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Numerical Results of the Field Experiments 1968

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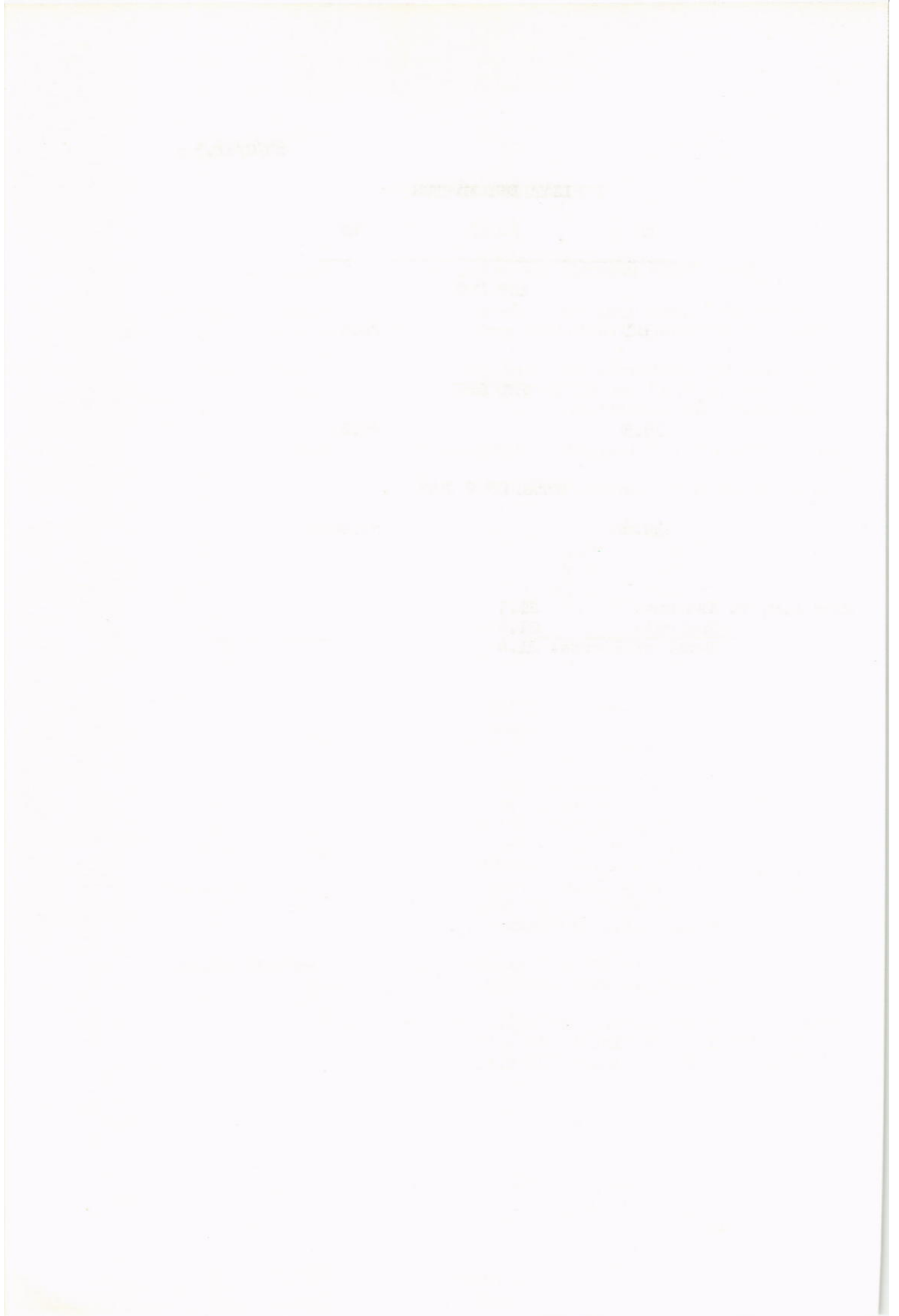


68/C/24 the Effect of Granule Size on the Rate of Release of N from Ibdur - Grass

Rothamsted Research

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68/c/18.3

LEY: DRY MATTER

LC		LN
	1ST CUT	
23.1		26.8
	2ND CUT	
16.5		25.2
	TOTAL OF 2 CUTS	
39.6		52.0

Mean D.M. %: 1st cut: 21.7
2nd cut: 21.4
Total of 2 cuts: 21.4

68/c/18.2

SUMMARY OF RESULTS

WINTER WHEAT

	NO	N1	N2	N3	Mean
GRAIN					
(1) and (2)					
					(±1.09)
DG	30.3	39.8	39.0	35.6	36.2
ST	20.5	31.2	36.4	38.2	31.6
PT	21.1	30.4	36.5	37.5	31.4
GM	25.5	37.7	36.0	35.5	33.7
FD	20.6	33.4	37.5	36.8	32.1
FS	21.0	31.6	37.0	38.4	32.0
Mean (±0.57)	23.2	34.0	37.1	37.0	32.8

- (1) (±1.63) For use in vertical and diagonal comparisons only
 (2) (±1.39) For use in horizontal and interaction comparisons only

STRAW

DG	32.9	44.3	46.8	49.9	43.5
ST	21.9	35.2	42.3	46.0	36.3
PT	24.0	35.0	42.6	43.5	36.3
GM	20.3	35.1	41.3	41.7	34.6
FD	22.0	37.7	41.0	42.2	35.7
FS	24.7	36.1	42.3	43.1	36.5
Mean	24.3	37.2	42.7	44.4	37.2

Mean D.M. %: Grain: 81.1
 Straw: 79.2

68/c/18.1

ORGANIC MANURING EXPERIMENT

(WOM)

The cumulative effects of organic matter on light land - Woburn Stackyard B 1968, 4th year.

For previous history, rotation, treatments etc., see 'Results' 66/c/31 and 67/c/24. All plots except those under leys (LC and LN) carried winter wheat.

Area of each sub plot: 0.0156. Area harvested: Wheat - 0.0104 leys - 0.0129.

Fertilisers applied Autumn 1967 (cwt)

Treatment	P2O5	K2O	MgO
DG	-	-	-
ST	0.4	-	0.15
PT	0.5	1.0	-
GM	0.5	1.4*	0.2
FD	2.2	1.6	0.8
FS	0.5	1.0	0.2
LC	0.5	2.0	0.2
LN	0.5	2.0	0.2

* Including 0.4 applied in spring before undersowing.

Nitrogen to winter wheat:

NO, N1, N2, N3. 0.0, 0.4, 0.8, 1.2 as 'Nitro-Chalk' in addition to basal application of 0.2 cwt N.

Cultivations, etc.:

LC and LN plots: P, K, and Mg applied: 3 Oct, 1967.

'Nitro-Chalk' applied to LN plots: 27 Mar, 1968, 14 June.

Cut twice: 5 June, 10 Oct.

Wheat: Subsoiled: 25 Sept, 1967. PK and Mg applied: 10 Oct.

Peat, straw and FYM applied, ploughed: 11 Oct. Seed

drilled at 190 lb: 25 Oct. K applied to GM plots: 27 Mar, 1968.

GM plots undersown with late flowering red clover at 15 lb:

29 Mar. N applied: 18 Apr. All plots except GM plots

sprayed with ioxynil/mecoprop (Actril C at 6 pints in

25 gals): 25 Apr. Combine harvested: 23 Aug. Variety: Cappelle.

Standard errors per plot. Winter wheat:

Whole plot: 2.19 or 6.7% (15 d.f.)

Sub plot: 2.79 or 8.5% (54 d.f.)