

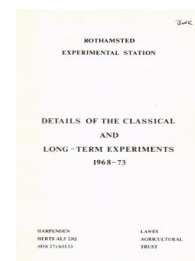
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Details of the Classical and Long-term Experiments 1968-73

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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 P₂O₅) as superphosphate
None
38 annually to seedbed
150
226 Six-yearly, last applied autumn 1967, half
904 before ploughing, half after
(b) Potash (kg K₂O) 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