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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)			
			(±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 (±0.091)	5.18	5.05	5.11

	2ND CUT		
	(3) and (4)		(±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 (±0.059)	3.28	3.30	3.29

(1) (±0.198) (3) (±0.173) For use in vertical and diagonal comparisons only
 (2) (±0.181) (4) (±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)			
			(±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 (±0.048)	1.61	1.17	1.39

TOTAL OF 3 CUTS			
(7) and (8)			
			(±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 (±0.091)	10.07	9.52	9.80

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

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