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## Yields of the Field Experiments 1960

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### 60/R/CA/1 Winter Wheat - Seed Rates, Sowing Dates and N (After Non-cereal Crop)

#### Rothamsted Research

Rothamsted Research (1961) *60/R/CA/1 Winter Wheat - Seed Rates, Sowing Dates and N (After Non-cereal Crop)* ; Yields Of The Field Experiments 1960, pp 83 - 84 - DOI:

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60/Ca/1.1

### WINTER WHEAT

Sowing dates, seed rates and levels of nitrogen (after non-cereal crop) -  
Great Knott III 1960.

Design: 3 randomized blocks of 12 plots each, plots being split into 2  
for the application of nitrogen.

Area of each sub plot: 0.0193 acres. Area harvested: 0.0126 acres.

Treatments. All combinations of:-

Whole plots. Sowing dates: Oct 2; Oct 21; Nov 23; Dec 18, 1959.  
Seed rates: 2; 3; 4 bushels per acre.

Sub plots. Nitrogen (in addition to basal): 0.46; 0.92 cwt N  
per acre applied as 'Nitro-Chalk' in two equal parts on Feb 17  
and Apr 28.

Basal dressing: 3 cwt compound fertilizer (10% P<sub>2</sub>O<sub>5</sub>, 20% K<sub>2</sub>O) per acre  
broadcast in seed bed, 3 cwt compound fertilizer (5% N, 12½% P<sub>2</sub>O<sub>5</sub>,  
12½% K<sub>2</sub>O) per acre combine drilled with seed.

Cultivations, etc.: Ploughed: Sept 8, 1959. Compound fertilizer  
applied: First sowing - Sept 28; second sowing - Oct 20; third  
sowing - Nov 17; fourth sowing - Dec 17. Sprayed with TCB/MCPA  
at 4 pints in 40 gallons per acre: Apr 22, 1960. Combine  
harvested: Aug 30. Variety: Cappelle. Previous crops:  
1957 - Spring wheat; 1958 - Spring beans; 1959 - Early potatoes.

Note. Counts of plant shoot and ear number, and estimates of plant  
height and % area lodged were made.

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

Whole plot: 1.93 cwt per acre or 4.0% (22 d.f.)  
Sub plot: 2.00 cwt per acre or 4.1% (24 d.f.)



60/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 per<br>acre (including<br>basal) |      | Diff.   | Mean    |
|-----------------------------------|----------------|-------------|-------------|-------------------|---|------|---------|---------|
|                                   | Oct<br>2nd     | Oct<br>21st | Nov<br>23rd | Dec<br>18th       | 0.6                                     | 1.1  |         |         |
|                                   | (±1.11)        |             |             |                   | (±0.69)*                                |      | (±0.82) | (±0.56) |
| 2                                 | 50.8           | 48.6        | 47.8        | 44.8              | 47.4                                    | 48.5 | +1.1    | 48.0    |
| 3                                 | 51.4           | 48.9        | 48.8        | 46.4              | 48.5                                    | 49.2 | +0.7    | 48.9    |
| 4                                 | 52.0           | 43.5        | 47.4        | 50.5              | 48.8                                    | 47.9 | -0.9    | 48.3    |
|                                   |                |             |             | Date of<br>sowing | (±0.80)*                                |      | (±0.94) | (±0.64) |
|                                   |                |             |             | Oct 2nd           | 50.3                                    | 52.5 | +2.2    | 51.4    |
|                                   |                |             |             | Oct 21st          | 47.5                                    | 46.4 | -1.1    | 47.0    |
|                                   |                |             |             | Nov 23rd          | 49.1                                    | 46.9 | -2.2    | 48.0    |
|                                   |                |             |             | Dec 18th          | 46.0                                    | 48.4 | +2.4    | 47.2    |
|                                   |                |             |             | Mean              | 48.2                                    | 48.5 | +0.3    | 48.4    |
|                                   |                |             |             |                   |   |      | (±0.47) |         |

\*For use in vertical and diagonal comparisons only.

Mean dry matter % as harvested: 78.6