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ROTHAMSTED RESEARCH

Yields of the Field Experiments 1955

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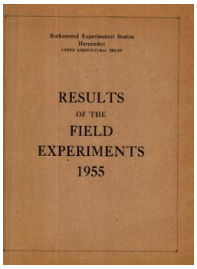

55/R/A/2 Hoosfield - Barley

Rothamsted Research

Rothamsted Research (1956) *55/R/A/2 Hoosfield - Barley ;* Yields Of The Field Experiments 1955, pp 7 - 8 **- DOI: https://doi.org/10.23637/ERADOC-1-175**

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55/A/2.1

BARLEY - HOOSFIELD 1955

The 104th year

For history, details of treatments, etc., see "Results of the Field Experiments" 1939-47, Vol.I, Section A/2.

In the autumn of 1954 a system of chalking was started as follows:- strips 3 and 4, including plots 5O and 5A, receive a dressing of 5 tons of calcium carbonate per acre as ground chalk in 1954-55 only. Plots receiving ammonium sulphate or castor meal have a compensating dressing of ground chalk at the following rates: 100 lb calcium carbonate for each 14 lb of N applied as ammonium sulphate; 50 lb calcium carbonate for each 14 lb of N given as castor meal. The compensating dressings, at five times the annual rate, are given once every five years commencing 1955.

Cultivations, etc.: Ploughed: Sept 27, 1954. Part of ground chalk applied to strips 3 and 4: Nov 6-18. Dung applied: Nov 15. Ploughed: Dec 27. Remainder of ground chalk applied to strips 3 and 4, and compensating dressing applied to series A and C: Mar 17, 1955. Fertilizers applied: Apr 5. Seed drilled at 3 bushels per acre: Apr 7. Sprayed with 8 lb D.N.C. (active substance) in 80 gallons per acre: May 24. Cut and discarded areas of plots in series N, AA, AAS, C and plots 5A and 5O, leaving 16 rows per plot: July 25. Harvested: Aug 18. Variety: Plumage Archer.

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55/A/2.2

Summary of Results

Plot	Grain (at 85% dry matter): cwt per acre	Straw (at 85% dry matter): cwt per acre
1 0	4.4	4.5
2 0	9.1	7.6
3 0	4.2	4.8
4 0	7.3	6.9
5 0	4.0	4.8
1 A	7.0	7.9
2 A	21.5	19.4
3 A	8.4	10.1
4 A	16.0	15.0
5 A	19.0	19.9
1 AA	9.9	10.2
2 AA	25.0	23.8
3 AA	7.6	8.5
4 AA	22.4	22.6
1 AAS	10.5	10.6
2 AAS	25.0	22.6
3 AAS	15.6	16.9
4 AAS	26.7	24.3
1 C	15.2	14.5
2 C	20.1	18.1
3 C	11.8	10.5
4 C	17.7	16.0
7 - 1	10.1	9.2
7 - 2	27.7	25.4
6 - 1	4.6	5.0
6 - 2	8.0	7.5
1 N	10.6	11.1
2 N	17.1	14.5
Mean dry matter %:	84.9	84.3

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