ROTHAMSTED RESEARCH

Yields of the Field Experiments 1950

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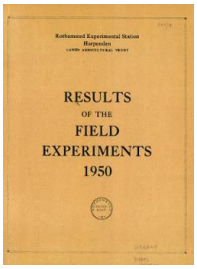

50/CH/1 Permanent Grass - Fertilizer Placement - Rothamsted

Rothamsted Research

Rothamsted Research (1951) *50/CH/1 Permanent Grass - Fertilizer Placement - Rothamsted ;* Yields Of The Field Experiments 1950, pp 83 - 84 **- DOI: https://doi.org/10.23637/ERADOC-1-185**

50/Ch/1.1

PERMANENT GRASS

Fertilizer placement - Highfield 1950

System of replication: 3 randomized blocks of 6 plots each

Area of each plot: 0.0137 acre

Treatments: No fertilizer; no fertilizer but plots drilled over; and all combinations of:-
Compound granular PK fertilizer (13% P_2O_5, 15% K_2O): 3.2, 6.4 cwt per acre.
Method of placement: Broadcast; drilled in bands 10" apart and 3" deep.

Basal manuring: 3 cwt sulphate of ammonia per acre

Cultivations, etc.:
Fertilizer broadcast and drilled: Apr 4. Sulphate of ammonia applied: Apr 6. 1st cut: June 8. 2nd cut: Aug 2.

Standard errors per plot:
Dry matter, 1st cut: 2.26 cwt per acre or 8.4% (10 d.f.)
2nd cut: 1.36 cwt per acre or 11.4% (10 d.f.)

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Summary of Results

Grass Dry Matter: cwt per acre

Method of Placement	Compound Fertilizer cwt per acre None	3.2	6.4	Mean	Difference of levels
1st Cut					
		(±1.31)		(±0.92)	(±1.85)
Broadcast	25.2+	29.7	28.9	29.3*	-0.8
Drilled	23.5+	25.4	28.0	26.7*	2.6
Mean (±0.92)	24.4	27.6	28.5	26.8	0.9 (±1.31)
Difference (±1.85)	-1.7	-4.3	-0.9	-2.6* (±1.31)	
2nd Cut					
		(±0.79)		(±0.56)	(±1.11)
Broadcast	11.7+	11.8	12.5	12.1*	0.7
Drilled	11.8+	12.2	11.7	11.9*	-0.5
Mean (±0.56)	11.7	12.0	12.1	11.9	0.1 (±0.79)
Difference (±1.11)	0.1	0.4	-0.8	-0.2* (±0.79)	

+see Treatment descriptions.

*excluding no fertilizer.

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