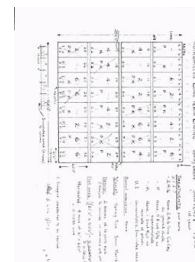


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Collection of Plans for the Rothamsted Long-term Liming Experiment

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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

Rothamsted LONG TERM LIMING

Spring Oats

SAVYERS I 16th Year 1977 21
Sponsor: J. Bolton

revised. Includes Mg treatments

77/R/CS/10

	01	02	03	04	05	06	07	08
Lime	Mg	Mg	Mg	Mg	Mg	Mg	Mg	Mg
K ₂ O	P	K	H	L	PK	M	L	H
PH	4.5	4.3	6.5	5.0	4.4	5.1	5.1	6.7
09	Mg	10	11	12	13	14	15	16
Mg	M	O	L	L	M	H	H	M
PK	K	Mg	PK	K	PK	K	PK	P
PH	5.5	4.3	5.0	4.8	5.6	6.5	6.5	6.0
17	M	18	19	20	21	22	23	24
Mg	M	Mg	Mg	O	M	L	O	Mg
PK	K	PK	M	P	P	K	PK	P
PH	5.5	5.4	5.7	4.5	5.4	4.9	4.6	5.1
25	L	26	27	28	29	30	31	32
Mg	PK	O	H	H	O	L	H	H
PH	5.0	4.4	6.6	6.5	4.2	4.7	6.6	6.7

TREATMENTS per acre (hectare)

Whole Plots

O.L.M.H

None, 2.4, 8 tons (-5, 10, 20 tonnes)
CaCO₃ as ground chalk (1962-63)

PH

PH of soil sample taken Jan 1975

P

0.5cwt (63 kg) P₂O₅

as superphosphate

K

1.0cwt (125 kg) K₂O

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: Marne 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