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## Yields of the Field Experiments 1957

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### 57/R/CH/1 Lucerne - Single and Repeated Applications of K - 3rd Year

#### Rothamsted Research

Rothamsted Research (1958) *57/R/CH/1 Lucerne - Single and Repeated Applications of K - 3rd Year ; Yields Of The Field Experiments 1957*, pp 114 - 115 - DOI:

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57/Ch/1.1

LUCERNE

Single and repeated applications of potash - Great Harpenden II 1957,  
the third 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 applied in the  
seedbed. Subsequent annual applications are given as top dressings.

Basal dressing: None.

Cultivations, etc.: Annual potash dressings applied: Dec 3, 1956.

Cut and weighed green: three times - May 6, 1957, July 8, Oct 15.

Standard errors per plot. Dry matter:

1st cut:	1.87 cwt per acre or 7.6% (36 d.f.)
2nd cut:	2.40 cwt per acre or 6.0% (36 d.f.)
3rd cut:	1.33 cwt per acre or 8.0% (36 d.f.)
Total of 3 cuts:	3.44 cwt per acre or 4.2% (36 d.f.)

Note. For first and second year's results, see "Results of the Field  
Experiments" 1955, Section Ce/1; 1956, Section Cg/1.

57/Ch/1.2

Summary of Results

Dry matter: cwt per acre

	K <sub>2</sub> O: cwt per acre							Mean
	None	Applied 1955			Applied annually 1955, 1956 & 1957			
		1.0	2.0	3.0	0.33	0.66	1.0	
	1st cut							
	(±0.54)				(±0.76)			
Mean	22.9	23.3	25.2	26.1	24.6	25.6	27.0	24.7
Increase (±0.93)		+0.4	+2.3	+3.2	+1.7	+2.7	+4.1	
	2nd cut							
	(±0.69)				(±0.98)			
Mean	38.3	39.0	41.6	42.3	39.8	41.7	41.4	40.3
Increase (±1.20)		+0.7	+3.3	+4.0	+1.5	+3.4	+3.1	
	3rd cut							
	(±0.39)				(±0.54)			
Mean	16.3	16.8	16.7	17.0	17.1	17.1	16.2	16.7
Increase (±0.67)		+0.5	+0.4	+0.7	+0.8	+0.8	-0.1	
	Total of 3 cuts							
	(±0.99)				(±1.40)			
Mean	77.5	79.1	83.5	85.4	81.5	84.4	84.6	81.7
Increase (±1.72)		+1.6	+6.0	+7.9	+4.0	+6.9	+7.1	

<u>Mean dry matter % as cut:</u>	1st	25.4
	2nd	32.1
	3rd	33.3
	Total of 3 cuts	30.3