

Park Grass experiment plan and treatments 1903-1964

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**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 <u>10.23637/ERADOC-1-56</u>
- Rothamsted Research (2010) *Park Grass experiment plan and treatments, 1856-1902. Electronic Rothamsted Archive, Rothamsted Research.* <u>10.23637/rpg5-plan1856-1902-01</u>
- Rothamsted Research (2021) *Park Grass experiment plan and treatments since 1965, updated 2018. Electronic Rothamsted Archive, Rothamsted Research.* <u>10.23637/rpg5-plan1965-01</u>

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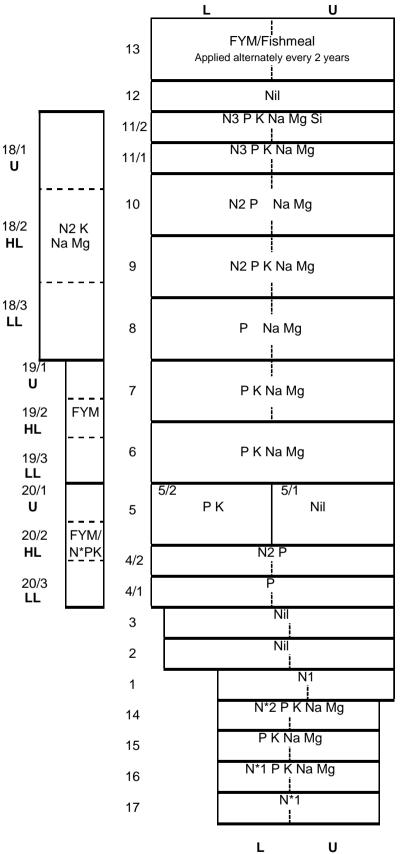
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#### The Park Grass Experiment Plot layout and treatments 1903 - 1964

#### **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 = unlimedHL = heavy lime, LL = light lime

Sub-plots range in size from 0.02 to 0.10 ha

