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Yields of the Field Experiments 1965

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65/R/C/21 Oxamide - Grass

Rothamsted Research

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65/C/21.1

GRASS

The effects of oxamide on the growth and N uptake of sown ryegrass, Highfield O and E I, 1965.

Design: 4 randomised blocks of 10 plots.

Area of each plot: 0.0009. Area harvested: 0.0005.

Treatments: None (0) (2 plots per block) and all combinations of:-

1. N fertiliser:
 - Oxamide powder (OP)
 - Oxamide, small granules (2-4 mm) (OS)
 - Oxamide, large granules (7-9 mm) (OL)
 - Ammonium nitrate (A)
2. Levels of N: 100 lb (N1), 200 lb (N2) N.

Basal applications: 4 cwt (0:14:28). Weedkiller: Mecoprop at 3 lb in 50 gals.

Cultivations, etc.: Ploughed: Oct 8, 1964. Basal PK and treatment fertilisers applied, seed drilled at 30 lb: Apr 7, 1965. Sprayed: May 31. Cut 3 times: June 25, Aug 6, Oct 7. Variety: S22.

NOTE: % N in grass was determined.

Standard errors per plot. Dry matter:

1st cut:	2.43 or 8.8% (27 d.f.)
2nd cut:	2.75 or 8.2% (27 d.f.)
3rd cut:	1.78 or 12.1% (27 d.f.)
Total of 3 cuts:	4.61 or 6.1% (27 d.f.)

65/C/21.2

SUMMARY OF RESULTS

DRY MATTER

	O	OP	OS	OL	A	Mean
1ST CUT						
			(±1.22)			(±0.61)
N1		30.2	28.4	22.1	31.9	28.2
N2		35.3	32.2	29.3	35.1	33.0
Mean (±0.86)	15.8	32.8	30.3	25.7	33.5	27.6*
2ND CUT						
			(±1.37)			(±0.69)
N1		31.1	33.9	32.5	31.3	32.2
N2		36.2	35.9	38.1	36.1	36.6
Mean (±0.97)	28.8	33.7	34.9	35.3	33.7	33.3*

* General mean

Mean D.M. %: 1st cut: 14.0
 2nd cut: 14.7

65/C/21.3

DRY MATTER						
	O	OP	OS	OL	A	Mean
3RD CUT						
			(±0.89)			(±0.44)
N1		12.0	13.9	14.8	13.5	13.6
N2		15.8	20.5	21.3	16.9	18.6
Mean (±0.63)	8.8	13.9	17.2	18.0	15.2	14.6*
TOTAL OF 3 CUTS						
			(±2.31)			(±1.15)
N1		73.3	76.2	69.4	76.8	73.9
N2		87.3	88.6	88.7	88.1	88.2
Mean (±1.63)	53.4	80.3	82.4	79.1	82.4	75.5*

* General mean

Mean D.M. %: 3rd cut: 20.2
 Total of 3 cuts: 16.3