

Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1974

[Full Table of Content](#)



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 aminotriszole + 4.1 kg ammonium thiocyanate in 220 l in autumn. Dicamba, mecoprop and MCPA ('Tetrallex 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.

74/R/EX/4

TABLE OF MEANS

PLOT/FERT(01)	TONNES/HECTARE	
	GRAIN	STRAW
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
9F	3.02	1.19
10MIN	4.71	2.30
Mean D.M. %	78.1	89.8