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Yields of the Field Experiments 1966

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66/W/WW401/DA/7 Spring Wheat - Ccc and Irrigation

Rothamsted Research

Rothamsted Research (1967) *66/W/WW401/DA/7 Spring Wheat - Ccc and Irrigation* ; Yields Of The Field Experiments 1966, pp 259 - 260 - DOI: <https://doi.org/10.23637/ERADOC-1-158>

66/De/7.1

SPRING WHEAT

(WW 401)

CCC*, irrigation, and nitrogen - Woburn Butt Close (Series III) 1966.

* Chloroethyltrimethylammonium chloride - a dwarfing compound.

Design: 6 blocks of 2 whole plots, CCC on half plots, nitrogen on quarter plots, 2 d.f. for N confounded with quarter plot pairs, one in each direction.

Area of each quarter plot: 0.0143. Area harvested: 0.0032.

Treatments: All combinations of:-

Main plots: 1. Irrigation: None (0), full irrigation (C).

Half plots: 2. CCC: None (0), sprayed with 2.5 lb CCC in 43 gals water (S).

Quarter

plots: 3. Nitrogen: 0.4 (N1), 0.8 (N2), 1.2 (N3), 1.6 (N4)
cwt N as 'Nitro-Chalk'.

Basal applications: 240 lb (0:14:28) combine drilled, sprayed with ioxynil/mecoprop (Actril C at 5 pints in 35 gals).

Cultivations, etc.: Ploughed: Nov 24, 1965. Seed drilled at 160 lb: Mar 14, 1966. 'Nitro-Chalk' applied: Mar 16. Weedkiller applied: May 13. CCC applied: May 16. C plots irrigation applied at 0.5 inches on each occasion: May 25, June 1, June 3, June 9, July 6, July 15, (total 3 inches). Combine harvested: Sept 7. Variety: Kloka.

NOTE: Weekly samples of 3 feet of row lengths were taken from each plot for chemical analysis, April - June.

Standard error per plot (pooled).

Grain: 4.23 or 10.5% (30 d.f.)

66/Da/7.2

SUMMARY OF RESULTS

GRAIN

	N1	N2	N3	N4	Mean
Mean (± 1.22)	28.1	40.5	45.8	47.3	40.4
		(± 1.73)			(± 0.86)
O	25.5	38.5	40.6	41.8	36.6
C	30.7	42.5	51.1	52.8	44.3
O	28.3	41.8	43.5	46.6	40.0
S	28.0	39.1	48.2	48.1	40.8
	O	S			
	(± 1.22)				
O	35.5	37.7			
C	44.5	44.0			

Mean D.M.: 82.3