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Yields of the Field Experiments 1973

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73/R/EX/4 - Exhaustion Land - Barley

Rothamsted Research

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73/R/EX/4

EXHAUSTION LAND

Object: To study the residual effects of manures, applied 1856-1901, on the yield of continuous barley - Hoosfield.

The 118th year, barley.

For previous years see 'Details' 1967, 68/A/7 and 69-72/R/EX/4.

Area harvested: 0.03000.

Treatments: Fertiliser and farmyard manure 1876-1901 (now all given 87.5 kg N combine drilled):-

PLOTFERT(01)

Plot 1 None	1-
Plot 2 None	2-
Plot 3 D	3D
Plot 4 D	4D
Plot 5 N	5N
Plot 6 N*	6N*
Plot 7 N P K Na Mg	7NMIN
Plot 8 N* P K Na Mg	8N*MIN
Plot 9 P	9P
Plot 10 P K Na Mg	10MIN

N - Ammonium salts to supply 96 kg N
N* - Nitrate of soda to supply 96 kg N
P - Superphosphate to supply 34 kg P
K - Sulphate of potash to supply 137 kg K
Na - Sulphate of soda to supply 16 kg Na
Mg - Sulphate of magnesia to supply 11 kg Mg
D - Farmyard manure at 35 tonnes
MIN - P K Na Mg

NOTE: For a fuller record of treatments see 'Details' 1967 etc.

Seed: Julia, dressed with ethirimol, sown at 160 kg.

Cultivations, etc.:- Ploughed: 12 Sept, 1972. Seed sown: 9 Mar, 1973.
Sprayed with dicamba, mecoprop and MCPA ('Tetralix Plus' at 7.0 l in 220 l): 18 May. Combine harvested: 9 Aug.

73/R/EX/4

TABLE OF MEANS

PLOT/FERT(G1)	TONNES/HECTARE	
	GRAIN	STRAW
1-	1.29	2.17
2-	1.27	2.86
3D	4.91	5.99
4D	4.85	5.65
5N	1.22	1.92
6N*	1.16	**
7MIN	4.25	5.49
8N*MIN	4.20	5.61
9P	4.00	5.22
10MIN	4.29	5.21
Mean D.M. %	80.7	94.2

** Not recorded.