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Yields of the Field Experiments 1973

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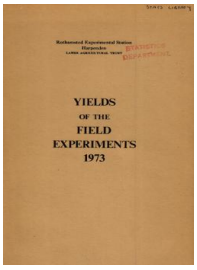

73/R/GC/8 - Garden Clover - Clover

Rothamsted Research

Rothamsted Research (1974) *73/R/GC/8 - Garden Clover - Clover ;* Yields Of The Field Experiments 1973, pp 51 - 52 **- DOI: https://doi.org/10.23637/ERADOC-1-98**

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73/R/GC/8

GARDEN CLOVER

Object: To study yields and pathogens of red clover grown continuously - Manor Garden.

The 120th year, red clover.

For previous years see 'Details' 1967, 68/A/8(t) and 69-72/R/GC/8.

Whole plot dimensions: 2.13 x 3.05. Area harvested: 0.00009.

Treatments: Residual effects of fertilisers applied in previous years. All combinations of:-

1. Nitrogen fertiliser (kg N per cut 1967-72): NPERCUT(72)

0	0
126	126

2. Magnesium fertiliser (kg Mg/annum 1968-72): MG(72)

0	0
112	112

NOTES: (1) Plots which had not previously received magnesium were given a corrective dressing of Mg at 500 kg as Epsom salts. The dressing was divided: 335 kg dug down in winter, 110 kg on surface in winter and 55 kg after the first cut.

(2) Plots which previously received nitrogen fertiliser were given a corrective dressing of $CaCO_3$ at 0.8 tonnes as ground chalk. The dressing was divided, half dug down in winter and half on the surface.

Basal applications: Manures: (0:14:28) at 540 kg in winter. K_2O at 75 kg, as muriate of potash, after each cut except the last. Mg at 110 kg, as Epsom salts, in addition to corrective Mg, half in winter, half after first cut. N at 130 kg, as 'Nitro-Chalk', in spring and after each cut except the last. $CaCO_3$ at 1.7 tonnes, as ground chalk, in addition to corrective $CaCO_3$, half dug down in winter and half on the surface.

Seed: English Leafy Broad Red sown at 34 kg.

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Cultivations, etc.:- Area hand dug, all plants removed: 13 Oct, 1972. Half corrective and basal $CaCO_3$, part corrective Mg applied, plots hand dug, remaining half $CaCO_3$, part corrective Mg, basal Mg and basal winter PK applied: 9 Mar, 1973. Area raked down to seedbed, seed sown, basal N applied: 6 Apr. Cut, basal Mg, part corrective Mg, basal K and basal N applied: 24 July. Cut, basal K and basal N applied: 2 Sept. Cut: 4 Oct.

NOTE: Samples of herbage were taken for determinations of N, P, K, Ca, Na and Mg.

TABLES OF MEANS

DRY MATTER: TONNES/HECTARE

NPERCUT(72)	0		126		
MG(72)	0	112	0	112	Mean
1st cut	2.78	2.18	3.09	2.35	2.60
2nd cut	1.93	2.29	2.10	1.97	2.07
3rd cut	0.76	0.82	1.01	0.89	0.87
Total of 3 cuts	5.47	5.29	6.19	5.21	5.54

Mean D.M. %	1st cut	14.0
	2nd cut	18.5
	3rd cut	17.2
	Total of 3 cuts	16.6

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