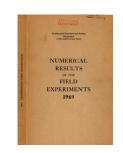
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Numerical Results of the Field Experiments 1969



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

Rothamsted Research

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

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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:-

- 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 (0)

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.)

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SUMMARY OF RESULTS

TOTAL TUBERS: TONS

	R1	R2	R3	E	L	Mean	
		(±0.434)		(±0.	354)	(±0,250)	
B T	15.74 14.55	15.22 14.14		15.98 15.67		14.97 13.86	
				(±0.	434)	(±0.307)	
R1 R2 R3				16.39 15.73 15.36	13.63	15.14 14.68 13.42	
Mean (±0.250)				15.83	13.00	14.41	
	В				T		
	E	L		E	L		
		(±0.613)				
R1. R2 R3	17.00 15.96 14.99	14.47 14.48 12.89		15.78 15.51 15.72	12.78		
	O DL A KL	16. 10. 15. 14.	51 91	(±0.613)		

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% WARE

	R 1 .	R2	R3	Е	L	Mean
B T	68.6 72.5	68.1 72.6	64 .1 70 . 5	68.4 73.1	65.4 70.7	66.9 71.9
R 1. R2 R3	40 - Fa			70.1 71.9 70.3	71.0 68.8 64.3	70.5 70.4 67.3
Mean				70.8	68.0	69.4

	В			T		
	E	L	Е	L		
R1 R2 R3	68.9 70.1 66.3	68.3 66.1 61.9	71.3 73.8 74.2	73.7 71.5 66.8		
	O DL A KL	69	9.6 9.7 9.0 3.1			