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Yields of the Field Experiments 1957

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57/R/CA/4 Spring Wheat - Levels and Time of N

Rothamsted Research

Rothamsted Research (1958) *57/R/CA/4 Spring Wheat - Levels and Time of N* ; Yields Of The Field Experiments 1957, pp 72 - 72 - DOI: <https://doi.org/10.23637/ERADOC-1-177>

57/Ca/4

SPRING WHEAT

Levels and times of application of nitrogen - Little Hoos 1957.

Design: 22 treatments arranged in 4 blocks of 13 plots each, the control and 3 of the treatments occurring in every block, the other 18 treatments occurring in 2 blocks. The total amounts of N applied per block were equal.

Area of each plot: 0.0212 acres. Area harvested: 0.0140 acres.

Treatments: None, and all combinations of:-

Nitrogen: 0.3; 0.6; 0.9 cwt N per acre as 'Nitro-Chalk'.

Times of application: All in seedbed (S); all as early top dressing (E); all as late top dressing (L); $\frac{1}{2}S$ & $\frac{1}{2}E$; $\frac{1}{2}S$ & $\frac{1}{2}L$; $\frac{1}{2}E$ & $\frac{1}{2}L$; $\frac{1}{3}S$, $\frac{1}{3}E$, $\frac{1}{3}L$.

Basal dressing: 1 cwt superphosphate per acre combine drilled with seed.

Cultivations, etc.: Ploughed: Oct 22, 1956 and Jan 23, 1957. Seedbed 'Nitro-Chalk' applied, seed combine drilled at $3\frac{1}{2}$ bushels per acre: Mar 21. Early 'Nitro-Chalk' top dressing applied: Apr 17. Late 'Nitro-Chalk' top dressing applied: May 15. Sprayed with MCPA, 2 pints in 40 gallons per acre: May 30. Combine harvested: Aug 31. Variety: Koga II. Previous crop: Wheat and barley.

Standard error per plot.

Grain (at 85% dry matter): 1.83 cwt per acre or 7.5% (27 d.f.)

Note: A similar experiment at Woburn was abandoned due to herbicide damage.

Summary of Results

Grain (at 85% dry matter): cwt per acre

N: cwt per acre	Time of application							Mean		
	S	E	L	$\frac{1}{2}S\frac{1}{2}E$	$\frac{1}{2}S\frac{1}{2}L$	$\frac{1}{2}E\frac{1}{2}L$	$\frac{1}{3}S\frac{1}{3}E\frac{1}{3}L$			
								(±1.38)	(±0.92)	(±0.46)
None										15.6 ⁽¹⁾
0.3	24.5	21.2	22.5	22.0	23.2	24.4	22.9			23.0
0.6	24.2	28.6	26.4	25.2	26.6	24.9	24.5			25.6
0.9	28.5	26.5	26.3	25.8	28.7	26.7	26.7			27.0
Mean (±0.77)	25.7	25.4	25.1	24.3	26.2	25.3	24.7 ⁽²⁾			24.4

(1) ±0.92 (2) ±0.53

Mean dry matter % as harvested: 83.2