

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](#)

International Agricultural Experiments
Agriculture
Lancashire Agricultural Station
Rothamsted, Bucks.
HP23 7QJ
United Kingdom
1970
Rothamsted Research
Rothamsted Research is a registered charity (No. 263886) and a company limited by guarantee (No. 263886) under the Companies Act 2006. Registered office: Rothamsted Research, Rothamsted, Harpenden, Herts. AL5 2JQ. Rothamsted Research is a company limited by guarantee (No. 263886) under the Companies Act 2006. Registered office: Rothamsted Research, Rothamsted, Harpenden, Herts. AL5 2JQ.

70/R/WW/8 Winter Wheat Gaines, Seed Rates, N and Ccc

Rothamsted Research

Rothamsted Research (1971) *70/R/WW/8 Winter Wheat Gaines, Seed Rates, N and Ccc* ; Numerical Results Of The Field Experiments 1970, pp 227 - 228 - **DOI:**

<https://doi.org/10.23637/ERADOC-1-59>

WINTER WHEAT

(70/R/WW/8)

Gaines, seed rates, N and CCC, Great Knott III 1970.

Design: A single replicate of 4 x 4 x 4 in 4 blocks of 4 plots, each split into 4, certain 3 factor interactions being confounded with block differences.

Area of each sub plot: 0.0036. Area harvested: 0.0021.

Treatments: All combinations of:-

- Whole plots: 1. Varieties and seed rates: Cappelle at 168 lb (CH), Gaines at 56 lb (GL), at 112 lb (GM), at 168 lb (GH).
Row spacing: 5 inches for each variety.
- Sub plots: 2. Nitrogen: 0.6 (N1), 1.2 (N2), 1.8 (N3), 2.4 (N4) cwt N as 'Nitro-Chalk'.
3. Chlormequat (CCC): None (C0), 1 (C1), 2 (C2), 3 (C3) lb chlormequat in 35 gals.

Basal applications: 290 lb (0:20:20) broadcast. 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 and basal PK broadcast: 27 Oct. N applied: 5 May, 1970. CCC applied: 7 May. Weedkiller applied: 13 May. Combine harvested: 25 Aug. Previous crops: Spring beans 1968, potatoes 1969.

NOTE: Shoot heights were measured and plant numbers counted. Samples were taken just before harvest for yield and dry matter.

Standard errors per plot. (estimated from unconfounded 3 factor interactions).

Grain, cwt: Whole plot: 1.37 or 3.1% (6 d.f.)
Sub plot: 3.10 or 6.9% (18 d.f.)

70/R/WW/8

SUMMARY OF RESULTS

GRAIN: CWT

	N1	N2	N3	N4	C0	C1	C2	C3	Mean
	(1) and (2)				(1) and (2)				(±0.69)
CH	43.8	46.9	46.1	43.6	45.5	45.3	45.7	43.9	45.1
GL	40.0	42.7	42.5	42.4	42.2	42.1	40.8	42.4	41.9
GM	42.5	45.9	46.1	44.7	44.4	45.3	42.6	46.8	44.8
GH	44.3	49.2	47.8	46.6	46.0	46.5	48.0	47.3	47.0
					(±1.55)				(±0.77)
			N1		41.1	43.8	43.9	41.8	42.6
			N2		47.3	44.5	45.2	47.7	46.2
			N3		47.5	45.7	43.9	45.3	45.6
			N4		42.2	45.2	44.2	45.7	44.3
Mean (±0.77)					44.5	44.8	44.3	45.1	44.7

Mean D.M. %: 83.7

- (1) (±1.51) For use in vertical and diagonal comparisons only
 (2) (±1.55) For use in horizontal and interaction comparisons only