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Yields of the Field Experiments 1972

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72/R/CS/61 Fungicides - Old Grass

Rothamsted Research

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72/R/CS/61

FUNGICIDES

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

Sponsors: D.B. Slope, E.W. Broom.

The second year, old grass.

For previous year see 71/R/CS/61(t).

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 (F): None (O), benomyl at 1.12 kg (B), carboxin at 1.12 kg (C), mancozeb at 1.12 kg (M).

Sub plots: 2. Nitrogen (N): 125 kg N in spring plus 75 kg after each cut except the last (2), 188 kg N in spring plus 113 kg N after each cut except the last (3). All N was applied as NK compound (25:0:16).

The fungicides were each applied in 280 l on 2 occasions (26 June, 1972 and 16 Aug).

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

Cultivations, etc.: PK applied: 15 Nov, 1971. NK applied: 13 Mar, 1972. Cut 3 times: 23 May, 20 July, 14 Sept. NK applied after each cut except the last.

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

1st cut:	Whole plot: 0.328 or 4.9% (6 d.f.)
	Sub plot: 0.406 or 6.1% (8 d.f.)
2nd cut:	Whole plot: 0.148 or 4.9% (6 d.f.)
	Sub plot: 0.188 or 6.2% (8 d.f.)
3rd cut:	Whole plot: 0.167 or 15.5% (6 d.f.)
	Sub plot: 0.126 or 11.8% (8 d.f.)
Total of 3 cuts:	Whole plot: 0.368 or 3.4% (6 d.f.)
	Sub plot: 0.519 or 4.8% (8 d.f.)

72/R/CS/61

TABLES OF MEANS

DRY MATTER: TONNES/HECTARE

1ST CUT

	N		Mean
	2	3	
F			
O	6.51	6.68	6.59
B	5.91	6.72	6.31
C	7.27	6.37	6.82
M	6.76	6.88	6.82
Mean	6.61	6.66	6.64

STANDARD ERRORS OF DIFFERENCES

	F	N	F N
Unless same levels of	0.268	0.166	0.356
F			0.331

Mean D.M. %: 17.7

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DRY MATTER: TONNES/HECTARE

2ND CUT

	N		Mean
	2	3	
F			
O	2.93	3.10	3.01
B	3.05	3.08	3.07
C	3.12	2.70	2.91
M	3.24	3.06	3.15
Mean	3.09	2.98	3.04

STANDARD ERRORS OF DIFFERENCES

	F	N	F N
Unless same levels of	0.121	0.077	0.162
F			0.153

Mean D.M. %: 22.9

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DRY MATTER: TONNES/HECTARE

3RD CUT

	N		Mean
	2	3	
F			
O	1.21	1.01	1.11
B	0.93	1.01	0.97
C	1.12	1.00	1.06
M	1.19	1.04	1.11
Mean	1.11	1.02	1.06

STANDARD ERRORS OF DIFFERENCES

	F	N	F N
Unless same levels of	0.136	0.051	0.154
F			0.103

Mean D.M. %: 23.7

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DRY MATTER: TONNES/HECTARE

TOTAL OF 3 CUTS

	N		Mean
	2	3	
F			
O	10.64	10.79	10.72
B	9.89	10.81	10.35
C	11.51	10.07	10.79
M	11.19	10.98	11.09
Mean	10.81	10.66	10.74

STANDARD ERRORS OF DIFFERENCES

	F	N	F N
Unless same levels of	0.301	0.212	0.424
F			0.424

Mean D.M. %: 21.4