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# Details of the Classical and Long-term Experiments 1968-73



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### R/PG/5 Park Grass - Grass

#### **Rothamsted Research**

Rothamsted Research (1977) *R/PG/5 Park Grass - Grass ;* Details Of The Classical And Long-Term Experiments 1968-73, pp 17 - 18 - **DOI:** https://doi.org/10.23637/ERADOC-1-193

#### PARK GRASS

(R/PG/5)

The manuring, liming and general management of this experiment has continued as set out in *Details 1967*, pp 35-39, but the rates of application are given for convenience in metric terms.

#### Symbols, materials and rates of application

Manures applied annually except where indicated.

N1, N2, N3:	Sulphate of ammonia to supply 48, 96, 144 kg N
N1 <sup>X</sup> , N2 <sup>X</sup>	Nitrate of soda to supply 48, 96 kg N
P	Powdered superphosphate (approx. 20% P <sub>2</sub> O <sub>5</sub> ) to supply 34 kg P (except plot 20)
K	Sulphate of potash (approx. 50% K <sub>2</sub> O) to supply 224 kg K (except plot 20)
Na	Sulphate of soda (approx. 14% Na) to supply 16 kg Na
Mg	Sulphate of magnesia (approx. 10% Mg) to supply 11 kg Mg
Si	Silicate of soda at 448 kg water soluble powder
FYM	35 t farmyard manure every fourth year (applied autumn 1968 and 1972)
F	Fish meal (about 6.5% N) to supply 63 kg N every fourth year (applied autumn 1970)
P, K, Na, Mg	applied in winter
N1, N2, N1 <sup>X</sup>	applied in one dressing about March
N2 <sup>X</sup>	Half in March and half in April/May
N3	Two-thirds applied in March and one-third in April/May

NOTES: Plot 20: In the three years between applications of FYM mineral fertilisers are applied: 30 kg N (as nitrate of soda), 17 kg P (as superphosphate) and 45 kg K (as muriate of potash)

Plots 5-1, 5-2, 6-N were used for microplot experiments during the period (see 'NPK to Old Grass' and 'N levels to Old Grass')

Plot 6-S: Excluded during the period 1965-71 and used for microplot experiments 1967-70 (simulated grazing R/CS/23; received PKNaMg 1965-71 as previous to 1965). Received N1 in 1972 and N1PKNaMg in 1973.

## Liming. Ground chalk (t CaCO<sub>3</sub>)

	Dec. 1967			Nov. 1971	
Sub-plots	a	b	С	a	
1	2.00	_	3.14	2.00	
2, 3, 4/1	2.00	_	_	2.00	
4/2	2.00	1.26	5.65	_	
7/8	2.00	_	_	2.00	
9	2.00	2.51	4.39	2.00	
10	2.00	1.26	5.02	_	
11/1	4.00	6.28	5.02	_	
11/2	4.00	3.77	5.02	_	
13	2.00	_	1.26	2.00	
14, 16, 17	2.00	_	_	2.00	

		Dec. 1967			Nov 1	Nov. 1971	
					1404. 1		
	a	b	C		a		
18		1.14	_	2.51		1.14	
Whole plot	S						
5/1		6.15				-	
5/2		5.53					
6		7.53				_	
1		_					
15		_				_	
18/2		1.14				1.14	
19, 20		1.14				_	

Soil series. Batcombe series

#### References

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