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Yields of the Field Experiments 1955

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55/R/CE/1 Lucerne - Levels and Times of K

Rothamsted Research

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55/Ce/1

LUCERNE

Single and repeated applications of potash - Great Harpenden II 1955 - the first year.

Design: 6 randomized blocks of 8 plots each.

Area of each plot: 0.0147 acre.

Treatments 1955:

Potash seedbed dressings: None (2 plots per block); 0.33; 0.66; 1.0 (2 plots per block); 2.0; 3.0 cwt K₂O per acre applied as muriate of potash.

Note: It is intended to repeat the following dressings annually for two further years: None; 0.33; 0.66; 1.0 (1 plot per block) cwt K₂O per acre.

Basal dressing: 14 cwt per acre ground chalk, 2.3 cwt per acre superphosphate placed beneath seed.

Cultivations, etc.: Ploughed: Oct 12, 1954. Chalk applied: Apr 6, 1955. Potash applied: May 6. Seed drilled at 174 lb. per acre with placed superphosphate: May 9. Cut: Sept 14. Variety: Du Puits. Previous crop: Barley.

Standard error per plot:

Dry Matter: 1.01 cwt per acre or 17.7% (36 d.f.)

Note: The yields have been corrected for a linear fertility trend along the blocks.

Summary of Results

	Dry matter: cwt per acre (1 cut)						Mean
	K ₂ O: cwt per acre						
	None	0.33	0.66	1.0	2.0	3.0	
Mean (±0.41)	5.2 ⁽¹⁾	5.7	5.8	5.6 ⁽¹⁾	6.3	6.1	5.7
Increase (±0.50)		0.5	0.6	0.4 ⁽²⁾	1.1	0.9	

(1) ±0.29

(2) ±0.41

Mean dry matter % as harvested: 36.9