

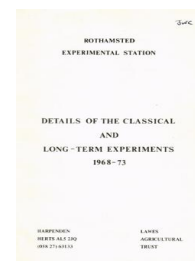
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ROTHAMSTED  
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## Details of the Classical and Long-term Experiments 1968-73

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### R/CS/24 P K to Take-all - Barley

#### Rothamsted Research

Rothamsted Research (1977) *R/CS/24 P K to Take-all - Barley* ; Details Of The Classical And Long-Term Experiments 1968-73, pp 76 - 77 - DOI: <https://doi.org/10.23637/ERADOC-1-193>

**PK AND TAKE-ALL**  
**ROTHAMSTED WEST BARNFIELD II**  
(R/CS/24)

This experiment, started in 1968, is designed to study the effects of different amounts of phosphate and potash on the yield and incidence of soil-borne diseases, particularly take-all (*Gaeumannomyces graminis*) in continuous cereals (barley until 1973).

**Design**

1968-69: 5 x 2, in 4 randomised blocks of 10 plots  
1970- 5 x 2 x 4 in 4 blocks of 10 plots split into two for N.

**Treatments**

All combinations of:

Whole plots (a) Phosphate (kg P<sub>2</sub>O<sub>5</sub>) as superphosphate  
None  
38 annually to seedbed  
150  
226 Six-yearly, last applied autumn 1967, half  
904 before ploughing, half after  
(b) Potash (kg K<sub>2</sub>O) as muriate of potash  
37.5  
150 annually to seedbed

**NOTE:** Rates of P and K have been slightly changed from 1974

From 1970.

Sub-plots (c) Nitrogen (kg N) applied cumulatively in successive years  
38  
75  
113  
150

**Basal applications**

Nitrogen: 1968 & 1969 100 kg N

**Liming**

1969 2.9 t ground chalk  
1972 5.0 t ground chalk

**Weedkillers**

1968 & 1969, Paraquat applied to stubble in  
1971-73 previous autumn  
1968 Aminotriazole with ammonium thiocyanate in previous  
autumn  
1969 & 1970 2,4-D with dichlorprop  
1971 Ioxynil, bromoxynil with dichlorprop  
1972 Ioxynil, bromoxynil, dichlorprop with MCPA  
1973 Dicamba, mecoprop with MCPA

**Varieties**

1968 & 1969	Maris Badger
1970-73	Julia

**Areas harvested**

1968 & 1969	0.00567
1970	0.00264 – 0.00273

**Soil series**

Hook series