

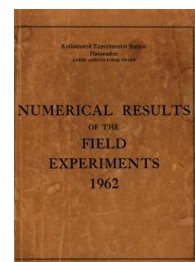
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Yields of the Field Experiments 1962

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62/R/C/7 Intensive Barley Growing - Cereals and Beans

Rothamsted Research

Rothamsted Research (1963) *62/R/C/7 Intensive Barley Growing - Cereals and Beans* ; Yields Of The Field Experiments 1962, pp 113 - 114 - DOI: <https://doi.org/10.23637/ERADOC-1-164>

62/C/7.1

INTENSIVE BARLEY GROWING EXPERIMENT

Little Knott I - 1962, the second year

For treatments etc., see "The Numerical Results of the Field Experiments" 61/C/8.

Area of each plot (acres): 0.0212. Area harvested: 0.0140.

Cultivations, etc.: Ploughed: Sept 16, 1961.

Spring beans: Seed placement drilled at 200 lb per acre:
Feb 21, 1962. Combine harvested: Sept 21. Variety: Tick 30B.

Oats: 'Nitro-Chalk' applied: Feb 23, 1962. Seed combine drilled at 4 bushels per acre: Mar 2. Sprayed with MCPA/TBA at 4 pints in 40 gallons per acre: May 24. Combine harvested: Aug 25. Variety: Condor.

Spring wheat: 'Nitro-Chalk' applied: Feb 23, 1962. Seed combine drilled at 3 bushels per acre: Mar 2. Sprayed with MCPA/TBA at 4 pints in 40 gallons per acre: May 24. Combine harvested: Sept 13. Variety: Jufy I.

Barley: 'Nitro-Chalk' applied, seed combine drilled at $2\frac{1}{2}$ bushels per acre: Feb 22, 1962. Sprayed with MCPA/TBA at 4 pints in 40 gallons per acre: May 24. Combine harvested: Aug 27. Variety: Proctor.

Winter wheat: Seed combine drilled at $2\frac{1}{2}$ bushels per acre: Oct 11, 1961. 'Nitro-Chalk' applied: Feb 23, 1962. Sprayed with MCPA/TBA at 4 pints in 40 gallons per acre: Apr 24. Combine harvested: Sept 3. Variety: Cappelle.

Note: (1) One plot (non-continuous spring wheat preceding beans), which should have received 0.45 cwt N per acre, received 0.9 by mistake.
(2) Yields were only taken for sequences 3, 6, 7, 8, 9 and 10

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

Winter wheat (9 and 10): 4.53 cwt per acre or 11.9% (7 d.f.)

Spring wheat (3, 6 and 8): 2.44 cwt per acre or 8.7% (14 d.f.)

62/C/7.2

Summary of Results

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

Winter wheat (9 and 10)

N: cwt per acre

| Crop in 1961 | None | 0.3 | 0.6 | 0.9 | Mean |
|--------------|------|------|------|------|---------|
| | | | | | (±3.20) |
| Spring wheat | 23.9 | 24.2 | 35.6 | 39.2 | 30.7 |
| Beans | 39.0 | 45.5 | 46.1 | 51.3 | 45.5 |
| Mean (±2.26) | 31.4 | 34.9 | 40.8 | 45.2 | 38.0 |

Mean dry matter % as harvested: 83.6

Spring wheat (3, 6, 8)

| Previous crop | Spring wheat | | | | | Oats | Mean |
|-----------------|--------------|------|--------------------|------|---------|---------|------|
| | None | 0.3 | 0.45* ⁺ | 0.6 | 0.9 | 0.45* | |
| N: cwt per acre | 19.3 | 21.7 | 26.2 | 29.7 | 26.6 | 33.2 | 27.9 |
| | (±1.72) | | (±0.86) | | (±1.72) | (±0.86) | |

Mean dry matter % as harvested: 73.8

Barley 7

N: cwt per acre

| None | 0.3 | 0.6 | 0.9 | Mean |
|------|------|------|------|------|
| 33.0 | 42.9 | 42.9 | 46.8 | 41.4 |

Mean dry matter % as harvested: 82.6

*mean of 8 - others mean of 2

⁺includes 1 estimated value