

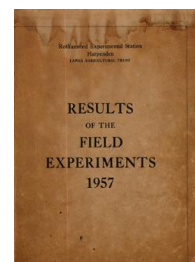
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Yields of the Field Experiments 1957

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57/R/A/6 Hoosfield Exhaustion Land - Barley

Rothamsted Research

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57/4/6

BARLEY - EXHAUSTION LAND HOOSFIELD 1957

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

In 1957 the eastern halves of all strips - plots 1, 3, 5, 7, 9 - were cropped separately under a modified scheme of multiple cropping to test levels of P and K manuring. The yields from these plots will be given in the 1958 report.

On the western halves - plots 2, 4, 6, 8, 10 - the land was bare-fallowed except for a 90 link length on each plot which was sown to barley.

Cultivations, etc.:

Cropped section. Ploughed: Sept 26 - 27, 1956. Seed drilled at $2\frac{3}{4}$ bushels per acre: Mar 21, 1957. Harvested: Aug 21. Variety: Plumage Archer.

Fallowed section. Ploughed: Sept 26 - 27, 1956, June 26, 1957 and Aug 21. Sprayed with TCA at 20 lb in 80 gallons per acre: May 4 and again on June 7.

Note. The grain was damaged by mice during storage, particularly that from plot 2.

Summary of Results

Manuring to potatoes 1876 - 1901*	Yields (at 85% dry matter): cwt per acre	
	Grain	Straw
2 Unmanured after dung 1876 - 81	8.7	7.3
4 Dung	20.0	9.4
6 Nitrate of soda	17.5	6.8
8 Nitrate of soda and complete minerals	17.6	10.2
10 Complete minerals	25.6	14.3
Mean dry matter % as threshed:	83.4	83.8

*For certain changes see history.