



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