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Numerical Results of the Field Experiments 1968

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68/DE/8 Chemicals and Seed-borne Fungi - Potatoes

Rothamsted Research

Rothamsted Research (1970) *68/DE/8 Chemicals and Seed-borne Fungi - Potatoes* ; Numerical Results Of The Field Experiments 1968, pp 355 - 356 - **DOI:**

<https://doi.org/10.23637/ERADOC-1-58>

68/De/8.1

POTATOES

(RP 8/1)

Chemicals and seed-borne fungi - Long Hoos I and II 1968.

Design: 3 randomised blocks of 16 plots.

Area of each plot: 0.0033. Area harvested: 0.0033.

Treatments: None (O)

Seed treated in autumn:

Chemical	Percentage		
Agallol	0.5	Solution	(A)
Aardisan	0.5	Solution	(B)
Thiabendazole lactate (S4)	0.1	Solution	(C)
Thiabendazole lactate (S4)	0.01	Solution	(D)
Thiabendazole (W7)	0.1	Solution	(E)
Aardisol	2.0	Solution	(F)
Aretanol	2.0	Solution	(G)
Trametan	50.0	Dust	(H)
Vitavax	0.45	Suspension	(J)
Plantvax	0.45	Suspension	(K)
Polyram	7.0	Dust	(L)

Seed treated in spring (April) with 10 per cent dusts of the following chemicals:

Plantvax	(M)
Vitavax	(N)
F 849	(P)
EF 1991	(Q)

NOTE: Dusts were applied at 10 lb per ton of seed, the solutions and suspensions by immersing the seed tubers for 5 minutes. In the cases of Agallol and Aardisan the time of immersion was 45 seconds. The seed rate was approximately one ton per acre.

Basal applications: 10 cwt (13:13:20). Weedkiller: Paraquat at 0.38 lb ion plus linuron at 0.75 lb in 36 gals. Fungicide: Mancozeb at 1.2 lb in 37 gals on 3 occasions. Insecticide: Demeton-s-methyl at 3.5 oz applied with mancozeb on one occasion.

Cultivations, etc.: Deep-tine cultivated twice: 2 Oct, 1967. Ploughed: 4 - 23 Jan, 1968. Basal NPK compound applied: 14 Mar. Rotary cultivated, potatoes machine planted: 8 Apr. Weedkiller applied: 4 May. Grubbed and rotary ridged: 17 June. Mancozeb applied: 4 July. Mancozeb and demeton-s-methyl applied: 19 July. Mancozeb applied: 5 Aug. Sprayed with undiluted BOV at 15 gals: 31 Aug. Lifted: 15 Oct. Variety: King Edward. Previous crops: Lucerne and cocksfoot 1966, fallow 1967.

NOTE: Emergence counts were made.

Standard error per plot.

Total tubers: 1.021 or 5.6% (30 d.f.)

68/De/8.2

SUMMARY OF RESULTS

	TOTAL TUBERS	% WARE
	(± 0.590)	
O	18.51	95.3
A	16.86	94.5
B	19.27	94.6
C	20.59	96.2
D	20.16	95.9
E	18.26	95.0
F	17.30	95.5
G	16.72	95.5
H	19.85	95.5
J	18.61	95.6
K	19.64	95.5
L	20.04	95.3
M	14.59	94.5
N	16.33	96.0
P	16.15	97.0
Q	18.39	95.8
Mean	18.20	95.5