

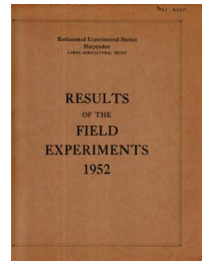
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Yields of the Field Experiments 1952

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52/CF/1 Lucerne - Fertilizer Placement - Rothamsted

Rothamsted Research

Rothamsted Research (1953) *52/CF/1 Lucerne - Fertilizer Placement - Rothamsted* ; Yields Of The Field Experiments 1952, pp 95 - 96 - DOI: <https://doi.org/10.23637/ERADOC-1-178>

52/Cf/1.1

LUCERNE

Fertilizer placement - Highfield 5 1952.

System of replication: 8 randomized blocks of 8 plots each, a high order interaction being confounded with block differences.

Area of each plot: 0.0136 acre.

Treatments: All combinations of:-

Superphosphate: None; 1.0 cwt P_2O_5 per acre.

Muriate of Potash: None; 1.0 cwt K_2O per acre.

Method of placement: Broadcast on seed bed (B): Ploughed in 10" (D)

Starter: None; 2 cwt granular superphosphate per acre placed beneath seed.

Basal dressing: None.

Cultivations, etc.: 'D' fertilizers applied: Mar 17. Ploughed: Mar 18. 'B' fertilizers applied: May 2. Starter applied, seed drilled at 20 lb per acre: May 7. Dusted with D.D.T: June 5. Cut and weighed. green: July 29 and again Oct 10. Variety: Du Puit. Previous crop: Kale.

Standard errors per plot: Dry Matter.

1st cut: 1.18 cwt per acre or 11.8% (42 d.f.)

2nd cut: 1.78 cwt per acre or 8.6% (42 d.f.)

52/Cf/1.2

Summary of Results

Dry Matter: cwt per acre

Starter	No ferti- lizer	Superphosphate		Muriate of potash		Superphosphate and Muriate of potash		Mean
		Broad- cast	Ploughed in	Broad- cast	Ploughed in	Broad- cast	Ploughed in	
		1st cut [‡]						
None (± 0.57)	6.8 ⁽¹⁾	7.7	9.0	6.5	7.6	9.0	10.1	7.9
Granular Super	12.0 ⁽¹⁾	10.7	12.2	12.5	12.2	12.9	13.2	12.2
Mean (± 0.42)	9.4 ⁽²⁾	9.2	10.6	9.5	9.9	10.9	11.6	10.1
Difference (± 0.78)	5.2 ⁽³⁾	3.0	3.2	6.0	4.6	3.9	3.1	4.3 ⁽²⁾

(1) ± 0.42
 (2) ± 0.30
 (3) ± 0.59

Mean Dry Matter %: 27.7

^{*} Adjusted for block effects

2nd cut

None (± 0.89)	18.8 ⁽⁴⁾	19.5	19.4	18.6	18.6	20.6	20.6	19.4
Granular Super	21.9 ⁽⁴⁾	21.6	21.6	22.2	22.2	21.4	22.3	21.9
Mean (± 0.63)	20.3 ⁽⁵⁾	20.6	20.5	20.4	20.4	21.0	21.5	20.6
Difference (± 1.26)	3.1 ⁽⁶⁾	2.1	2.2	3.6	3.6	0.8	1.7	2.5 ⁽⁵⁾

(4) ± 0.63
 (5) ± 0.45
 (6) ± 0.89

Mean Dry Matter %: 22.9