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Numerical Results of the Field Experiments 1970

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70/R/WS/6 Spring Wheat Growth Regulators and N

Rothamsted Research

Rothamsted Research (1971) *70/R/WS/6 Spring Wheat Growth Regulators and N* ; Numerical Results Of The Field Experiments 1970, pp 241 - 242 - DOI: <https://doi.org/10.23637/ERADOC-1-59>

SPRING WHEAT

(70/R/WS/6)

Growth regulators and N, Long Hoos V 1970.

Design: 3 randomised blocks of 18 plots.

Area of each plot: 0.0036. Area harvested: 0.0019.

Treatments: All combinations of:-

1. Growth regulators (active ingredient in 35 gals): None (0)
2 plots per block, chlormequat (CCC) at 1 lb (C1), at 2 lb (C2),
'Ethrel'* at 1 lb (E1), at 2 lb (E2).
2. Nitrogen: 0.6 (N1), 1.2 (N2), 1.8 (N3) cwt N as 'Nitro-Chalk'.

* 2-chloroethylphosphonic acid.

Basal applications: 320 lb (0:20:20) broadcast. Weedkiller: 2,4-D
at 0.5 lb and dichlorprop at 2 lb in 20 gals.

Cultivations, etc.: Deep-tine cultivated: 27 Oct, 1969. Seed
drilled at 170 lb, basal PK broadcast: 22 Apr, 1970. N applied:
4 May. Weedkiller applied: 27 May. Growth regulators applied:
Chlormequat - 28 May, 'Ethrel' - 11 June. Combine harvested:
29 Aug. Variety: Kolibri. Previous crops: Spring oilseed rape
1968, potatoes 1969.

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

Standard error per plot.

Grain, cwt: 3.18 or 14.2% (34 d.f.)

70/R/WS/6

SUMMARY OF RESULTS

GRAIN: CWT

	O*	C1	C2	E1	E2	Mean
	(±1.30)		(±1.84)			(±0.75)
N1	24.6	21.6	22.2	20.7	18.6	22.1
N2	23.3	21.0	27.5	17.8	17.9	21.8
N3	20.9	24.9	30.3	21.9	19.8	23.1
Mean	22.9 (±0.75)	22.5	26.7 (±1.06)	20.1	18.8	22.3

Mean D.M. %: 83.1

* Duplicated level