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Numerical Results of the Field Experiments 1970

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70/R/WW/9 Winter Wheat Growth Regulators

Rothamsted Research

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WINTER WHEAT

(70/R/WW/9)

Growth regulators, Great Knott III 1970.

Design: 3 randomised blocks of 10 plots.

Area of each plot: 0.0029. Area harvested: 0.0016.

Treatments: None (2 plots per block) and all combinations of:-

1. Growth regulators: 'Ethrel'* at 0.5 lb a.i. in 30 gals. (E),
'Morphactin' at 0.08 lb a.i. in 30 gals (M).
2. Time of application: 6 May (e), 28 May (m), 11 June (l),
together with
Disbudders: 'JF 2197' (D1)
'JF 2695' (D2)
each applied at 1.35 lb a.i. in 27 gals on 30 Apr.

* 2-chloroethylphosphonic acid.

Basal applications: 290 lb (0:20:20) broadcast, 460 lb 'Nitro-Chalk'
in spring. Weedkiller: 2,4-D at 0.5 lb and dichlorprop at 2 lb
in 35 gals.

Cultivations, etc.: Deep-tine cultivated: 21 Oct, 1969. Seed
drilled at 180 lb, basal PK broadcast: 27 Oct. Basal N
applied: 6 May, 1970. Weedkiller applied: 13 May. Variety:
Cappelle. Previous crops: Spring beans 1968, potatoes 1969.

NOTE: Samples were taken just before harvest for yields, dry
weights and stem lengths.

Standard error per plot.

Grain, cwt: 3.45 or 7.7% (18 d.f.)

70/R/WH/9

SUMMARY OF RESULTS

GRAIN: CWT

O*	Ee	Em	El	Me	Mm	ML	D1	D2	Mean
(±1.41)				(±1.99)					
46.7	46.3	46.1	47.1	40.2	46.7	43.1	44.7	39.3	44.7

Mean D.M. %: 85.4

* Duplicated treatment