

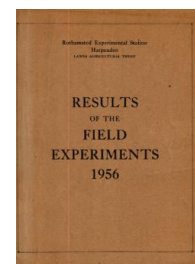
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Yields of the Field Experiments 1956

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56/R/CG/1 Lucerne - Single and Repeated Applications of K

Rothamsted Research

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56/Cg/1.1

LUCERNE

Single and repeated applications of potash - Great Harpenden II 1956, the second year.

Design: 6 randomized blocks of 8 plots each.

Area of each plot: 0.0147 acres.

Treatments: (For the 3 years 1955 - 57)

None (2 plots per block).

Single dressings in 1955: 1; 2; 3 cwt K_2O per acre as muriate of potash.

Annual dressings: 0.33; 0.66; 1.0 cwt K_2O per acre as muriate of potash.

Note: In spring 1955 all the potash dressings were given in the seed bed. Subsequent annual applications are applied as top dressings.

Basal dressing 1956: 3 tons ground chalk per acre.

Cultivations, etc.: Annual potash dressings applied: Nov 8, 1955.

Ground chalk applied: Mar 12, 1956. Cut and weighed green: three times - June 11, July 24, Oct 24.

Standard errors per plot. Dry matter:

1st cut:	2.15 cwt per acre or 7.4% (36 d.f.)
2nd cut:	2.50 cwt per acre or 9.4% (36 d.f.)
3rd cut:	0.972 cwt per acre or 5.8% (36 d.f.)
Total of 3 cuts:	3.89 cwt per acre or 5.4% (36 d.f.)

Note: For the first year's results, see "Results of the Field Experiments" 1955, Section Ce/1.

56/Cg/1.2

Summary of Results

	Dry matter: cwt per acre			K ₂ O: cwt per acre			Mean
	None	Applied 1955	Applied 1955 and 1956	Applied annually	Applied annually	Applied annually	
	1.0	2.0	3.0	0.33	0.66	1.0	
1st cut							
Mean	(± 0.62)			(± 0.88)			
Increase (±1.08)	27.2	29.7	30.8	31.9	27.6	29.8	29.8
		2.5	3.6	4.7	0.4	2.6	2.6
2nd cut							
Mean	(± 0.72)			(± 1.02)			
Increase (±1.25)	25.5	26.0	28.1	27.6	25.9	26.7	27.1
		0.5	2.6	2.1	0.4	1.2	1.6
3rd cut							
Mean	(± 0.28)			(± 0.40)			
Increase (±0.49)	16.0	16.8	17.6	17.3	16.4	17.1	17.3
		0.8	1.6	1.3	0.4	1.1	1.3
Total of 3 cuts							
Mean	(± 1.12)			(± 1.59)			
Increase (±1.95)	68.7	72.5	76.5	76.8	69.8	73.6	74.2
		3.8	7.8	8.1	1.1	4.9	5.5
1st cut, Mean dry matter % as cut: 24.2							
2nd cut, Mean dry matter % as cut: 23.0							
3rd cut, Mean dry matter % as cut: 24.5							
Total of 3 cuts, Mean dry matter % as cut: 23.9							