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## Yields of the Field Experiments 1958

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### 58/R/CA/1 Winter Wheat - Seed Rates, Sowing Dates and N

#### Rothamsted Research

Rothamsted Research (1959) *58/R/CA/1 Winter Wheat - Seed Rates, Sowing Dates and N* ; Yields Of The Field Experiments 1958, pp 76 - 77 - DOI: <https://doi.org/10.23637/ERADOC-1-181>

58/Oa/1.1

#### WINTER WHEAT

Seed rates, sowing dates and levels of nitrogen - Great Field I 1958.

Design: 3 randomized blocks of 9 plots, each plot being split into 2 for the application of nitrogen.

Area of each sub plot: 0.0148 acres. Area harvested: 0.0096 acres.

Treatments. All combinations of:-

Seed rates: 2; 3; 4 bushels per acre.

Sowing dates: Sept 17; Oct 7; Nov 8, 1957.

Nitrogen: 0.6; 1.2 cwt N per acre applied as 'Nitro-Chalk' in two equal parts in early February and late April.

Basal dressing: 3 cwt compound fertilizer (10%  $P_2O_5$ , 20%  $K_2O$ ) per acre broadcast in seed bed, 3 cwt compound fertilizer (5% N,  $12\frac{1}{2}\%$   $P_2O_5$ ,  $12\frac{1}{2}\%$   $K_2O$ ) per acre combine drilled with seed.

Cultivations, etc.: Ploughed: Aug 21, 1957. Compound fertilizer applied by hand: First sowing - Sept 17; second sowing - Oct 7; third sowing - Nov 8. First dressing of N applied: Feb 15, 1958. Sprayed with CMPP at 6 pints in 40 gallons per acre: Apr 17. Second dressing of N applied: Apr 24. Combine harvested: Sept 10. Variety: Cappelle. Previous crop: Potatoes.

Standard errors per plot. Grain (at 85% dry matter):

Whole plot: 2.36 cwt per acre or 7.7% (16 d.f.)

Sub plot: 2.25 cwt per acre or 7.3% (18 d.f.)

Note. Estimates of % area lodged and counts of plant shoot and ear number were made. All plots were completely lodged at harvest.

58/Ca/1.2

Summary of Results

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

| Seed rate:<br>bushels<br>per acre | Date of sowing |            |                   | N: cwt<br>per acre |      | Diff.   | Mean    |
|-----------------------------------|----------------|------------|-------------------|--------------------|------|---------|---------|
|                                   | Sept<br>17th   | Oct<br>7th | Nov<br>8th        | 0.4                | 0.8  |         |         |
|                                   |                | (±0.96)    |                   | (±0.95)*           |      | (±1.06) | (±0.56) |
| 2                                 | 33.2           | 31.1       | 34.3              | 35.0               | 30.7 | -4.3    | 32.8    |
| 3                                 | 29.3           | 27.2       | 33.7              | 30.8               | 29.3 | -1.5    | 30.1    |
| 4                                 | 31.2           | 29.2       | 26.9              | 29.8               | 28.4 | -1.4    | 29.1    |
|                                   |                |            | Date of<br>sowing | (±0.95)*           |      | (±1.06) | (±0.56) |
|                                   |                |            | Sept 17th         | 31.3               | 31.1 | -0.2    | 31.2    |
|                                   |                |            | Oct 7th           | 30.1               | 28.1 | -2.0    | 29.1    |
|                                   |                |            | Nov 8th           | 34.1               | 29.2 | -4.9    | 31.6    |
|                                   |                |            | Mean              | 31.8               | 29.5 | -2.3    | 30.7    |
|                                   |                |            |                   |                    |      | (±0.61) |         |

\*For use in vertical and diagonal comparisons.

Mean dry matter % as harvested: 74.1