

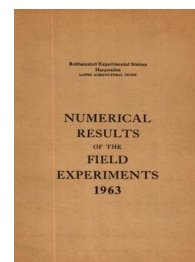
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# Yields of the Field Experiments 1963

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## 63/R/BK/A/1 Broadbalk - Wheat

### Rothamsted Research

Rothamsted Research (1964) *63/R/BK/A/1 Broadbalk - Wheat* ; Yields Of The Field Experiments 1963, pp 9 - 11 - DOI: <https://doi.org/10.23637/ERADOC-1-183>

63/A/1.1

WHEAT - BROADBALK 1963

(BK)

The 120th year

For history, treatments, etc., see 'Details of the Classical and Long Term Experiments' 1956.

Cultivations, etc.:

Cropped sections. Ground chalk applied: Sept 27, 1962. Ploughed: Sept 27 - Oct 5. Dung applied: Oct 4. Autumn fertilisers applied: Oct 23. Seed drilled at 3 bushels per acre: Nov 30. Spring fertilisers applied: Apr 24, 1963. Second dressing of nitrate of soda applied to plot 16: May 6. Sections IA and VB sprayed with mecoprop/2,4-D at 7 pints in 40 gallons per acre: May 16. Combine harvested: Sept 13. Variety: Squarehead's Master 13/4 (Rothamsted seed from Broadbalk field). Fallow section. (NA) Ploughed: Sept 27 - Oct 5, 1962: May 29, 1963: July 16.

Note: There was a heavy attack of wheat bulb fly (*Leptohylemia coarctata*) on all plots of Section II (1st after fallow). On plots 10, 11, 12 and 14 the crop failed and was not harvested.

Part of plot 19 (Section IV) - the crop was heavily infested with creeping grasses (*Holcus mollis* and *Agrostis stolonifera*), and the harvested area was modified.

Broadbalk Wilderness. Cultivations etc.:

Ungrazed meadow (north): Shrubs grubbed out: Mar 26, 1962.

Grazed meadow (centre): Grazed by sheep: Apr 22 - May 7, 1962, June 1 - 14, July 4 - 13, Aug 16 - 21, Sept 3, Nov 4 - 13.

Grass topped: May 8, June 13, July 12, Aug 19.

Woodland (south): East and west sides trimmed: July 30 - Aug 6, 1962.

63/A/1.2

Summary of ResultsGrain (at 85% dry matter): cwt per acre

| Section<br>Years<br>after<br>fallow | II   | IB   | III  | IV   | VB   | IA   |      |
|-------------------------------------|------|------|------|------|------|------|------|
|                                     | 1    | 2    | 3    | 4    | 5    | 12   | Mean |
| 2A                                  | 27.2 | 31.1 | 18.2 | 19.2 | 19.9 | 22.5 | 22.6 |
| 2B                                  | 26.8 | 28.5 | 18.2 | 16.9 | 13.9 | 25.3 | 21.0 |
| 3                                   | 11.4 | 12.6 | 10.2 | 9.9  | 10.4 | 6.3  | 10.5 |
| 5                                   | 14.2 | 10.8 | 11.5 | 13.1 | 18.2 | 11.2 | 13.2 |
| 6                                   | 14.8 | 17.7 | 13.6 | 18.6 | 16.4 | 15.2 | 16.0 |
| 7                                   | 16.2 | 22.1 | 17.7 | 20.1 | 16.3 | 22.9 | 18.6 |
| 8                                   | 16.7 | 18.1 | 20.5 | 17.1 | 25.2 | 32.3 | 19.8 |
| 9                                   | 12.7 | 19.4 | 17.8 | 18.3 | 10.6 | 19.1 | 16.1 |
| 10                                  | *    | 12.5 | 17.9 | 14.1 | 9.8  | 11.0 | 14.1 |
| 11                                  | *    | 17.1 | 10.9 | 15.2 | 7.2  | 15.8 | 13.0 |
| 12                                  | *    | 15.8 | 12.6 | 18.3 | 14.6 | 17.7 | 15.5 |
| 13                                  | 16.8 | 20.2 | 19.7 | 18.0 | 16.0 | 23.2 | 18.4 |
| 14                                  | *    | 18.3 | 15.6 | 18.5 | 15.1 | 20.1 | 17.2 |
| 15                                  | 18.6 | 17.7 | 17.0 | 14.5 | 14.5 | 21.5 | 16.8 |
| 16                                  | 15.5 | 21.7 | 19.8 | 20.4 | 19.0 | 27.6 | 19.5 |
| 17                                  | 14.3 | 10.8 | 10.8 | 11.5 | 11.3 | 9.7  | 11.8 |
| 18                                  | 14.7 | 19.2 | 20.3 | 19.2 | 19.7 | 18.6 | 18.4 |
| 19                                  | 13.6 | 19.2 | 20.5 | 14.3 | 19.3 | 20.5 | 17.3 |
| 20                                  | 13.8 | 18.0 |      |      |      | 15.1 | 15.6 |

