ROTHAMSTED RESEARCH

Yields of the Field Experiments 1952

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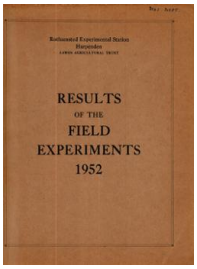

52/CF/1 Lucerne - Fertilizer Placement - Rothamsted

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.)

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Summary of Results

Dry Matter: cwt per acre

Starter	No fertilizer	Superphosphate Broadcast	Superphosphate Ploughed in	Muriate of potash Broadcast	Muriate of potash Ploughed in	Superphosphate and Muriate of potash Broadcast	Superphosphate and Muriate of potash Ploughed in	Mean
				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

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