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# Yields of the Field Experiments 1971

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## 71/R/CS/61 Fungicides - Old Grass

### Rothamsted Research

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71/R/CS/61

FUNGICIDES

Object: To study the effects of three fungicides on yield and pathogens of old grass - Road Piece.

The first year, old grass.

Design: 3 randomised blocks of 4 plots, split into 2.

Whole plot dimensions: 5.49 x 7.32. Sub plot area harvested: 0.00074.

Treatments: All combinations of:-

Whole plots: 1. Fungicides: None (O), benomyl at 1.12 kg (B), carboxin at 1.12 kg (C), mancozeb at 1.12 kg (M).

Sub plots: 2. Nitrogen: 125 kg N in spring plus 75 kg N after each cut except the last (N2), 188 kg N in spring plus 113 kg N after each cut except the last (N3).

All N was applied as NK compound (25:0:16).

The fungicides were each applied in 281 l on 4 occasions (26 Nov, 1970, 12 Mar, 1971, 28 May, 16 Aug).

Basal applications: 500 kg (0:14:28) in winter.

Cultivations, etc.: PK applied: 19 Oct, 1970. NK applied:

26 Mar, 1971. Cut 3 times: 20 May, 8 July, 13 Sept. NK applied after each cut including\* the last.

\* It was intended to take a fourth cut, but growth was insufficient.

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

|                  |                                    |
|------------------|------------------------------------|
| 1st cut:         | Whole plot: 0.260 or 5.1% (6 d.f.) |
|                  | Sub plot: 0.314 or 6.1% (8 d.f.)   |
| 2nd cut:         | Whole plot: 0.262 or 7.8% (6 d.f.) |
|                  | Sub plot: 0.205 or 6.2% (8 d.f.)   |
| 3rd cut:         | Whole plot: 0.077 or 5.5% (6 d.f.) |
|                  | Sub plot: 0.167 or 12.0% (8 d.f.)  |
| Total of 3 cuts: | Whole plot: 0.279 or 2.8% (6 d.f.) |
|                  | Sub plot: 0.316 or 3.2% (8 d.f.)   |

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SUMMARY OF RESULTS

DRY MATTER: TONNES/HECTARE

|                      | N2          | N3   | Mean            |
|----------------------|-------------|------|-----------------|
| 1ST CUT              |             |      |                 |
|                      | (1) and (2) |      | ( $\pm 0.150$ ) |
| O                    | 5.34        | 5.00 | 5.17            |
| B                    | 5.09        | 5.27 | 5.18            |
| C                    | 5.19        | 5.02 | 5.11            |
| M                    | 5.08        | 4.93 | 5.00            |
| Mean ( $\pm 0.091$ ) | 5.18        | 5.05 | 5.11            |

|                      |             |      |                 |
|----------------------|-------------|------|-----------------|
| 2ND CUT              |             |      |                 |
|                      | (3) and (4) |      | ( $\pm 0.151$ ) |
| O                    | 3.40        | 3.29 | 3.35            |
| B                    | 3.28        | 3.37 | 3.33            |
| C                    | 3.17        | 3.04 | 3.10            |
| M                    | 3.30        | 3.48 | 3.39            |
| Mean ( $\pm 0.059$ ) | 3.28        | 3.30 | 3.29            |

(1) ( $\pm 0.198$ ) (3) ( $\pm 0.173$ ) For use in vertical and diagonal comparisons only  
 (2) ( $\pm 0.181$ ) (4) ( $\pm 0.118$ ) For use in horizontal and interaction comparisons only

Mean D.M. %: 1st cut: 20.6  
 2nd cut: 19.9

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DRY MATTER: TONNES/HECTARE

|                      | N2          | N3   | Mean            |
|----------------------|-------------|------|-----------------|
|                      | 3RD CUT     |      |                 |
|                      | (5) and (6) |      | ( $\pm 0.044$ ) |
| O                    | 1.53        | 1.12 | 1.33            |
| B                    | 1.36        | 1.13 | 1.25            |
| C                    | 1.75        | 1.21 | 1.48            |
| M                    | 1.79        | 1.22 | 1.51            |
| Mean ( $\pm 0.048$ ) | 1.61        | 1.17 | 1.39            |

|                      |                 |      |                 |
|----------------------|-----------------|------|-----------------|
|                      | TOTAL OF 3 CUTS |      |                 |
|                      | (7) and (8)     |      | ( $\pm 0.161$ ) |
| O                    | 10.27           | 9.41 | 9.84            |
| B                    | 9.73            | 9.78 | 9.75            |
| C                    | 10.11           | 9.27 | 9.69            |
| M                    | 10.17           | 9.63 | 9.90            |
| Mean ( $\pm 0.091$ ) | 10.07           | 9.52 | 9.80            |

(5) ( $\pm 0.081$ ) (7) ( $\pm 0.206$ ) For use in vertical and diagonal comparisons only  
 (6) ( $\pm 0.096$ ) (8) ( $\pm 0.182$ ) For use in horizontal and interaction comparisons only

Mean D.M. %: 3rd cut: 23.7  
 Total of 3 cuts: 21.4