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Yields of the Field Experiments 1959

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59/R/A/5 Park Grass - Hay

Rothamsted Research

Rothamsted Research (1960) *59/R/A/5 Park Grass - Hay* ; Yields Of The Field Experiments 1959, pp 15 - 16 - DOI: <https://doi.org/10.23637/ERADOC-1-179>

59/A/7.1

BARLEY - EXHAUSTION LAND HOOSFIELD 1959

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

In 1959 the whole experiment was sown to barley again.

Combine harvesting 1959:- One central cut was taken down the length of each plot except plots 5 and 9, 90 links at the end of plots 2, 4, 6, 8 and 10 being discarded; parts of plots 5 and 9 were harvested separately as microplots and the remainder discarded.

The following should be added to the details for 1958:

Combine harvesting 1958:- The barley crop on the western halves was combine harvested, one central cut being taken from plots 4, 6, 8 and 19, and from plot 2, two cuts separately, one on the north side and the other on the south side.

Basal dressing: 0.5 cwt N per acre as 'Nitro-Shell'.

Cultivations, etc.: Ploughed: Feb 16, 1959. 'Nitro-Shell' applied, seed drilled at $2\frac{3}{4}$ bushels per acre: Mar 17. Sprayed with CMPP at 4 pints in 40 gallons per acre: May 27. Plots 5 and 9 cut by hand: Aug 5. Remaining plots combine harvested: Aug 18. Variety: Plumage Archer.

59/A/7.2

Summary of Results

Barley

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

Plots not cross cropped in 1957 and 1958 and combined harvested in 1959

Plot. Manuring to potatoes 1876 - 1901*	Grain	Straw
2 Unmanured after dung 1876 - 81	21.1	13.5
4 Dung	28.5	17.7
6 Nitrate of soda	19.0	11.1
8 Nitrate of soda and complete minerals	25.3	14.9
10 Complete minerals	23.5	14.9

Plots cross cropped in 1957 and 1958 and combined harvested in 1959

Plot. Manuring to potatoes 1876 - 1901*	Grain	Straw
1 Unmanured	26.3	16.0
3 Dung	32.0	20.5
7 Ammonium salts and complete minerals	29.9	19.9
Mean dry matter % of combine harvested plots	87.2	88.2

*For certain changes see history.