

## Park Grass experiment plan and treatments 1856-1902

**DOI:** 10.23637/rpg5-plan1856-1902-01

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Published by: Rothamsted Research

Date: January 2010

**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
- Rothamsted Research (2010) Park Grass experiment plan and treatments, 1903-1964.
  Electronic Rothamsted Archive, Rothamsted Research. 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/rpg5plan1965-01

**Cite as**: Rothamsted Research (2010) *Park Grass experiment plan and treatments 1856-1902. Electronic Rothamsted Archive, Rothamsted Research.* 10.23637/rpg5-plan1856-1902-01

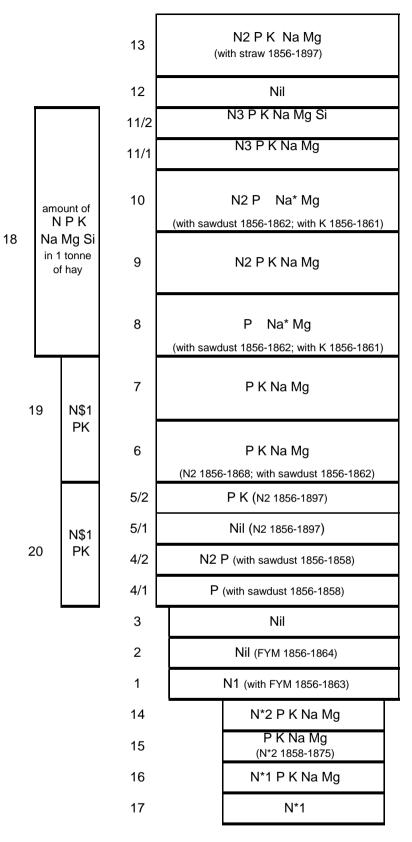
**Funding:** Rothamsted Research receives strategic funding from the UK Biotechnology and Biological Sciences Research Council (BBSRC). The Rothamsted Long-term Experiments National Capability is supported by the BBSRC Grant BBS/E/C/000J0300 and the Lawes Agricultural Trust.

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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

