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Numerical Results of the Field Experiments 1970

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70/R/WS/3 Spring Wheat Ccc (Ccc) in Grain

Rothamsted Research

Rothamsted Research (1971) *70/R/WS/3 Spring Wheat Ccc (Ccc) in Grain* ; Numerical Results Of The Field Experiments 1970, pp 235 - 236 - DOI: <https://doi.org/10.23637/ERADOC-1-59>

SPRING WHEAT

(70/R/WS/3)

CCC* in grain, Long Hoos V 1970.

* Chlormequat.

Design: 4 randomised blocks of 4 plots, split into 3.

Area of each sub-plot: 0.0096. Area harvested: 0.0064.

Treatments: All combinations of:-

Whole plots: 1. CCC in grain: None (G0), sprayed the previous year with 2 lb chlormequat in 40 gals just after ear emergence (GG).

2. CCC spray in spring 1970: None (S0), 1.5 lb chlormequat in 35 gals on 28 May, 1970 (SS).

Sub-plots: 3. Nitrogen: 0.6 (N1), 1.2 (N2), 1.8 (N3) cwt N as 'Nitro-Chalk'.

Basal applications: 225 lb (0:20:20) combine drilled. 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 combine drilled at 170 lb: 19 Apr, 1970. N applied: 28 Apr. Weedkiller applied: 27 May. Combine harvested: 28 Aug. Variety: Kolibri. Previous crops: Spring oilseed rape 1968, potatoes 1969.

NOTE: Crop samples were taken from 2 blocks on 14 Aug for measurements of height and components of yield.

Standard errors per plot. Grain, cwt:

Whole plot: 1.46 or 4.9% (9 d.f.)

Sub plot: 2.57 or 8.7% (24 d.f.)

70/R/WS/3

SUMMARY OF RESULTS

GRAIN: CWT

	SO	SS	N1	N2	N3	Mean
	(±0.73)		(1) and (2)			(±0.51)
GO	29.8	29.5	29.3	29.0	30.8	29.7
GG	29.4	30.0	27.7	30.2	31.1	29.7
			(1) and (2)			(±0.51)
		SO	29.1	29.3	30.5	29.6
		SS	27.9	29.9	31.4	29.7
Mean (±0.64)			28.5	29.6	30.9	29.7

Mean D.M. %: 85.9

(1) (±0.90) For use in vertical and diagonal comparisons only

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

STRAW: CWT

	SO	SS	N1	N2	N3	Mean
GO	13.8	11.7	11.3	12.9	14.0	12.8
GG	12.7	11.8	12.1	12.1	12.5	12.2
		SO	12.8	12.7	14.1	13.2
		SS	10.6	12.3	12.3	11.8
Mean			11.7	12.5	13.2	12.5

Mean D.M. %: 82.6