Mean dry matter % as harvested: 77.5

\* No yields recorded

63/A/1.3

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

| Section<br>Years<br>after<br>fallow | II   | IB   | III  | IV   | VB   | IA   |      |
|-------------------------------------|------|------|------|------|------|------|------|
|                                     | 1    | 2    | 3    | 4    | 5    | 12   | Mean |
| 2A                                  | 45.5 | 36.6 | 32.4 | 26.2 | 23.9 | 27.8 | 33.2 |
| 2B                                  | 46.4 | 38.5 | 35.9 | 30.0 | 35.6 | 24.1 | 36.6 |
| 3                                   | 20.3 | 17.2 | 13.9 | 13.1 | 10.5 | 7.0  | 14.8 |
| 5                                   | 30.0 | 18.8 | 18.0 | 17.4 | 23.8 | 9.5  | 21.0 |
| 6                                   | 29.4 | 29.2 | 26.9 | 29.4 | 23.3 | 16.8 | 27.3 |
| 7                                   | 43.4 | 38.1 | 37.2 | 36.0 | 28.4 | 27.6 | 36.9 |
| 8                                   | 45.2 | 39.2 | 43.7 | 34.7 | 35.9 | 44.6 | 40.5 |
| 9                                   | 36.8 | 35.8 | 31.6 | 33.9 | 23.0 | 26.9 | 32.5 |
| 10                                  | *    | 21.5 | 24.6 | 21.0 | 14.5 | 20.2 | 21.1 |
| 11                                  | *    | 26.1 | 18.6 | 25.4 | 8.4  | 20.5 | 20.4 |
| 12                                  | *    | 23.6 | 22.2 | 29.4 | 16.9 | 22.7 | 23.8 |
| 13                                  | 42.1 | 34.9 | 34.5 | 34.0 | 22.7 | 29.6 | 34.5 |
| 14                                  | *    | 28.8 | 26.1 | 26.9 | 18.6 | 25.1 | 25.5 |
| 15                                  | 37.7 | 27.9 | 26.6 | 26.5 | 18.0 | 24.8 | 28.2 |
| 16                                  | 45.2 | 44.5 | 39.7 | 45.2 | 33.5 | 41.3 | 42.2 |
| 17                                  | 25.7 | 19.0 | 19.9 | 19.9 | 14.9 | 11.6 | 20.1 |
| 18                                  | 33.7 | 32.4 | 33.6 | 37.6 | 30.0 | 22.3 | 33.3 |
| 19                                  | 28.1 | 25.4 | 24.0 | 24.8 | 25.8 | 22.6 | 25.5 |
| 20                                  | 24.5 | 26.7 |      |      |      | 21.6 | 24.8 |

Mean dry matter % as harvested: 89.3

\* No yields recorded