

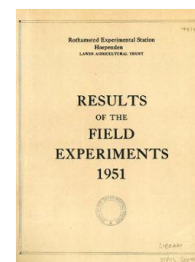
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## Yields of the Field Experiments 1951

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### 51/CG/1 Lucerne - Fertilizer Placement - Rothamsted

#### Rothamsted Research

Rothamsted Research (1952) *51/CG/1 Lucerne - Fertilizer Placement - Rothamsted* ; Yields Of The Field Experiments 1951, pp 86 - 87 - DOI: <https://doi.org/10.23637/ERADOC-1-171>

51/Cg/1.1

LUCERNE

Fertilizer placement - Long Hoos IV 1951

System of replication: 3 randomized blocks of 12 plots each.

Area of each plot: 0.00798 acre. Area harvested: 0.00644 acre.

Treatments - applied 1950 and 1951: No fertilizer (duplicate plots); no fertilizer but plots drilled over both in 1950 and 1951 (duplicate plots); and all combinations of:-  
Compound granular fertilizer (10%  $P_2O_5$ , 20%  $K_2O$ ): 2.5; 5.0 cwt per acre.

Method of placement: Broadcast during preparation of seed bed 1950; drilled in bands 3" below surface and 2" to side of seed 1950; half broadcast during preparation of seed bed 1950, half broadcast on surface 1951; half drilled beside seed 1950, half drilled beside rows of plants 1951.

Basal manuring: None.

Cultivations, etc.: Fertilizers applied: Mar 30. 1st cut: June 20.  
2nd cut: July 31. 3rd cut: Sept 26. Variety: Du Puits.

Standard errors per plot:

Dry matter, 1st cut: 2.95 cwt per acre or 5.6% (24 d.f.)  
2nd cut: 2.37 cwt per acre or 11.2% (24 d.f.)  
3rd cut: 2.41 cwt per acre or 9.4% (24 d.f.)

See. 1950 edition p.p. 50/Cg/1.1-1.2

Summary of Results

Dry matter: cwt per acre

Compound fertilizer cwt per acre	Method of placement				Mean
	Broadcast In seedbed '50	Drilled 3" below sur- face, 2" to side of seed	Broadcast $\frac{1}{2}$ on seedbed $\frac{1}{2}$ on sur- face '51	Drilled $\frac{1}{2}$ beside seed $\frac{1}{2}$ beside rows '51	
1st cut					(±0.85)
None (±1.20)	51.6 <sup>†</sup>	50.0 <sup>†</sup>			50.8
2.5 (±1.70)	53.3	55.1	53.3	50.6	53.1
5.0 (±1.70)	52.6	56.1	48.9	54.1	52.9
Mean (±1.20)	53.0*	55.6*	51.1	52.3	52.3
2nd cut					(±0.68)
None (±0.97)	19.9 <sup>†</sup>	22.6 <sup>†</sup>			21.2
2.5 (±1.37)	21.1	22.0	19.8	21.8	21.2
5.0 (±1.37)	21.3	20.5	19.5	22.5	20.9
Mean (±0.97)	21.2*	21.2*	19.6	22.2	21.1
3rd cut					(±0.70)
None (±0.98)	24.7 <sup>†</sup>	25.9 <sup>†</sup>			25.3
2.5 (±1.39)	26.3	25.4	24.0	25.1	25.2
5.0 (±1.39)	26.3	26.6	26.9	24.9	26.2
Mean (±0.98)	26.3*	26.0*	25.5	25.0	25.6

† See treatment description

\* Excluding 'None'.

Mean Dry Matter %.

1st cut:	22.0
2nd cut:	25.2
3rd cut:	19.8