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# Yields of the Field Experiments 1972

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## 72/R/CS/2 Grazed Reference Plots - Old Grass

### Rothamsted Research

Rothamsted Research (1973) *72/R/CS/2 Grazed Reference Plots - Old Grass* ; Yields Of The Field Experiments 1972, pp 133 - 134 - DOI: <https://doi.org/10.23637/ERADOC-1-62>

72/R/CS/2

GRAZED REFERENCE PLOTS

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

Sponsor: F.V. Widdowson.

The fourteenth year, old grass.

For previous years see 64/B/11(t), 65/B/2, 66/B/2(t), 67/B/2, 68/B/3, 69-70/R/CS/2 and 71/R/CS/2(t).

Whole plot dimensions: 4.57 x 7.32. Area harvested: 0.00058.

Cultivations, etc.: First basal N applied: 1 Mar, 1972. Cut three times: 22 May, 19 July, 25 Oct. Basal N applied after each of the 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:         | 0.597 or 13.5% (39 d.f.) |
| 2nd cut:         | 0.254 or 6.8% (39 d.f.)  |
| 3rd cut:         | 0.316 or 18.9% (39 d.f.) |
| Total of 3 cuts: | 0.711 or 7.3% (39 d.f.)  |

72/R/CS/2

TABLES OF MEANS

GRASS: DRY MATTER: TONNES/HECTARE

| Treatment<br>1959-70 (T)           | 1st cut | 2nd cut | 3rd cut | Total of 3 cuts |
|------------------------------------|---------|---------|---------|-----------------|
| PK                                 |         |         |         |                 |
| NO 00                              | 2.81    | 4.12    | 1.53    | 8.46            |
| N1 00                              | 2.53    | 3.67    | 1.62    | 7.82            |
| A1 00                              | 2.89    | 3.49    | 1.56    | 7.94            |
| NO 10                              | 3.90    | 3.36    | 1.79    | 9.05            |
| N1 10                              | 3.48    | 2.95    | 1.39    | 7.81            |
| A1 10                              | 3.51    | 2.78    | 1.49    | 7.78            |
| NO 01                              | 3.45    | 4.70    | 1.72    | 9.87            |
| N1 01                              | 4.21    | 3.98    | 1.84    | 10.03           |
| A1 01                              | 4.26    | 4.08    | 1.63    | 9.97            |
| NO 11                              | 6.50    | 3.88    | 1.92    | 12.30           |
| N1 11                              | 5.88    | 3.90    | 2.00    | 11.77           |
| A1 11                              | 6.69    | 3.58    | 1.65    | 11.92           |
| N2 11                              | 5.84    | 3.88    | 1.74    | 11.46           |
| A2 11                              | 5.79    | 3.53    | 1.57    | 10.88           |
| Mean                               | 4.41    | 3.71    | 1.67    | 9.79            |
| STANDARD ERROR OF DIFFERENCES<br>T | 0.422   | 0.179   | 0.223   | 0.503           |
| Mean D.M. %:                       | 17.7    | 23.3    | 28.3    | 23.1            |