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

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### R/GC/8 Garden Clover - Clover

#### Rothamsted Research

Rothamsted Research (1977) *R/GC/8 Garden Clover - Clover* ; Details Of The Classical And Long-Term Experiments 1968-73, pp 29 - 29 - DOI: <https://doi.org/10.23637/ERADOC-1-193>

## GARDEN CLOVER

### MANOR GARDEN

(R/GC/8)

In 1968, after a number of tests in the period 1854-1967 (*Details 1967*), the area was divided into four to test all combinations of:

Nitrogen      0 v. 126 kg N per cut  
Magnesium    0 v. 112 kg Mg per annum

N as 'Nitro-Chalk 21', Mg as Epsom Salts ( $\text{MgSO}_4 \cdot 7\text{H}_2\text{O}$ ), half in winter, half in summer.

In 1973, these tests being completed, a corrective dressing of Mg was applied to plots which had not previously received any and the whole area received basal N, P, K, Mg.

#### Basal manuring

1968-73                      33 kg P, 125 kg K as (0-14-28) in winter, 62 kg K as muriate of potash, after each cut except the last.  
and in 1973 only            130 kg N per cut, 110 kg Mg as Epsom Salts (half in winter after digging, half after first cut) in addition to corrective Mg.

#### Corrective Magnesium 1973

500 kg Mg as Epsom salts: 335 kg before digging in winter, 110 kg in winter after digging, 55 kg after first cut.

#### Liming 1973

Plots 2 and 4 (those receiving N1 1968-72) 2.5 t calcium carbonate as ground chalk, half before and half after digging.

Plots 1 and 3 (N0) 1.7 t calcium carbonate applied as above.

#### Cropping

The S 123 red clover sown in 1967 was retained in 1968, each year thereafter a fresh seeding of English Broad Red Clover was made in April. Two cuts were taken in 1968 and three each year subsequently.

#### Area harvested

0.00007 – 0.00010

Soil series.      Disturbed soil

#### Rothamsted Garden Clover

Yield of dry matter (t) 1968-72

	--	N -	- Mg	NMg	Mean
1968	—	—	4.35	3.95	—
1969	3.14	3.16	2.38	3.00	2.92
1970	3.99	3.56	4.87	5.47	4.47
1971	4.74	6.36	7.11	6.81	6.25
1972	3.14	3.58	4.62	5.47	4.20
Mean	3.75	4.17	4.75	5.19	4.46