

Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Numerical Results of the Field Experiments 1969

[Full Table of Content](#)



69/R/P/2 - Chemicals & Seed-borne Fungi - Potatoes

Rothamsted Research

Rothamsted Research (1970) *69/R/P/2 - Chemicals & Seed-borne Fungi - Potatoes* ; Numerical Results Of The Field Experiments 1969, pp 301 - 303 - **DOI:**

<https://doi.org/10.23637/ERADOC-1-96>

POTATOES

(69/R/P/2)

Chemicals and seed-borne fungi, Great Knott III 1969.

Design: 4 randomised blocks of 16 plots.

Area of each plot: 0.0036. Area harvested: 0.0036.

Treatments: All combinations of:-

1. Seed treatment with chemicals: Benomyl powder (B), thiabendazole powder (T).
2. Rates of application (R1, R2 and R3 as below): Diluted with kaolin dust to give:-
 B treatment: 1% (1), 10% (2), 30% (3) a.i.
 T treatment: 0.1% (1), 1.0% (2), 10% (3) a.i.
3. Time of application: 13 Feb, 1969 (E), 18 Apr (L).
 Together with additional seed treatments:
 None (O)
 Demosan powder, diluted with kaolin dust to give 10% a.i. Applied on 18 Apr. (DL)
 Agallol, 0.5% solution as 1 minute dip in autumn (A)
 Kaolin dust, applied on 18 Apr. (KL)

NOTE: All dust treatments were at 10 lb per ton of seed potatoes.

Basal applications: 10.5 cwt (13:13:20). Weedkiller: Paraquat at 0.375 lb ion plus linuron at 0.75 lb in 37 gals. Fungicide: Mancozeb at 1.2 lb in 37 gals on 3 occasions. Insecticide: Demeton-s-methyl at 3.5 oz applied with first spray of mancozeb.

Cultivations, etc: Rotary cultivated twice: 13-23 Sept, 21 Oct, 1968. Ploughed: 30 Dec-22 Jan, 1969. Basal NPK applied: 10 Apr. Plots rotary cultivated, potatoes machine planted: 21 Apr. Weedkiller applied: 20 May. Insecticide applied: 16 July. Fungicide applied: 16 July, 4 Aug, 21 Aug. Sprayed with undiluted BOV at 15 gals: 26 Sept. Haulm destroyed mechanically: 2 Oct. Lifted: 7 Oct. Variety: King Edward. Previous crops: Barley 1967, spring beans 1968.

Standard error per plot.

Total tubers, tons: 1.226 or 8.5% (33 d.f.)

SUMMARY OF RESULTS

TOTAL TUBERS: TONS

	R1	R2	R3	E	L	Mean
	(±0.434)			(±0.354)		(±0.250)
B	15.74	15.22	13.94	15.98	13.95	14.97
T	14.55	14.14	12.89	15.67	12.06	13.86
				(±0.434)		(±0.307)
R1				16.39	13.89	15.14
R2				15.73	13.63	14.68
R3				15.36	11.48	13.42
Mean (±0.250)				15.83	13.00	14.41

	B		T	
	E	L	E	L
	(±0.613)			
R1	17.00	14.47	15.78	13.31
R2	15.96	14.48	15.51	12.78
R3	14.99	12.89	15.72	10.07
	Q	16.58		
	DL	10.51		
	A	15.91	(±0.613)	
	KL	14.26		

% WARE						
	R1	R2	R3	E	L	Mean
B	68.6	68.1	64.1	68.4	65.4	66.9
T	72.5	72.6	70.5	73.1	70.7	71.9
R1				70.1	71.0	70.5
R2				71.9	68.8	70.4
R3				70.3	64.3	67.3
Mean				70.8	68.0	69.4

	B		T	
	E	L	E	L
R1	68.9	68.3	71.3	73.7
R2	70.1	66.1	73.8	71.5
R3	66.3	61.9	74.2	66.8
O				
DL				
A				
KL				