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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% P₂O₅, 20% K₂O) 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 ⁽¹⁾ |
| 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