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Numerical Results of the Field Experiments 1969

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

Rothamsted Research

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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

O	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 79.6
 DL 70.7
 A 69.0
 KL 73.1