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

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## Rothamsted Long-term Liming Experiment 1971

### Rothamsted Research

Rothamsted Research (1962-1996) *Rothamsted Long-term Liming Experiment 1971* ; Collection Of Plans For The Rothamsted Long-Term Liming Experiment, pp 7 - 7

Rotamsted LONG TERM LIMING

Barley 10th year

SAWYERS I 1971

Sponsors: J Bolton, D.B. Slope

71/R/CS/10

01	02	03	04	05	06	07	08
O	O	H	L	O	M	L	H
PK	+K	o	P <sup>o</sup>	+PK	o	o	P <sup>o</sup>
PH 4.5	4.6	7.7	4.8	4.4	5.2	5.2	7.2
09	10	11	12	13	14	15	16
M	O	L	L	M	H	H	M
OK	+O	PK	OK	PK	OK	PK	P <sup>o</sup>
PH 6.2	4.3	5.6	5.0	6.1	7.5	7.3	6.3
17	18	19	20	21	22	23	24
M	M	M	O	M	L	O	L
OK	PK	-	+P	P <sup>o</sup>	OK	+PK	P <sup>o</sup>
PH 6.5	6.1	6.2	4.6	5.8	5.3	4.7	5.5
25	26	27	28	29	30	31	32
L	+O	H	H	O	L	H	H
PK	-	OK	PK	+K	o	P <sup>o</sup>	o
PH 5.4	4.6	7.6	7.3	4.4	5.1	7.2	7.3

252'

168'

No paths

21'

Blank rows

60'

Paths 4'

N

TREATMENTS per acre (hectare)

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

PH pH of soil samples taken 28 Sep 1970

In Seedbed - applied broadcast

P 0.5 cwt (63kg) P<sub>2</sub>O<sub>5</sub> as superphosphate  
K 1.0 cwt (125kg) K<sub>2</sub>O as muriate of potash

Basal manuring, per acre (hectare)

0.75 cwt (94kg) N as 'Nitro-chalk' 21 combine drilled.

Variety: Tullia

Sown at 140lb per acre (157 kg/ha) on 10th March

Design: 2 blocks of 16 plots

Plot area: 21' x 60' = 0.0289 acre (0.012 ha)

Harvested: 9'4" x 60' = 0.0129 acre (0.0052 ha)

Previous crops: Fallow 1969, Barley 1970