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Yields of the Field Experiments 1967

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67/W/WW101/DA/9 Spring Wheat - Ccc and Irrigation

Rothamsted Research

Rothamsted Research (1968) *67/W/WW101/DA/9 Spring Wheat - Ccc and Irrigation* ; Yields Of The Field Experiments 1967, pp 293 - 295 - DOI: <https://doi.org/10.23637/ERADOC-1-157>

67/Da/9.1

SPRING WHEAT

(WW 101)

CCC, irrigation, and nitrogen - Woburn Butt Close (Series II) 1967.

Design: 4 blocks of 2 plots split into 2 for CCC and again into 2 for nitrogen N₄ - N₃ + N₂ - N₁ on half plots.

Area of each quarter plot: 0.0136. Area harvested: 0.0036.

Treatments: All combinations of:-

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

Half plots: 2. Chlormequat*: None (O), chlormequat sprayed at 2.5 lb in 37 gals (S).

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

* 2-chloroethyltrimethylammonium chloride, formerly described as CCC.

Basal applications: 240 lb (0:14:28) combine drilled. Weedkiller: Ioxynil/mecoprop (Actril C at 5 pints in 25 gals).

Cultivations, etc.: Ploughed: Nov 3, 1966. Basal PK applied, seed drilled at 170 lb: Mar 7, 1967. 'Nitro-Chalk' applied: Mar 14. Weedkiller applied: Apr 28. CCC applied: May 23. C plots, irrigation applied at 0.25 inches: July 11, July 21, at 0.5 on each of the following occasions: June 12, June 15, July 4, July 10, July 17, and at 1.0 inch: June 20 (total 4 inches). Combine harvested: Aug 24. Variety: Kloka.

- NOTES: (1) Plant samples were taken on July 5 for estimates of dry weight of tops and roots. Soil cores were also taken for estimates of the weight of roots left in the soil.
- (2) Sub-plots 101 - 132 were sampled on Aug 22 for estimates of straw height and weight.

Standard errors per plot. Grain:
1/2 plot: 2.38 or 5.3% (4 d.f.)
1/4 plot: 2.56 or 5.7% (8 d.f.)

67/Da/9.2

SUMMARY OF RESULTS

GRAIN

	N1	N2	N3	N4	Mean
	(1) and (2)				
Mean	37.5	49.4	48.4	44.1	44.8
	(3) and (4)				
O	35.7	47.2	42.9	38.4	41.0
C	39.2	51.5	53.9	49.9	48.6
	(5) and (6)				(±0.84)
O	37.6	48.7	49.7	42.9	44.7
S	37.3	50.0	47.1	45.4	45.0

Mean D.M. %: 80.6

- (1) (±0.90) For use in comparisons involving N4 - N2 or N3 - N1
- (2) (±1.06) For use in all other comparisons
- (3) (±1.28) For use in horizontal and interaction comparisons
- (4) (±1.68) For use in all other horizontal and interaction comparisons
- (5) (±1.28) For use in horizontal and interaction comparisons involving N2 - N2 or N3 - N1
- (6) (±1.60) For use in all other comparisons

67/Da/9.3

	STRAW				Mean
	N1	N2	N3	N4	
Mean	33.4	50.3	54.9	57.8	49.1
O	31.6	47.8	50.0	55.8	46.3
C	35.2	52.8	59.8	59.8	51.9
O	37.6	53.1	61.6	62.7	53.7
S	29.2	47.5	48.3	52.9	44.5

Mean D.M. %: 83.2