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ROTHAMSTED
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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

81/R/CS/10

ROTHAMSTED LONG TERM LIMEING

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 (-)P1 (K)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 (-)P1 (K)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 (-)P1 (K)K	Mg O (P)P2 (K)K	Mg M (-)K	Mg L (-)K	Mg H (P)P1 (-)K
4.6	Mg (-)P1 (K)K	Mg (-)P1 (K)K	Mg H (-)K	Mg L (-)P1 (K)K	Mg O (P)P2 (K)K	Mg M (-)K	Mg L (-)K	Mg H (P)P1 (-)K
6.0	Mg M (-)K	Mg (-)P1 (K)K	Mg H (-)K	Mg L (-)P1 (K)K	Mg O (P)P2 (K)K	Mg M (-)K	Mg L (-)K	Mg H (P)P1 (-)K
5.6	Mg L (-)K	Mg (-)P1 (K)K	Mg H (-)K	Mg L (-)P1 (K)K	Mg O (P)P2 (K)K	Mg M (-)K	Mg L (-)K	Mg H (P)P1 (-)K
7.6	Mg H (P)P1 (-)K	Mg (-)P1 (K)K	Mg H (-)K	Mg L (-)P1 (K)K	Mg O (P)P2 (K)K	Mg M (-)K	Mg L (-)K	Mg H (P)P1 (-)K
5.9	Mg M (-)P1 (K)K	Mg O (P)P2 (K)K	Mg H (-)K	Mg L (-)P1 (K)K	Mg O (P)P2 (K)K	Mg M (-)K	Mg L (-)K	Mg H (P)P1 (-)K
5.5	Mg H (-)K	Mg (-)P1 (K)K	Mg H (-)K	Mg L (-)P1 (K)K	Mg O (P)P2 (K)K	Mg M (-)K	Mg L (-)K	Mg H (P)P1 (-)K
5.2	Mg L (-)P1 (K)K	Mg (-)P1 (K)K	Mg H (-)K	Mg L (-)P1 (K)K	Mg O (P)P2 (K)K	Mg M (-)K	Mg L (-)K	Mg H (P)P1 (-)K
6.2	Mg M (-)P1 (K)K	Mg O (P)P2 (K)K	Mg H (-)K	Mg L (-)P1 (K)K	Mg O (P)P2 (K)K	Mg M (-)K	Mg L (-)K	Mg H (P)P1 (-)K
7.4	Mg (-)P1 (K)K	Mg (-)P1 (K)K	Mg H (-)K	Mg L (-)P1 (K)K	Mg O (P)P2 (K)K	Mg M (-)K	Mg L (-)K	Mg H (P)P1 (-)K
7.4	Mg (-)P1 (K)K	Mg (-)P1 (K)K	Mg H (-)K	Mg L (-)P1 (K)K	Mg O (P)P2 (K)K	Mg M (-)K	Mg L (-)K	Mg H (P)P1 (-)K
6.7	Mg M (-)P1 (K)K	Mg O (P)P2 (K)K	Mg H (-)K	Mg L (-)P1 (K)K	Mg O (P)P2 (K)K	Mg M (-)K	Mg L (-)K	Mg H (P)P1 (-)K
5.8	Mg H (P)P1 (-)K	Mg (-)P1 (K)K	Mg H (-)K	Mg L (-)P1 (K)K	Mg O (P)P2 (K)K	Mg M (-)K	Mg L (-)K	Mg H (P)P1 (-)K
5.8	Mg H (P)P1 (-)K	Mg (-)P1 (K)K	Mg H (-)K	Mg L (-)P1 (K)K	Mg O (P)P2 (K)K	Mg M (-)K	Mg L (-)K	Mg H (P)P1 (-)K
5.8	Mg H (P)P1 (-)K	Mg (-)P1 (K)K	Mg H (-)K	Mg L (-)P1 (K)K	Mg O (P)P2 (K)K	Mg M (-)K	Mg L (-)K	Mg H (P)P1 (-)K
5.8	Mg H (P)P1 (-)K	Mg (-)P1 (K)K	Mg H (-)K	Mg L (-)P1 (K)K	Mg O (P)P2 (K)K	Mg M (-)K	Mg L (-)K	Mg H (P)P1 (-)K
5.8	Mg H (P)P1 (-)K	Mg (-)P1 (K)K	Mg H (-)K	Mg L (-)P1 (K)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 ⁻¹)
(-) - (-)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⁻¹
K 120 kg K ha⁻¹

BASAL MINERALISING

N 'Nitrochalk' at 80 kg N ha⁻¹
Mg Epsom salts at 120 kg Mg ha⁻¹

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 16 3
13 18 3
14 19 3

2' tillage strip
sampling 1 inch wide
7'

Sampling over W side of each plot

No No-till or pesticides without Sponsors consent
All operations by Farm.