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

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## Rothamsted Long-term Liming Experiment 1977

### Rothamsted Research

Rothamsted Research (1962-1996) *Rothamsted Long-term Liming Experiment 1977* ; Collection Of Plans For The Rothamsted Long-Term Liming Experiment, pp 13 - 13

Rathmasted LONG TERM LIMING Spring Oats SAWYERS I 16th Year 1977 21  
 # revised. Includes Mg treatments Sponsor: J. Bolton

77/R/CS/10

	01	02	03	04	05	06	07	08
PH	4.5	4.3	6.5	5.0	4.4	5.1	5.1	6.7
Mg	09	10	11	12	13	14	15	16
Mg	M	O	L	L	M	H	H	M
Mg	-K	-	PK	-K	PK	-K	PK	-
PH	5.5	4.3	5.0	4.8	5.6	6.5	6.5	6.0
Mg	17	18	19	20	21	22	23	24
Mg	M	M	M	O	M	L	O	L
Mg	-K	PK	-	P	P	-K	PK	-
PH	5.5	5.4	5.7	4.5	5.4	4.9	4.6	5.1
Mg	25	26	27	28	29	30	31	32
Mg	L	O	H	H	O	L	H	H
Mg	PK	-	-K	PK	-K	-	P	-
PH	5.0	4.4	6.6	6.5	4.2	4.7	6.6	6.7

252' ← (top of plot area)  
 18" (width of plot area)  
 168' (width of plot area)  
 21' (width of plot area)  
 60' (width of plot area)  
 28'6" (width of plot area)  
 3' (width of plot area)  
 3' (width of plot area)  
 3' (width of plot area)  
 Blank rows (bottom of plot area)

TREATMENTS per acre (hectare)

Whole Plots

O.L.M.H None, 2,4,8 tons (-5,10,20 tonnes)  
 CaCO<sub>3</sub> as ground chalk (1962-63)

PH PH of soil sample taken Jan 1975

P 0.5cut (63 kg) P<sub>2</sub>O<sub>5</sub> as superphosphate } Broadcast

K 1.0cut (125 kg) K<sub>2</sub>O as muriate of potash } in seedbed

Half Plots

- Mg None, 100 lb (112 kg) Mg, as Epsom salts

Note: P, K, Mg treatments cumulative (Mg in 1974 & 76)

Basal manuring, per acre (hectare)

SFP 'Nitro-Chalk' only @ 280 lb (314 kg)

Variety: Marod at 180 lb/acre (202 kg/ha)  
 Sown 4/4/77

Design: 2 blocks of 16 plots split into 2

Plot area: 21' x 60' = 0.029 acre (0.0117 ha)

Sub-plot harvested:  
 9'4" x 28'6" = 0.0061 acre (0.00246 ha)

Previous Cropping

1962-64 Spr. beans, 1965-67 barley, 1968 potato  
 1969 fallow, 1970-73 barley 1974 potatoes,  
 1975 oats, 1976 oilseed rape