ROTHAMSTED RESEARCH

Yields of the Field Experiments 1974

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74/R/EX/4 Exhaustion Land - Barley

74/R/EX/4 Exhaustion Land - Barley, Rothamsted Research (1975) Yields Of The Field Experiments 1974, pp 25 - 26 **- DOI: https://doi.org/10.23637/ERADOC-1-119**

74/R/EX/4

EXHAUSTION LAND

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

The 119th year, barley.

For previous years see 'Details' 1967, 68/A/7 and 69-73/R/EX/4.

Area harvested: 0.03000.

Treatments: Fertiliser and farmyard manure 1876-1901 (now all given 88 kg N):-

	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 - 96 kg N as ammonium salts
N* - 96 kg N as nitrate of soda
P - 34 kg P as superphosphate
K - 137 kg K as sulphate of potash
Na - 16 kg Na as sulphate of soda
Mg - 11 kg Mg as sulphate of magnesia
D - Farmyard manure at 35 tonnes
MIN - P K Na Mg

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

Basal applications: Manures: 88 kg N as 'Nitro-Chalk', combine drilled. Weedkillers: 4.5 kg aminotriazole + 4.1 kg ammonium thiocyanate in 220 l in autumn. Dicamba, mecoprop and MCPA ('Tetralex Plus' at 7.0 l in 220 l) in spring.

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

Cultivations, etc.:- Autumn weedkiller applied: 12 Sept, 1973. Ploughed: 4 Oct. Seed sown: 26 Mar, 1974. Spring weedkiller applied: 21 May. Harvested: 20 Aug.

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74/R/EX/4

TABLE OF MEANS

	TONNES/HECTARE	
	GRAIN	STRAW
PLOTFERT(01)		
1-	1.65	0.92
2-	1.74	1.66
3D	4.48	1.80
4D	4.46	1.84
5N	1.91	1.14
6N*	1.39	1.52
7NMIN	4.12	1.61
8N*MIN	3.61	1.88
9P	3.02	1.19
10MIN	4.71	2.30
Mean D.M. %	78.1	89.8

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