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Numerical Results of the Field Experiments 1968

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68/DE/2 Effects of Gangrene (Phoma Spp.) - Potatoes

Rothamsted Research

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68/De/2.1

POTATOES

(RP 2/1)

Effects of gangrene (*Phoma* spp.) - Long Hoos I and II, 1968.

Design: 6 blocks of 2 plots split into 4.

Area of each plot: 0.0067. Area harvested: 0.0033.

Treatments: All combinations of:-

Sub blocks: 1. Varieties: King Edward (KE), Majestic (M).

Plots: 2. Levels of seed infection (Gangrene): Clean (A),
moderately infected (B), severely infected (C),
unselected stock (D).

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 in 37 gals 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.

Plots rotary cultivated, potatoes machine planted: 11 Apr.

Weedkiller applied: 4 May. Plots 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: 14 Oct. Previous crops:

Lucerne and cocksfoot 1966, fallow 1967.

NOTE: Emergence counts were made on 20 May and 13 June. After
burning off and prior to lifting, counts were made of
stem and plant number.

Standard errors per plot. Total tubers:

Whole plot: 0.726 or 4.6% (5 d.f.)

Sub plot: 0.955 or 6.1% (30 d.f.)

68/De/2.2

SUMMARY OF RESULTS

	A	B	C	D	Mean
	TOTAL TUBERS				
	(1) and (2)				(±0.296)
KE	18.08	16.55	12.91	13.80	15.34
M	17.66	16.09	13.57	16.58	15.98
Mean (±0.276)	17.87	16.32	13.24	15.19	15.66

(1) (±0.449) For use in vertical and diagonal comparisons

(2) (±0.390) For use in horizontal and interaction comparisons

	% WARE				
KE	96.5	94.7	95.2	95.2	95.4
M	98.3	97.6	96.6	97.8	97.6
Mean	97.4	96.1	95.9	96.5	96.5