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Numerical Results of the Field Experiments 1970

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70/R/WW/6 Winter Wheat Ccc (Ccc) in Grain

Rothamsted Research

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WINTER WHEAT

(70/R/WW/6)

CCC* in grain, Great Knott III 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), 2 lb chlormequat in 39 gals on 14 May, 1970 (SS).

Sub-plots: 3. Nitrogen: 0.3 (N1), 0.6 (N2), 0.9 (N3) cwt N as 'Nitro-Chalk'.

Basal applications: 280 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: 21 Oct, 1969. Seed combine drilled at 180 lb: 24 Oct. N applied: 8 May, 1970. Weedkiller applied: 13 May. Combine harvested: 28 Aug. Variety: Joss Cambier. Previous crops: Spring beans 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: 2.02 or 4.7% (9 d.f.)

Sub plot: 2.63 or 6.1% (24 d.f.)

70/R/WW/6

SUMMARY OF RESULTS

	SO	SS	N1	N2	N3	Mean
GRAIN: CWT						
	(±1.01)		(1) and (2)			(±0.71)
GO	42.6	44.1	40.0	43.3	46.7	43.3
GG	42.5	44.0	38.7	43.9	47.0	43.2
			(1) and (2)			(±0.71)
		SO	38.7	44.0	44.9	42.5
		SS	40.0	43.2	48.8	44.0
Mean (±0.66)			39.3	43.6	46.9	43.3
STRAW: CWT						
GO	21.6	19.2	18.3	20.4	22.6	20.4
GG	22.8	20.5	19.3	21.9	23.7	21.6
		SO	20.7	22.0	23.9	22.2
		SS	16.9	20.2	22.4	19.8
Mean			18.8	21.1	23.1	21.0

Mean D.M. %: Grain: 85.3
Straw: 92.2

- (1) (±1.04) For use in vertical and diagonal comparisons only
(2) (±0.93) For use in horizontal and interaction comparisons only