



Park Grass experiment plan and treatments 1903-1964

ROTHAMSTED
RESEARCH

DOI: [10.23637/rpg5-plan1903-1964-01](https://doi.org/10.23637/rpg5-plan1903-1964-01)

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

Published by: Rothamsted Research

Date: January 2010

Description: Standardised experiment plan for the Park Grass experiment 1903-1964, 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 1903-1964

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, 1856-1902. Electronic Rothamsted Archive, Rothamsted Research.* [10.23637/rpg5-plan1856-1902-01](https://doi.org/10.23637/rpg5-plan1856-1902-01)
- 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)

Cite as: 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)

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.

Licence and conditions of re-use:



These plans are published under [the Creative Commons Attribution 4.0 International](https://creativecommons.org/licenses/by/4.0/) licence. CC BY 4.00

You are free to adapt, copy, redistribute these plans but must provide appropriate credit using the provided citation, including the DOI and indicate any changes made. You must not apply additional restrictions on the licence.

**The Park Grass Experiment
Plot layout and treatments 1903 - 1964**

Plot treatments

(per hectare per year unless indicated)

Nitrogen (applied in spring)

N1, N2, N3 : ammonium sulphate supplying 48, 96, 144 kg N and 55, 110, 165 kg S

N*, N*1, N*2: sodium nitrate supplying 30, 48, 96 kg N and 49, 78, 157 kg Na

Minerals (applied in winter)

P: triple superphosphate supplying 35 kg P

K: potassium sulphate supplying 225 kg K and 99 kg S

Na: sodium sulphate supplying 15 kg Na and 10 kg S

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 20: In years when FYM is not applied: 30 kg N*, 15 kg P, 45 kg K

Organic manures: (applied every 4th year)

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
Applied once every 4 years since 1905

Fishmeal: Applied once every 4 years since 1907 supplying c. 63 kg N

Lime: A liming scheme was started in

most plots from 1903, see lime/chalk table

L = limed, U = unlimed

HL = heavy lime, LL = light lime

Sub-plots range in size from 0.02 to 0.10 ha

