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Hoosfield spring barley experiment plan and fertilizer treatments 1852-1967

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Description: Standardised experiment plan for the Hoosfield spring barley experiment, 1852-1967, with details of fertilizer and manure treatments (not to scale).

- **Page 1:** Cover page
- **Pages 2-3:** Experiment plan and fertilizer treatments, 1852-1967

Site: R/HB/2. Hoosfield, Rothamsted Experimental Farm, Rothamsted Research, West Common, Harpenden, Hertfordshire, AL5 2JQ, UK. Geolocation: 51.81206, -0.37608

Related Resources:

- Rothamsted Experimental Station (1970): *Details of the Classical and Long-term Experiments up to 1967*, pp18-21. <https://doi.org/10.23637/ERADOC-1-192>
- Rothamsted Research (2015) *Hoosfield spring barley experiment plans and fertilizer treatments, 1968-2000*. *Electronic Rothamsted Archive, Rothamsted Research*. [10.23637/rhb2-plans1968-2000-01](https://doi.org/10.23637/rhb2-plans1968-2000-01)
- Rothamsted Research (2009) *Hoosfield spring barley experiment plan and fertilizer treatments, 2001 onwards*. *Electronic Rothamsted Archive, Rothamsted Research*. [10.23637/rhb2-plan2001-01](https://doi.org/10.23637/rhb2-plan2001-01)

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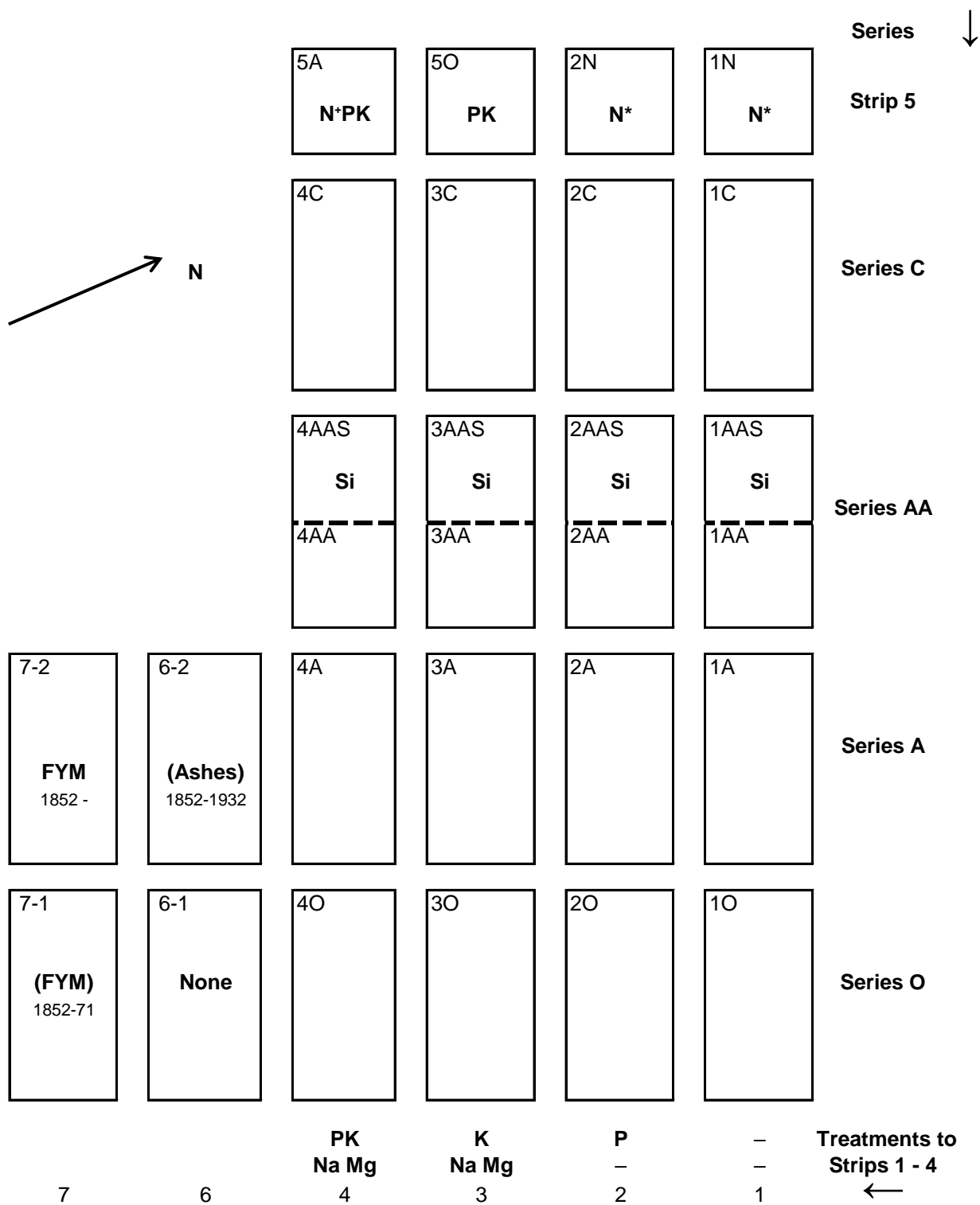
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Hoosfield spring barley 1852 - 1967



Hoosfield treatments 1852-1967

Fertilizer treatments (per hectare per year unless indicated)

Nitrogen (applied in the spring)

Series O	No N fertilizer
Series A	48kg N as ammonium sulphate
Series AA	48kg N as sodium nitrate
Series C	48kg N as castor bean meal since 1941; rape cake 1852-1940
N*	48kg N as sodium nitrate
N ⁺	48kg N as ammonium sulphate

Series treatments applied to strips 1-4 only. Not applied to strips 6 and 7

Organics (applied in the spring)

FYM 1852 -	35t Farmyard manure since 1852
(FYM) 1852-71	35t Farmyard manure, 1852-1871 only

Minerals (applied in the spring)

P	35kg P as superphosphate
K	90kg K as potassium sulphate
Na	15kg Na as sodium sulphate
Mg	11kg Mg as magnesium sulphate
Si	450kg sodium silicate since 1868; 450kg calcium silicate and sodium silicate 1862-67

(Ashes) Ashes were added to minerals to aid spreading, 1852-1932 only

Lime:

Lime has been applied as required since the 1950s to maintain soil pH at a level that does not compromise yield. For more details see 'Details up to 1967'.

Notes:

A combined yield is given for plots 7-1 and 7-2 1852-1871.
From 1872 onwards, plots 7-1 and 7-2 are harvested separately.

Cropping:

Spring barley grown every year except 1912, 1933, 1943 and 1967
when the whole experiment was fallowed to control weeds.

Reference:

Rothamsted Experimental Station (1970). *Details of the Classical and Long-term experiments up to 1967*. Lawes Agricultural Trust, Harpenden, UK
<https://doi.org/10.23637/ERADOC-1-192>