



Park Grass experiment plan and treatments 1856-1902

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Prepared by: M.J. Glendining, CAS Department, Rothamsted Research, Harpenden, Herts, AL5 2JQ, UK.

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Description: Standardised experiment plan for the Park Grass experiment 1856-1902, with details of lime, fertilizer and manure treatments (not to scale).

- **Page 1:** Cover page
- **Page 2:** Experiment plan with plot names, lime, fertilizer and manure treatments 1856-1902

Site: R/PG/5. Park Grass, Rothamsted Experimental Farm, Rothamsted Research, West Common, Harpenden, Hertfordshire, AL5 2JQ, UK. Geolocation: 51.803812, -0.372097

Related Resources:

- Warren R.G. and Johnston A.E. (1964) *The Park Grass Experiment*, Rothamsted Annual Report for 1963, pp240-262 [10.23637/ERADOC-1-56](https://doi.org/10.23637/ERADOC-1-56)
- Rothamsted Research (2010) *Park Grass experiment plan and treatments, 1903-1964*. *Electronic Rothamsted Archive, Rothamsted Research*. [10.23637/rpg5-plan1903-1964-01](https://doi.org/10.23637/rpg5-plan1903-1964-01)
- Rothamsted Research (2021) *Park Grass experiment plan and treatments since 1965, updated 2018*. *Electronic Rothamsted Archive, Rothamsted Research*. [10.23637/rpg5-plan1965-01](https://doi.org/10.23637/rpg5-plan1965-01)

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The Park Grass Experiment Plot layout and treatments 1856 - 1902

Plot treatments

(per hectare per year unless indicated)

Nitrogen (applied in spring)

N1, N2, N3, N4: ammonium sulphate supplying

48, 96, 144, 192 kg N and 55, 110, 165, 220 kg S

N*1, N*2: sodium nitrate supplying

48, 96 kg N and 78, 157 kg Na

N\$1: Potassium nitrate supplying 48 kg N and 130 kg K

Minerals (applied in winter)

P: triple superphosphate supplying 35 kg P

K: potassium sulphate supplying 225 kg K

and 99 kg S (135 kg K and 60 kg S to 1878)

Na: sodium sulphate supplying 15 kg Na

and 10 kg S (30 kg Na and 10 kg S 1856-63)

Na* sodium sulphate supplying 38 kg Na

and 25 kg S 1864-1904

Mg: magnesium sulphate (Epsom salts)

supplying 10 kg Mg and 13 kg S

Si: water soluble sodium silicate supplying

135 kg Si and 63 kg Na

Plot 18: amount of N, P, K, Na, Mg and Si in 1 tonne of hay, c. 39 kg N

Organic manures:

FYM: 35 t farmyard manure supplying

c. 240 kg N, 45 kg P, 350 kg K,

25 kg Na, 25 kg Mg, 40 kg S, 135 kg Ca

Straw: 2.24 t cut wheat straw

Sawdust: 2.26 t sawdust

For more details see 'Fertilizer Treatments 1856 to the present'

For details of lime applications, see lime/chalk table.

Plots 1-13 started in 1856, plots 14-17 in 1858, plot 18 in 1865 and plots 19 and 20 in 1872.

Plots range in size from 0.05 to 0.20 ha

