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# Yields of the Field Experiments 1971

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## 71/R/B/8 Times of Applying Ethirimol - Barley

### Rothamsted Research

Rothamsted Research (1972) *71/R/B/8 Times of Applying Ethirimol - Barley* ; Yields Of The Field Experiments 1971, pp 281 - 282 - DOI: <https://doi.org/10.23637/ERADOC-1-97>

71/R/B/8

BARLEY

TIMES OF APPLYING ETHIRIMOL

Object: To study the effects of ethirimol, applied at defined stages of mildew (*Erysiphe graminis*) epidemic and crop growth on subsequent mildew development and yield - Pastures.

Design: 4 randomised blocks of 5 plots.

Whole plot dimensions: 4.27 x 9.14. Area harvested: 0.00260.

Treatments: No systemic fungicide (0)  
Seed dressing ethirimol at 1.8 kg (D)  
Spray application of 0.90 kg ethirimol in 337 l  
at different times:  
When mildew developing on lowest leaf sheaths (S1)  
At start of flag leaf emergence (S2)  
At start of ear emergence (S3)

Basal applications: 377 kg (20:10:10) combine drilled. Weedkiller: Ioxynil at 0.53 kg plus mecoprop at 1.58 kg in 225 l.

Cultivations, etc.: Ploughed: 5 Nov, 1970. Seed combine drilled at 156 kg: 12 Mar, 1971. Weedkiller applied: 12 May. Ethirimol sprays applied: S1 - 12 May, S2 - 4 June, S3 - 15 June. Combine harvested: 18 Aug. Variety: Zephyr. Previous crops: Barley 1969, spring beans 1970.

NOTE: Samples were taken for assessment of mildew (*Erysiphe graminis*) and other foliar diseases.

Standard error per plot.

Grain, tonnes/hectare: 0.383 or 7.5% (12 d.f.)

71/R/E/8

SUMMARY OF RESULTS

GRAIN: TONNES/HECTARE

0	D	S1	S2	S3	Mean
		(±0.192)			
4.69	5.61	5.21	4.90	5.23	5.13

Mean D.M. %: 85.2