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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 SAWYERS I 16th Year 1977 21

revised. Includes Mg treatments

Sponsor: J. Bolton

Lime	O1	O2	O3	O4	O5	O6	O7	O8
Mg	Mg	Mg	Mg	H	H	M	L	H
O	O	O	H	L	O	M	L	P
P	P	P	K	-	P	PK	-	-
K ₂ O	-	-	-	-	Mg	Mg	-	-
pH	4.5	4.3	6.5	5.0	4.4	5.1	5.1	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 of soil sample taken Jan 1975
0.5 cwt (63 kg) P₂O₅
as superphosphate } Broadcast
1.0 cwt (125 kg) K₂O
as muriate of potash } in seedbed

pH P K
- Mg
- Mg
M O L L M H H M
- K - PK - K - PK - K - PK - P -
252 pH 5.5 4.3 5.0 4.8 5.6 6.5 6.5 6.0

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: Manod 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

✓ No paths → 21' ← Blank rows

168'

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