + tridemorph sprays repeated 3 times (12 May, 3, 12 June)	CTS 123
Chloraniformethan spray when mildew spores increasing rapidly (3 June)	CHS2

NOTE: Fungicides applied:-

Tridemorph: 0.53 kg in 340 l.
Ethirimol: 0.35 kg in 340 l.
Captafol: 1.3 kg in 340 l.
Chloraniformethan: 0.29 kg in 340 l.

Basal applications: Manures: (20:14:14) at 440 kg, combine drilled.

Weedkillers: Dicamba with mecoprop and MCPA ('Tetralex Plus' at 7.0 l in 220 l).

Seed: Zephyr, sown at 160 kg.

74/R/E/7

Cultivations, etc.: - Ploughed: 16 Nov, 1973. Spring-tine cultivated: 21 Mar, 1974. Seed sown: 1 Apr. Weedkiller applied: 21 May. Combine harvested: 23 Aug. Previous crops: Spring beans and potatoes 1972, spring barley 1973.

NOTE: Ear counts were made at harvest time. Mildew (*Erysiphe graminis*) was assessed on a number of occasions during the season.

Standard error per plot.

Grain, tonnes/hectare: 0.155 or 2.8% (30 d.f.)

74/R/B/7

TABLES OF MEANS

GRAIN: TONNES/HECTARE

FUNGICIDE

0	ED	ES1	ES2	TSL	T82	ED T82	ED TS3	T81 3	CTS 123	CH82	Mean
4.61	5.26	5.37	5.06	5.83	5.38	5.69	5.57	6.29	6.45	4.94	5.50

STANDARD ERROR OF DIFFERENCES

FUNGICIDE

0.109

Mean D.M. % 85.8