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Yields of the Field Experiments 1971

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71/R/CS/2 Grazed Reference Plots - Old Grass

Rothamsted Research

Rothamsted Research (1972) *71/R/CS/2 Grazed Reference Plots - Old Grass* ; Yields Of The Field Experiments 1971, pp 128 - 129 - DOI: <https://doi.org/10.23637/ERADOC-1-97>

71/R/CS/2

GRAZED REFERENCE PLOTS

Object: To study the residual effects of N, P and K fertiliser, applied to grazed grass 1959 - 1970, on the yield of grass from which livestock are now excluded - Highfield IX.

The thirteenth year, old grass.

For previous years see 64/B/11(t), 65/B/2, 66/B/2(t), 67/B/2, 68/B/3 and 69-70/R/CS/2.

The experiment is now fenced to exclude livestock. Yields are taken by self-propelled scythe.

Whole plot dimensions: 4.57 x 7.32. Area harvested: 0.00059.

Basal N was applied at 125.5 kg as 'Nitro-Chalk' for each of the three cuts taken.

Cultivations, etc.: First basal N applied: 3 Mar, 1971. Cut three times: 24 May, 12 July, 2 Nov. Basal N applied after each of first two cuts.

NOTE: The percentages of P and K in the dry grass were measured for each cut.

Standard errors per plot. Dry matter, tonnes/hectare:

| | |
|------------------|-------------------------|
| 1st cut: | 0.562 or 9.7% (39 d.f.) |
| 2nd cut: | 0.234 or 7.5% (39 d.f.) |
| 3rd cut: | 0.313 or 9.3% (39 d.f.) |
| Total of 3 cuts: | 0.690 or 5.6% (39 d.f.) |

71/R/CS/2

SUMMARY OF RESULTS

GRASS: DRY MATTER: TONNES/HECTARE

| 1959-70 | 1st cut | 2nd cut | 3rd cut | Total of 3 cuts |
|---------|----------|----------|----------|-----------------|
| PK | (±0.281) | (±0.117) | (±0.156) | (±0.345) |
| NO 00 | 4.89 | 3.29 | 3.18 | 11.36 |
| N1 00 | 4.47 | 2.59 | 3.25 | 10.31 |
| A1 00 | 4.95 | 2.49 | 3.21 | 10.66 |
| NO 10 | 5.65 | 3.61 | 3.01 | 12.27 |
| N1 10 | 5.70 | 2.58 | 3.05 | 11.33 |
| A1 10 | 5.72 | 2.73 | 2.92 | 11.37 |
| NO 01 | 4.68 | 3.71 | 3.40 | 11.80 |
| N1 01 | 5.68 | 3.10 | 3.65 | 12.42 |
| A1 01 | 5.41 | 2.63 | 3.73 | 11.77 |
| NO 11 | 6.00 | 4.01 | 3.27 | 13.28 |
| N1 11 | 6.59 | 3.26 | 3.50 | 13.34 |
| A1 11 | 7.27 | 3.21 | 3.72 | 14.20 |
| N2 11 | 6.69 | 3.14 | 3.56 | 13.39 |
| A2 11 | 7.22 | 3.03 | 3.52 | 13.77 |
| Mean | 5.78 | 3.10 | 3.35 | 12.23 |

Mean D.M. %: 1st cut: 17.4
 2nd cut: 19.9
 3rd cut: 27.9
 Total of 3 cuts: 21.7