



## 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.)

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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