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# **Yields of the Field Experiments 1984**

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## **84/R/EX/4 Exhaustion Land - S. Barley**

### **Rothamsted Research**

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84/R/EX/4

EXHAUSTION LAND

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

The 129th year, s. barley.

For previous years see 'Details' 1967, 1973 and 74-83/R/EX/4.

Treatments: All combinations of:-

Whole plots

1. PLOTFERT(01) Plot numbers and manuring 1876-1901:

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

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

Sub plots

2. N Nitrogen fertilizer (kg N) as 'Nitro-Chalk' (basal until 1975, on a cyclic system since 1976):

0  
48  
96  
144

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

Basal applications: Weedkillers: 3, 6-dichloropicolinic acid at 0.07 kg with bromoxynil at 0.34 kg and mecoprop (as 'CMPP' at 4.2 l) in 500 l. Fungicide: Tridemorph at 0.52 kg in 250 l.

Seed: Triumph, seed dressed triadimenol and fuberidazole sown at 160 kg.

Cultivations, etc.: Ploughed: 12 Sept, 1983. Spring-tine cultivated: 8 Mar, 1984. Seed sown: 10 Mar. N treatments applied: 19 Apr. Weedkillers applied: 25 May. Fungicide applied: 6 June. Combine harvested: 17 Aug.

NOTE: PLOTFERT(01) 2- was severely grazed by hares, no yields.

84/R/EX/4

GRAIN TONNES/HECTARE

\*\*\*\*\* TABLES OF MEANS \*\*\*\*\*

N	0	48	96	144	MEAN
PLOTFERT(01)					
1-	0.78	0.54	0.79	0.82	0.73
2-	*	*	*	*	*
3D	2.09	2.99	3.07	2.95	2.78
4D	1.22	1.65	2.34	2.65	1.96
5N	0.90	1.19	1.13	1.23	1.11
6N*	0.84	0.48	0.75	1.09	0.79
7NMIN	1.77	2.17	2.26	2.37	2.14
8N*MIN	1.38	1.69	1.69	2.10	1.71
9P	2.34	2.26	1.64	2.46	2.17
10MIN	1.82	2.16	2.59	2.82	2.35
MEAN	1.46	1.68	1.81	2.05	1.75

GRAIN MEAN DM% 83.0

STRAW TONNES/HECTARE

\*\*\*\*\* TABLES OF MEANS \*\*\*\*\*

N	0	48	96	144	MEAN
PLOTFERT(01)					
1-	0.34	0.21	0.27	0.41	0.31
2-	*	*	*	*	*
3D	0.54	1.16	1.64	1.44	1.20
4D	0.41	0.53	0.86	1.28	0.77
5N	0.28	0.41	0.41	0.41	0.38
6N*	0.35	0.14	0.21	0.34	0.26
7NMIN	0.48	0.96	1.11	1.30	0.96
8N*MIN	0.48	0.62	0.67	0.82	0.65
9P	0.62	0.96	0.89	1.42	0.97
10MIN	0.55	1.08	1.47	1.32	1.10
MEAN	0.45	0.67	0.84	0.97	0.73

STRAW MEAN DM% 84.7

SUB PLOT AREA HARVESTED 0.00728