

Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1971

[Full Table of Content](#)



71/R/B/9 Ethrel, Dust and Spray - Barley

Rothamsted Research

Rothamsted Research (1972) *71/R/B/9 Ethrel, Dust and Spray - Barley* ; Yields Of The Field Experiments 1971, pp 283 - 284 - DOI: <https://doi.org/10.23637/ERADOC-1-97>

71/R/B/9

BARLEY

ETHREL, DUST AND SPRAY

Object: To compare the effects of 'Ethrel', applied as dust or spray, on height and yield of barley - Pastures.

Design: 6 randomised blocks of 6 plots.

Whole plot dimensions: 2.16 x 6.71. Area harvested: 0.00087.

Treatments: 'Ethrel' (2-chloroethylphosphonic acid):-

None (0)

Dust: 3.4 kg a.i. at 2-leaf stage (D2), at 4-leaf stage (D4),
at 6-leaf stage (D6)

Spray: 1.1 kg a.i. in 337 l at 6-leaf stage (S6), at 8-leaf
stage (S8)

Basal applications: 370 kg (20:10:10). Weedkiller: 2,4-D at 0.56 kg
plus dichlorprop at 2.24 kg in 337 l.

Cultivations, etc.: Ploughed: 5 Nov, 1970. Seed drilled at 188 kg,
basal NPK applied: 29 Mar, 1971. D2 treatment applied: 27 Apr.
Weedkiller applied: 11 May. Remaining dusts applied: D4 -
19 May, D6 - 1 June. Sprays applied: S6 - 7 June, S8 - 16 June.
Combine harvested: 25 Aug. Variety: Julia. Previous crops:
Barley 1969, spring beans 1970.

NOTE: Shoot heights were measured and plant numbers counted.
Samples were taken just before harvest for total dry matter
and components of yield.

Standard error per plot.

Grain, tonnes/hectare: 0.327 or 6.5% (25 d.f.)

71/R/B/9

SUMMARY OF RESULTS

GRAIN: TONNES/HECTARE

0	D2	D4	D6	S6	S8	Mean
(±0.134)						
5.44	5.33	5.33	4.95	4.32	4.91	5.05

Mean D.M. %: 83.7