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# Yields of the Field Experiments 1958

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## 58/R/CA/4 Winter Wheat - Levels and Times of N

### Rothamsted Research

Rothamsted Research (1959) *58/R/CA/4 Winter Wheat - Levels and Times of N* ; Yields Of The Field Experiments 1958, pp 81 - 81 - DOI: <https://doi.org/10.23637/ERADOC-1-181>

WINTER WHEAT

Levels and times of application of N - Great Knott I.

Design: 2 randomized blocks of 16 plots each.

Area of each plot: 0.0212 acres. Area harvested: 0.0141 acres.

Treatments: None (2 plots per block), and all combinations of:-

Nitrogen: 0.6; 1.2 cwt N per acre as sulphate of ammonia.

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

Basal dressing: 4 cwt per acre compound fertilizer (10% P<sub>2</sub>O<sub>5</sub>, 20% K<sub>2</sub>O) combine drilled with seed.

Cultivations, etc.: Ploughed: Sept 13, 1957. Seedbed sulphate of ammonia applied: Oct 9. Seed combine drilled at 2 $\frac{1}{2}$  bushels per acre: Oct 11. Early top dressing of sulphate of ammonia applied: Mar 14, 1958. Sprayed with CMFP at 6 pints in 40 gallons per acre: Apr 30. Late top dressing of sulphate of ammonia applied: May 17. Combine harvested: Sept 2. Variety: Cappelle. Previous crop: Winter wheat.

Standard error per plot.

Grain (at 85% dry matter): 2.33 cwt per acre or 5.6% (16 d.f.)

Summary of Results

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

N: cwt per acre	Time of application							Mean	
	A	E	L	$\frac{1}{2}A\frac{1}{2}E$	$\frac{1}{2}A\frac{1}{2}L$	$\frac{1}{2}E\frac{1}{2}L$	$\frac{1}{3}A\frac{1}{3}E\frac{1}{3}L$		
								(±1.65)	(±0.62)
None									33.8 <sup>(1)</sup>
0.6	40.6	43.7	39.4	42.5	39.1	39.8	40.0		40.7
1.2	46.0	46.7	41.6	44.4	44.4	47.2	45.6		45.1
Mean (±1.16)	43.3	45.2	40.5	43.4	41.8	43.5	42.8		41.8
Diff. (±2.33)	5.4	3.0	2.2	1.9	5.3	7.4	5.6		4.4 (±0.88)

(1) ±1.16

A applied in seedbed

E applied in March

L applied in May.

Mean dry matter % as harvested: 80.0