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# Numerical Results of the Field Experiments 1968

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## 68/C/17 Insecticides and Molluscicides - Grass

### Rothamsted Research

Rothamsted Research (1970) *68/C/17 Insecticides and Molluscicides - Grass* ; Numerical Results Of The Field Experiments 1968, pp 187 - 188 - DOI: <https://doi.org/10.23637/ERADOC-1-58>

68/C/25.2

SUMMARY OF RESULTS

DRY MATTER

|                     | O           | I    | E    | G    | Mean           |
|---------------------|-------------|------|------|------|----------------|
| STACKYARD (R)       |             |      |      |      |                |
| 1ST CUT             |             |      |      |      |                |
| Mean ( $\pm 1.12$ ) | 21.7        | 17.9 | 24.3 | 29.3 | 23.3           |
|                     | (1) and (2) |      |      |      | ( $\pm 0.50$ ) |
| U                   | 17.8        | 15.2 | 22.0 | 28.5 | 20.9           |
| M                   | 25.5        | 20.6 | 26.6 | 30.2 | 25.7           |
|                     | (3) and (4) |      |      |      | ( $\pm 0.70$ ) |
| NO                  | 18.6        | 11.2 | 21.7 | 10.2 | 15.4           |
| N1                  | 19.6        | 17.5 | 23.7 | 27.1 | 22.0           |
| N2                  | 24.3        | 21.1 | 27.1 | 37.8 | 27.6           |
| N3                  | 24.0        | 21.8 | 24.7 | 42.3 | 28.2           |

Mean D.M. %: 18.1

(1) ( $\pm 1.32$ ) (3) ( $\pm 1.65$ ) For use in horizontal and diagonal comparisons only

(2) ( $\pm 0.99$ ) (4) ( $\pm 1.40$ ) For use in vertical and interaction comparisons only

68/c/25.1

N FIXATION - LUCERNE AND GRASS

(EAT and WEAQ)

Nitrogen fixation by lucerne - Rothamsted (R) Stackyard and Woburn (W) Stackyard C 1968, the second year. For treatments etc. and for the previous year's results see 'Results' 67/c/33.

In 1968 the nitrogen treatments were none (N0), 30 (N1), 60 (N2), 90 (N3) lb N as 'Nitro-Chalk' applied for every cut.

Cultivations, etc.:-

Stackyard (R): PK and first 'Nitro-Chalk' dressings applied: 22 Mar, 1968. Cut 4 times: 15 May, 2 July, 12 Aug and 30 Sept. 'Nitro-Chalk' applied after first 3 cuts.

Stackyard C (W): PK and first 'Nitro-Chalk' dressings applied: 25 Mar, 1968. Cut twice: 20 May, 3 July. 'Nitro-Chalk' applied after each cut.

- NOTES: (1) An error was made in applying the N dressings after the second cut on Stackyard C (W) and the experiment was therefore discontinued.  
(2) Soil samples were taken on 2 Feb, 1968 for counts of *Rhizobium leguminosarum*.

Standard errors per plot. Dry matter:

|                         |             |                         |
|-------------------------|-------------|-------------------------|
| Stackyard (R): 1st cut: | Whole plot: | 4.49 or 19.3% (6 d.f.)  |
|                         | Sub plot:   | 2.81 or 12.0% (24 d.f.) |
| 2nd cut:                | Whole plot: | 1.95 or 7.8% (6 d.f.)   |
|                         | Sub plot:   | 3.92 or 15.6% (24 d.f.) |
| 3rd cut:                | Whole plot: | 1.80 or 10.8% (6 d.f.)  |
|                         | Sub plot:   | 1.59 or 9.5% (24 d.f.)  |
| 4th cut:                | Whole plot: | 1.26 or 12.1% (6 d.f.)  |
|                         | Sub plot:   | 1.46 or 13.9% (24 d.f.) |
| Total of 4 cuts:        | Whole plot: | 8.71 or 11.5% (6 d.f.)  |
|                         | Sub plot:   | 7.65 or 10.1% (24 d.f.) |

Stackyard C (W):

|                  |             |                         |
|------------------|-------------|-------------------------|
| 1st cut:         | Whole plot: | 3.21 or 12.7% (6 d.f.)  |
|                  | Sub plot:   | 4.54 or 18.0% (24 d.f.) |
| 2nd cut:         | Whole plot: | 1.13 or 4.9% (6 d.f.)   |
|                  | Sub plot:   | 2.70 or 11.6% (24 d.f.) |
| Total of 2 cuts: | Whole plot: | 3.99 or 8.2% (6 d.f.)   |
|                  | Sub plot:   | 6.93 or 14.3% (24 d.f.) |