

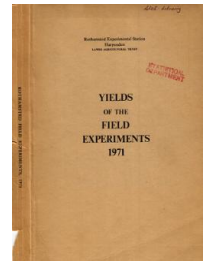
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71/R/WW/4 Ethrel, Dust and Spray - W. Wheat

Rothamsted Research

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71/R/WW/4

WINTER WHEAT

ETHREL, DUST AND SPRAY

Object: To compare the effects of 'Ethrel', applied as dust or spray, on height and yield of winter wheat - Great Knott II.

Design: 5 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: 314 kg (0:20:20), 538 kg 'Nitro-Chalk'. Weedkiller: 2,4-D at 0.56 kg plus dichloprop at 2.24 kg in 337l.

Cultivations, etc.: Deep-tine cultivated twice: 6 Oct, 1970. Seed drilled at 188 kg, basal PK applied: 14 Oct. Dusts applied: D2 - 3 Dec, D4 - 5 Feb, 1971. Weedkiller applied: 19 Apr. N applied: 21 Apr. D6 and S6 treatments applied: 22 Apr, S8: 21 May. Combine harvested: 28 Aug. Variety: Cappelle, Previous crops: Fallow 1969, potatoes 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: 0.255 or 3.3% (20 d.f.).

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SUMMARY OF RESULTS

GRAIN: TONNES/HECTARE

O	D2	D4	D6	S6	S8	Mean
(±0.114)						
8.09	7.61	7.89	7.75	7.95	7.17	7.74

Mean D.M.%: 83.0