

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

Numerical Results of the Field Experiments 1970

[Full Table of Content](#)



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

	D*	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