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Yields of the Field Experiments 1962

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62/W/C/6 Effect of K, Mg and Ca - Clover 4th Year

Rothamsted Research

Rothamsted Research (1963) *62/W/C/6 Effect of K, Mg and Ca - Clover 4th Year* ; Yields Of The Field Experiments 1962, pp 111 - 112 - DOI: <https://doi.org/10.23637/ERADOC-1-164>

62/C/6.1

CLOVER

K and Mg - Woburn Stackyard Series C 1962 the third year.

Design: 4 randomised blocks of 9 plots each.

Area of each plot: 0.0011 acres. Area harvested: 0.0005 acres.

Treatments. All combinations of:-

Mg: None; 29; 58 lb Mg per acre applied as kieserite.

K: None; 95; 190 lb K per acre (approximately 1; 2 cwt K_2O per acre) applied as sulphate of potash.

Basal dressings per acre: 1.0 cwt P_2O_5 as triple superphosphate, 0.2 cwt N as ammonium nitrate in seedbed.

Cultivations, etc.: Magnesium-free calcium carbonate applied at 50 cwt per acre: Dec 13, 1961. Rotary cultivated: Mar 2, 1962. Magnesium-free calcium carbonate applied at 50 cwt per acre: Mar 9. Rotary cultivated: Mar 26. Rotary cultivated, treatments and basal dressings applied, seed sown at 30 lb per acre: Apr 12. Cut twice: Aug 16, Oct 5. Variety: Dorset Marl Red Clover.

Standard errors per plot. Clover dry matter

1st cut: 1.00 cwt per acre or 8.6% (24 d.f.)

2nd cut: 0.78 cwt per acre or 7.4% (24 d.f.)

Total of 2 cuts: 1.53 cwt per acre or 6.9% (24 d.f.)

Note: For details of the previous year's results see "Results of the Field Experiments" 60/Ci/3 and 61/C/7. No yields were taken from the similar experiment on Sawyers Rothamsted as the growth was poor.

62/C/6.2

Summary of ResultsClover. Dry matter: cwt per acre

K: lb per acre	Mg: lb per acre			Mean	Mg: lb per acre			Mean
	None	29	58		None	29	58	
	<u>1st cut</u>				<u>2nd cut</u>			
	(±0.50)			(±0.29)	(±0.39)			(±0.21)
None	5.0	5.5	5.2	5.2	4.0	5.3	4.7	4.6
95	12.9	14.1	14.4	13.8	12.1	13.1	12.6	12.6
190	15.1	16.1	16.1	15.8	13.5	14.9	14.3	14.3
Mean	11.0	11.9	11.9	11.5	9.9	11.1	10.5	10.4
	(±0.29)				(±0.21)			

Total of 2 cuts

	(±0.76)			(±0.44)
None	9.0	10.8	9.8	9.9
95	25.0	27.1	27.0	26.4
190	28.7	31.0	30.4	30.0
Mean	20.9	23.0	22.4	22.0
	(±0.44)			

Mean dry matter % as cut: 1st cut 14.8
 2nd cut 15.7
 Total of 2 cuts 15.2