

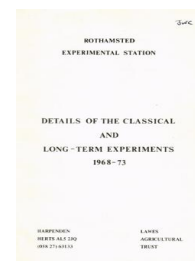
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Details of the Classical and Long-term Experiments 1968-73

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R/CS/14 N P K to Old Grass - Grass

Rothamsted Research

Rothamsted Research (1977) *R/CS/14 N P K to Old Grass - Grass* ; Details Of The Classical And Long-Term Experiments 1968-73, pp 74 - 75 - DOI: <https://doi.org/10.23637/ERADOC-1-193>

NPK TO OLD GRASS ROTHAMSTED PARK GRASS

(R/CS/14)

This experiment, started in 1965, studies the effects of a range of P and K levels on yields of permanent pasture and is located on Park Grass plots 5/1 and 5/2 which provide sites with little and much P and K respectively.

Design

On each site a single replicate of 2 x 4 x 4 in 2 blocks of 16 plots each, with 2 x 2 additional plots in each block.

Treatments

- (1) The sites differ in previous history:

Plot 5/1:	1856-97	96 kg N annually
	1898-1964	Unmanured
Plots 5/2:	1856-97	96 kg N annually
	1898-1964	Superphosphate and sulphate of potash to supply 34 kg P and 224 kg K annually.
- (2) On each site all combinations of:
 - (a) Nitrogen fertiliser (kg N for each cut)

	N1	N2
1965	37.5	75
1966	56.0	112
1967-73	33.6	67.2
 - (b) Phosphate (Kg P) annually as superphosphate

P0	None
P1	16.8
P2	33.6
P4	67.2
 - (c) Potassium (kg K) annually as potassium chloride

K0	None
K2	112
K4	224
K8	448
- (3) Together with extra treatments on each site: all combinations of:
 - (a) nitrogen fertiliser as 2(a)
 - (b) residues of PK fertiliser applied 1965 only

33.6 kg P + 56.1 kg K
33.6 kg P + 336 kg K

Number of nitrogen applications have been:

1965	4
1966	3
1967	5/1 - 3; 5/2 - 4
1968 & 1969	3

1970 & 1971	2
1972	3
1973	3

Liming

Ground chalk applied (t/ha)

1965:	Plot 5/1 – 12.8	plot 5/2 – 11.5
1968:	Plot 5/1 – 6.2	plot 5/2 – 5.5
1970:	Both plots – 8.8	

Area harvested 0.00085 – 0.00090

Soil series Batcombe series