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# Collection of Plans for the Rothamsted Long-term Liming Experiment

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## Rothamsted Long-term Liming Experiment 1981

### Rothamsted Research

Rothamsted Research (1962-1996) *Rothamsted Long-term Liming Experiment 1981* ; Collection Of Plans For The Rothamsted Long-Term Liming Experiment, pp 15 - 15

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ROTHAMSTED LONG TERM LIMING

S. ONYS

SPRINGS I 20th YEAR 1981

Sponsors: S. Me Grath, D.P. Stribley

PH	01	02	03	04	05	06	07	08
4.6	Mg (P)P1 (-)K	Mg (-)P1 (K)K	Mg H (-)K	Mg L (-)K	Mg O (P)P2 (K)K	Mg M (-)K	Mg L (-)K	Mg H (P)P1 (-)K
4.7	Mg (-)P1 (K)K	Mg (-)P1 (K)K	Mg H (-)K	Mg L (-)K	Mg O (P)P2 (K)K	Mg M (-)K	Mg L (-)K	Mg H (P)P1 (-)K
7.5	Mg H (-)K	Mg (-)P1 (K)K	Mg H (-)K	Mg L (-)K	Mg O (P)P2 (K)K	Mg M (-)K	Mg L (-)K	Mg H (P)P1 (-)K
5.1	Mg L (-)K	Mg (-)P1 (K)K	Mg H (-)K	Mg L (-)K	Mg O (P)P2 (K)K	Mg M (-)K	Mg L (-)K	Mg H (P)P1 (-)K
5.2	Mg L (-)K	Mg (-)P1 (K)K	Mg H (-)K	Mg L (-)K	Mg O (P)P2 (K)K	Mg M (-)K	Mg L (-)K	Mg H (P)P1 (-)K
5.5	Mg (-)P1 (K)K	Mg (-)P1 (K)K	Mg H (-)K	Mg L (-)K	Mg O (P)P2 (K)K	Mg M (-)K	Mg L (-)K	Mg H (P)P1 (-)K
5.9	Mg L (-)K	Mg (-)P1 (K)K	Mg H (-)K	Mg L (-)K	Mg O (P)P2 (K)K	Mg M (-)K	Mg L (-)K	Mg H (P)P1 (-)K
6.2	Mg L (-)K	Mg (-)P1 (K)K	Mg H (-)K	Mg L (-)K	Mg O (P)P2 (K)K	Mg M (-)K	Mg L (-)K	Mg H (P)P1 (-)K
6.7	Mg L (-)K	Mg (-)P1 (K)K	Mg H (-)K	Mg L (-)K	Mg O (P)P2 (K)K	Mg M (-)K	Mg L (-)K	Mg H (P)P1 (-)K
6.8	Mg L (-)K	Mg (-)P1 (K)K	Mg H (-)K	Mg L (-)K	Mg O (P)P2 (K)K	Mg M (-)K	Mg L (-)K	Mg H (P)P1 (-)K
6.9	Mg L (-)K	Mg (-)P1 (K)K	Mg H (-)K	Mg L (-)K	Mg O (P)P2 (K)K	Mg M (-)K	Mg L (-)K	Mg H (P)P1 (-)K
6.3	Mg L (-)K	Mg (-)P1 (K)K	Mg H (-)K	Mg L (-)K	Mg O (P)P2 (K)K	Mg M (-)K	Mg L (-)K	Mg H (P)P1 (-)K
6.4	Mg L (-)K	Mg (-)P1 (K)K	Mg H (-)K	Mg L (-)K	Mg O (P)P2 (K)K	Mg M (-)K	Mg L (-)K	Mg H (P)P1 (-)K
6.5	Mg L (-)K	Mg (-)P1 (K)K	Mg H (-)K	Mg L (-)K	Mg O (P)P2 (K)K	Mg M (-)K	Mg L (-)K	Mg H (P)P1 (-)K
6.6	Mg L (-)K	Mg (-)P1 (K)K	Mg H (-)K	Mg L (-)K	Mg O (P)P2 (K)K	Mg M (-)K	Mg L (-)K	Mg H (P)P1 (-)K
6.7	Mg L (-)K	Mg (-)P1 (K)K	Mg H (-)K	Mg L (-)K	Mg O (P)P2 (K)K	Mg M (-)K	Mg L (-)K	Mg H (P)P1 (-)K
6.8	Mg L (-)K	Mg (-)P1 (K)K	Mg H (-)K	Mg L (-)K	Mg O (P)P2 (K)K	Mg M (-)K	Mg L (-)K	Mg H (P)P1 (-)K
6.9	Mg L (-)K	Mg (-)P1 (K)K	Mg H (-)K	Mg L (-)K	Mg O (P)P2 (K)K	Mg M (-)K	Mg L (-)K	Mg H (P)P1 (-)K

**P & K TREATMENTS**

	UNTIL 1978	FROM 1981	LIME TREATMENTS (Total 1982-1978 t ha <sup>-1</sup> )
(-) (-)K	P	K	0
(P)P(-)K	P	K	7
(-)P1(K)K	P	K	15
(P)P2(K)K	P	K	30

P & K until 1978 cumulative rates depended on error  
From 1981  
P1, P2 25, 75 kg P ha<sup>-1</sup>  
K 120 kg K ha<sup>-1</sup>

**BASAL MINERALISING**

N 'Nitrochalk' at 80 kg N ha<sup>-1</sup>  
Mg Epsom salts at 120 kg Mg ha<sup>-1</sup>

**VARIETY** Peniarth sown at 168 t/ha (189 t/ha) on 13 April

**DESIGN** 2 blocks of 16 plots

**PLOT AREA** 21' x 66' = 0.029 acre (0.0117 ha)  
Harvested 914" x 66" = 0.013 acre (0.0052 ha)

**PLOT ARRANGEMENT**

3 blocks of 16 plots each  
2 tillage rows  
12 rows  
Sampling area 7' wide  
Sampling area W side of each plot

**Notes:**  
No headkiller or pesticides without Sponsors consent  
All operations by farm.