

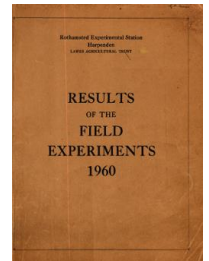
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## Yields of the Field Experiments 1960

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### 60/R/CA/3 Winter Wheat - Row Spacing, Seed Rates and N

#### Rothamsted Research

Rothamsted Research (1961) *60/R/CA/3 Winter Wheat - Row Spacing, Seed Rates and N* ; Yields Of The Field Experiments 1960, pp 87 - 88 - DOI: <https://doi.org/10.23637/ERADOC-1-180>

60/Ca/3.1

# WINTER WHEAT

Row spacing, seed rates and nitrogen - Highfield Drive 1960.

Design: 2 replicates of a  $3 \times 2 \times 3$  experiment arranged in 6 blocks of 6 plots each, certain interactions being confounded with block differences.

Area of each plot: 0.0148 acres. Area harvested: 0.0100 acres.

Treatments. All combinations of:-

Row spacing: 7"; 14"; 7" with every 4th row blank (7B).

Seed rate bushels per acre: 2; 4 when all coulter sowing.

Levels of nitrogen (excluding basal): 0.5; 1.0; 1.5 cwt N per acre as 'Nitro-Chalk' 21.

Basal dressing:  $2\frac{1}{2}$  cwt compound fertiliser (6% N, 15%  $P_2O_5$ , 15%  $K_2O$ ) per acre combine drilled.

Cultivations, etc.: Ploughed: Sept 4, 1959. Ground chalk applied at 4.6 tons per acre: Sept 30. Seed combine drilled: Oct 10.

'Nitro-Chalk' applied: Feb 29, 1960. Sprayed with CMFP at 6 pints in 40 gallons per acre: Apr 21. Combine harvested: Aug 31.

Variety: Cappelle. Previous crop: Beans.

Standard error per plot.

Grain (at 85% dry matter): 2.032 cwt per acre or 5.5% (13 d.f.)

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

60/0a/3.2

### Summary of Results

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

| Seed rate:<br>bushels<br>per acre | Row spacing:<br>inches |      |      |
|-----------------------------------|------------------------|------|------|
|                                   | 7                      | 14   | 7B   |
|                                   | (±0.83)                |      |      |
| 2                                 | 40.3                   | 36.5 | 37.8 |
| 4                                 | 35.1                   | 37.0 | 36.1 |
| Diff (±1.17)                      | -5.2                   | +0.5 | -1.7 |

| N cwt per acre<br>including<br>basal | Row spacing:<br>inches |      |      | Seed rate:<br>bushels per acre |      | Mean    | Diff.   |
|--------------------------------------|------------------------|------|------|--------------------------------|------|---------|---------|
|                                      | 7                      | 14   | 7B   | 2                              | 4    |         |         |
|                                      | (±1.06)                |      |      | (±0.83)                        |      | (±0.59) | (±1.17) |
| .65                                  | 41.9                   | 38.4 | 38.8 | 40.5                           | 38.9 | 39.7    | -1.6    |
| 1.15                                 | 37.6                   | 36.0 | 35.2 | 37.5                           | 35.0 | 36.3    | -2.5    |
| 1.65                                 | 33.8                   | 35.8 | 36.8 | 36.6                           | 34.3 | 35.4    | -2.3    |
| Mean (±0.59)                         | 37.7                   | 36.7 | 36.9 | 38.2                           | 36.1 | 37.1    | -2.1    |
|                                      |                        |      |      |                                |      |         | (±0.68) |

Mean dry matter % as harvested: 80.9

B = Every 4th row blank.