

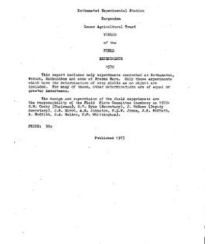
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Yields of the Field Experiments 1972

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72/R/B/4 Barley Times of Applying Fungicides

Rothamsted Research

Rothamsted Research (1973) *72/R/B/4 Barley Times of Applying Fungicides ; Yields Of The Field Experiments 1972*, pp 309 - 310 - DOI: <https://doi.org/10.23637/ERADOC-1-62>

72/R/B/4

BARLEY

TIMES OF APPLYING FUNGICIDES

Object: To compare specified stages of crop growth with spore trapping data as a means of determining the optimum time to apply a spray of mildewicide to barley - Pastures.

Sponsor: A. Bainbridge.

Design: 6 x 6 Latin square.

Whole plot dimensions: 4.27 x 9.15. Area harvested: 0.00195.

Treatments (T):-

None	(0)
Seed dressed with ethirimol	(DE)
Sprayed with tridemorph at 0.53 kg in 390 l	
at G.S.5 (leaf sheaths strongly erected) on 22 May	(S1)
at G.S.8 (last leaf just visible) on 14 June	(S2)
at G.S.10 (ear emergence) on 22 June	(S3)
and after the first peak spore catch (on 2 June)	(S4)

Basal applications: 440 kg (20:15:15) combine drilled. Weedkillers: Paraquat at 0.56 kg ion in 220 l. Bromoxynil, ioxynil, dichlorprop and MCPA ('Tetroxone' at 5.6 l in 220 l).

Seed: Zephyr sown at 160 kg.

Cultivations, etc.: Paraquat applied: 2 Oct, 1971. Ploughed: 18 Nov. Seed combine drilled: 23 Mar, 1972. 'Tetroxone' applied: 8 May. Combine harvested: 22 Aug. Previous crops: Beans 1970, barley 1971.

NOTE: Counts were made of seedling emergence and fertile tillers. Measurements of crop height were made. Thousand grain weights were taken, and foliar diseases were assessed weekly during the season.

Standard error per plot.

Grain, tonnes/hectare: 0.382 or 6.7% (20 d.f.)

72/R/B/4

TABLE OF MEANS

GRAIN: TONNES/HECTARE

T						Mean
O	DE	SL	S2	S3	S4	
5.13	5.53	5.89	5.86	5.63	6.00	5.67

STANDARD ERRORS OF DIFFERENCES

T 0.220

Mean D.M. %: 84.4