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Numerical Results of the Field Experiments 1970



Full Table of Content

70/R/WS/7 Spring Wheat Dwarf Wheat, Seed Rates N and Ccc

Rothamsted Research

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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 (CO), 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.)

70/R/WS/7

SUMMARY OF RESULTS

GRAIN: CWT

	Nl	N2	N3	N4	CO	Cl	C2	c3	Mean
	(1) and (2)				(1) and (2)				(±0.97)
V B I K	15.2 12.7 11.1 25.0	13.9	10.0	16.7 14.2 10.6 27.4	13.2	14.9 13.6 10.5 26.9	12.9	14.3	13.5
	(II) I will be the total				(±0.91)				(±0.45)
			N1 N2 N3 N4		15.5 16.7 12.4 17.7	16.4	17.1 14.2 15.6 18.1	16.1	15.9
Mean (±0.45)	1100	100	B sh		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

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