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Collection of Plans for the Woburn Long-term Liming Experiment



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Woburn Long-term Liming Experiment 1977

Rothamsted Research

Rothamsted Research (1962 - 1997) *Woburn Long-term Liming Experiment 1977* ; Collection Of Plans For The Woburn Long-Term Liming Experiment, pp 14 - 14

WOBURN

LONG-TERM LIMING

Spring oats

16th year STACKYARD series c 1977 212
Sponsor: J. Bolton

	77w/cs/10	34	35	36	37	38	39	40
1. Mg	Mg	Mg	-	Mg	Mg	-	-	Mg
2. O	L	H	L	-	M	O	L	H
PH	4.5	5.6	6.6	5.4	6.3	4.6	5.3	6.8
1. Mg	-	Mg	-	Mg	-	Mg	Mg	-
2. O	-	-	O	M	H	L	M	-
PH	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8
1. Mg	Mg	-	Mg	-	-	Mg	Mg	-
2. O	-	M	O	M	P	L	-	H
PH	4.8	6.1	4.9	6.1	6.7	5.4	6.4	7.0
1. Mg	-	-	Mg	-	-	Mg	-	Mg
2. O	PK	-	P	M	P	PK	-	-
PH	4.9	5.0	5.1	5.2	5.3	5.4	5.5	5.6
1. Mg	-	-	Mg	-	-	Mg	-	Mg
2. O	L	L	M	O	O	H	O	L
PH	5.5	5.4	6.5	4.6	4.7	6.7	4.7	5.6
1. Mg	Mg	-	-	-	Mg	Mg	-	Mg
2. O	H	L	H	O	M	H	M	M
PH	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4
1. Mg	-	-	-	-	Mg	Mg	-	Mg
2. O	-	L	H	O	-	P	M	-
PH	6.7	5.5	7.0	5.0	6.4	7.0	6.3	6.6

TREATMENTS per acre (hectare)
Whole Plots
 O, L, M, H None, 2, 4³/₄, 7¹/₂ tons (None, 5, 12, 19 tonnes) CaCO₃
 applied as ground chalk (1962-65)
 PH of soil samples taken Feb 1975
 0.5 cut (63kg) F₂O₅ as superphosphate } Broadcast
 1.0 cut (126kg) K₂O as muriate of potash } in seedbed

Half Plots
 -, Mg None, 100lb (112kg) Mg as sulphate of magnesias (10²/₆ Mg)

Note: P, K and Mg treatments cumulative (Mg in 1974, 76 & 1977 only)

BASAL MANURING per acre (hectare)
 340lb (380kg) Nitro-chalk 25

VARIETY
 Manod Sown at: 180lb (202kg) Date: 31 Mar.

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 Spring beans, 1965-67 barley, 1968 potatoes, 1969 fallow, 1970-73 barley, 1974 potatoes, 1975 Spring oats, 1976 Spring oilseed rape.