



SPRING WHEAT

(70/R/WS/7)

Dwarf wheat, seed rates N and CCC, Long Hoos V 1970.

Design: A single replicate of 4 x 4 x 4 in 4 blocks of 4 plots,  
each split into 4 sub plots.

Area of each sub plot: 0.0036. Area harvested: 0.0020.

Treatments: All combinations of:-

Whole plots: 1. Varieties and seed rates: VR 6/57 (V), Benoist 257 (B),  
Inia (I), Kolibri (K).

2. Nitrogen: 0.6 (N1), 1.2 (N2), 1.8 (N3), 2.4 (N4) cwt  
N as 'Nitro-Chalk'.

Sub plots: 3. Chlormequat (CCC): None (C0), 1 (C1), 2 (C2), 3 (C3)  
lb in 35 gals.

Seed rate 112 lb (except Kolibri 168 lb). Row spacing: 5 inches for  
each variety.

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,  
basal PK applied: 22 Apr, 1970. Weedkiller applied: 27 May. N  
applied: 4 May. CCC applied: 28 May. Combine harvested: 29 Aug.  
Previous crops: Spring oilseed rape 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: 1.95 or 12.0% (6 d.f.)

Sub plot: 1.81 or 11.2% (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)				(±0.97)
V	15.2	15.2	14.7	16.7	15.3	14.9	15.8	15.7	15.4
B	12.7	13.9	13.3	14.2	13.2	13.6	12.9	14.3	13.5
I	11.1	11.1	10.0	10.6	10.5	10.5	11.8	10.0	10.7
K	25.0	23.2	24.3	27.4	23.3	26.9	24.5	25.2	25.0
					(±0.91)				(±0.45)
			N1		15.5	14.9	17.1	16.5	16.0
			N2		16.7	16.4	14.2	16.1	15.9
			N3		12.4	17.0	15.6	17.2	15.5
			N4		17.7	17.7	18.1	15.3	17.2
Mean (±0.45)					15.6	16.5	16.3	16.3	16.2

Mean D.M. %: 84.5

(1) (±1.25) For use in vertical and diagonal comparisons only

(2) (±0.91) For use in horizontal and interaction comparisons only