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Report 1921-22 With the Supplement to the Guide to the Experimental Plots Containing the Yields per Acre Etc.



[Full Table of Content](#)

Expenditure and Cash Returns

Rothamsted Research

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marked, especially where no dung was applied, and formed one of the most striking demonstrations of the year. Some of the figures were :—

| | Barley bush. | Potatoes (KERR'S PINK) tons per acre | |
|-----------------|-----------------|---|------|
| | | No Dung | Dung |
| Complete manure | 32.6 | 8.3 | 9.5 |
| No potash . . . | 27.0 | 2.5 | 8.0 |

The Barnfield mangolds were in May badly attacked by a small beetle, *Atomaria linearis*, which seriously affected all plots except those receiving rape cake.

EXPENDITURE AND CASH RETURNS PER ACRE.

The classical fields of the farm are used continuously for their appropriate experiments, but the remaining fields are not. After an experiment is completed the land goes back to ordinary cultivation so as to restore uniformity of conditions as far as possible. Usually about 170 acres are thus farmed. The accounts for this farmed land are kept quite separate from those for the experimental areas, and they show approximately what an ordinary farmer might spend and receive.

The figures are worked out by precisely the same method as in the last report. They include only money paid out or brought in; there are no allowances for interest or farmers' remuneration beyond £175 per annum, which is spread over 178½ acres; also no allowance is made for residual manurial values. Depreciation of horses and dead stock is, however, included.

| | EXPENDITURE PER ACRE. | | CASH RETURNS PER ACRE. | | |
|--------------------|--------------------------|--------------------------|---------------------------|--------------------------|--------------------------|
| | Oct. 1920- Sept. 1921 | Oct. 1921- Sept. 1922 | Oct. 1919- Sept. 1921* | Oct. 1920- Sept. 1921 | Oct. 1921- Sept. 1922 |
| | £ s. | £ s. | £ s. | £ s. | £ s. |
| Wheat | 13 5 | 11 4 | 20 6 | 13 3 | 6 12 |
| Oats | 16 12 | 10 10 | 18 12 | 14 4 | 11 11 |
| Barley | 19 19 | 12 16 | 18 1 | 15 3 | 6 1 |
| Roots | 38 17 | 31 5 | | 21 8 | 17 13 |
| Potatoes | 47 11 | — | 26 12 | 17 16 | — |
| Clover | 12 1 | 5 9† | | 8 16 | 3 6 |
| Grass: | | | | | |
| Temporary hay | 6 7 | | 8 13 | 4 13 | |
| Permanent hay | | | 4 6 | | |

| | CASH BALANCE (+) OR DEFICIT (—) PER ACRE. | | |
|--------------------------------|---|---------------------------|---------------------------|
| | Oct. 1919-Sept. 1920 | Oct. 1920-Sept. 1921 | Oct. 1921-Sept. 1922 |
| | £ s. | £ s. | £ s. |
| Wheat | + 5 5 | — 2 | — 4 12 |
| Oats | + 4 0 | — 8 | + 1 1 |
| Barley | + . 5 | — 4 16 | — 6 15 |
| Roots | | — 17 9 | — 13 12 |
| Potatoes | — 31 4 | — 29 15 | — |
| Clover | | — 3 5 | — 2 3 |
| Grass: Permanent hay | + . 16 | — 1 14 | — |
| Temporary hay | — 1 11 | | — |
| Total farming loss | { Profit } £ 410 { (176 acres) } | £ 960 - 16 (173 acres) | £ 308 - 11 (140 acres) |

* As stated in the 1918-20 Report, the figures there given include the estimated value of unsold material. The sales are now complete and the final figures are given here.
 † Carried on from 1921: see p. 56.

From 1920 onwards the financial results are deplorable, and they show clearly why many of the arable farmers to-day are in their present position.