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Collection of Plans for the Rothamsted Long-term Liming Experiment

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Rothamsted Long-term Liming Experiment 1976

Rothamsted Research

Rothamsted Research (1962-1996) *Rothamsted Long-term Liming Experiment 1976* ; Collection Of Plans For The Rothamsted Long-Term Liming Experiment, pp 12 - 12

Rothamsted LONG TERM LIMING

76/R/CS/110

	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
1	Mg	Mg	Mg	Mg	Mg	Mg	Mg	Mg
1	-P	-K	-H	-P	-P/K	-M	-L	-H
2	09	10	11	12	13	14	15	16
PH	4.5	4.3	5.0	4.8	5.6	6.5	6.5	6.0
1	Mg	Mg	Mg	Mg	Mg	Mg	Mg	Mg
1	-M	-O	-P/K	-L	-P/K	-K	-H	-P
2	17	18	19	20	21	22	23	24
PH	5.5	4.3	5.0	4.8	5.6	6.5	6.5	6.0
1	Mg	Mg	Mg	Mg	Mg	Mg	Mg	Mg
1	-M	-M	-M	-O	-M	-K	-P/K	-P
2	25	26	27	28	29	30	31	32
PH	5.5	5.4	5.7	4.5	5.4	4.9	4.6	5.1
1	Mg	Mg	Mg	Mg	Mg	Mg	Mg	Mg
1	-P/K	-O	-H	-H	-O	-L	-H	-H
2	5.0	4.4	6.6	6.5	4.2	4.7	6.6	6.7
	Mg	Mg	Mg	Mg	Mg	Mg	Mg	Mg

Sown by Nordstern drill in 8" rows

168'

No paths

21' rows at 8"

Spr. Oilseed Rape
15th Year

SAWYERS I 1976²³
Sponsor: J. Bolton

TREATMENTS per acre (hectare)

Whole Plots

O, L, M, H None, 2, 4, 8 tons (-, 5, 10, 20 tonnes)
CaCO₃ as ground chalk (1962-68)
PH of soil sample taken Jan 1975

P 0.5 cwt (63kg) P₂O₅ as super Broadcast in
K 1.0 cwt (125kg) K₂O as muriate } seedbed

Half Plots

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

Note: P K Mg treatments cumulative (Mg in 1974 + 76 only)

Basal manuring per acre (hectare)

600 lb (675kg) Nitro-Chalk 25

Variety: Maris Hadlow sown 5 lb/acre (6kg/ha) sown on 26 Mar

Design: 2 blocks of 16 plots split into 2

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

Sub-plot harvested 15 rows at 8"

10' x 27' = 0.0062 acre (0.0025 ha)

Previous cropping: 1962-64 beans,

1965-67 barley, 1968 potatoes, 1969 fallow
1970-73 barley, 1974 potatoes, 1975 oats