

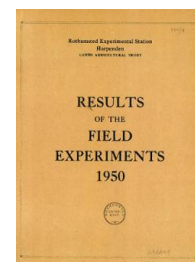
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50/CH/1 Permanent Grass - Fertilizer Placement - Rothamsted

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.)

50/Ch/1.2

Summary of Results

Grass Dry Matter: cwt per acre

| Method of Placement | Compound Fertilizer cwt per acre | | | Mean | Difference of levels |
|---------------------|----------------------------------|---------|------|------------------|----------------------|
| | None | 3.2 | 6.4 | | |
| | | (±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.