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

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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.)

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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