

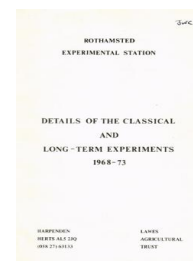
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## Details of the Classical and Long-term Experiments 1968-73

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### R/CS/10 and W/CS/10 Long-term Liming - Potatoes, Barley

#### Rothamsted Research

Rothamsted Research (1977) *R/CS/10 and W/CS/10 Long-term Liming - Potatoes, Barley* ; Details Of The Classical And Long-Term Experiments 1968-73, pp 70 - 71 - **DOI:**  
**<https://doi.org/10.23637/ERADOC-1-193>**

**LONG-TERM LIMING**  
**ROTHAMSTED (R) SAWYERS I**  
**WOBURN (W) STACKYARD SERIES C**  
**(R & W/CS/10)**

These experiments have continued on the lines set out in *Details 1967*, pp. 95-96.

The cropping has been:

1968	Potatoes	Majestic
1969	Fallow	
1970-73	Barley	Julia (dressed with ethirimol 1972 & 1973)

**Treatments**

(a) No lime was applied 1968-73.

Ground chalk: total applied 1962 and 1963 (tonnes CaCO<sub>3</sub>)

	Rothamsted	Woburn
	None	None
	5	5
	10	12
	20	19

(b) Phosphate: 1968 0 v. 126 kg P<sub>2</sub>O<sub>5</sub> as superphosphate  
 1970-73 0 v. 63 kg P<sub>2</sub>O<sub>5</sub> as superphosphate

(c) Potash: 1968 0 v. 188 kg K<sub>2</sub>O as muriate of potash  
 1970-73 0 v. 126 kg K<sub>2</sub>O as muriate of potash

P and K were applied cumulatively from 1962

No treatments were applied to the fallow in 1969

**Basal applications**

Nitrogen

1968	Rothamsted	188 kg N	broadcast before planting
	Woburn	251 kg N	
1970-73	Rothamsted	95 kg N	combine drilled broadcast before planting
	Woburn	126 kg N	

**Weedkillers**

Potatoes:	1968 (R) & (W)	Paraquat with linuron
Barley:	1970 (R)	2,4-D with dichlorprop
	(W)	Ioxynil with mecoprop
	1971 (R)	Ioxynil, bromoxynil with dichlorprop
	(W)	Paraquat, Ioxynil with mecoprop
	1972 (R)	Paraquat, Ioxynil, bromoxynil, dichlorprop and MCPA
	(W)	Paraquat
	1973 (R)	Dicamba with mecoprop and MCPA
	(W)	Ioxynil with mecoprop

**Other chemicals applied**

Potatoes:	1968 (R) & (W)	Mancozeb and demeton-S-methyl. Haulm burnt off with sulphuric acid.
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**Areas harvested**

1968 (R)	0.00384
(W)	0.00510
1970-73 (R)	0.00512 – 0.00518
(W)	0.00516 – 0.00520

**Soil series.**

- (R) Batcombe series with sandier variants.  
(W) Cottenham series.

**References**

1. Bolton, J. (1971)  
Long term liming experiments at Rothamsted and Woburn.  
*Rothamsted Experimental Station. Report for 1970, Part 2, 98-112.*