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Numerical Results of the Field Experiments 1968

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68/DE/4 Effects of Skin-spot (*Oospora Pustulans*) - Potatoes

Rothamsted Research

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68/De/4.1

POTATOES

(RP 4/1)

Effects of skin-spot (*Oospora pustulans*) - Long Hoos I and II, 1968.

Design: 6 blocks of 2 plots split into 4.

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

Treatments: All combinations of:-

- Whole plots: 1. Varieties: King Edward (KE), Majestic (M).
Sub-Plots: 2. Levels of seed infection (*Oospora pustulans*):
Clean (A), moderately infected (B), severely infected (C), unselected stock (D). B and C were assessed by area covered by skin-spots.

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 applied: 14 Mar.
Plots rotary cultivated, potatoes machine planted: 9 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.
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 lifttting, counnn

68/De/4.2

SUMMARY OF RESULTS

	A	B	C	D	Mean
TOTAL TUBERS					
(1) and (2)					
					(± 0.153)
KE	21.46	19.80	17.01	20.08	19.59
M	17.24	17.17	13.18	15.73	15.83
Mean (± 0.292)	19.35	18.49	15.10	17.90	17.71

(1) (± 0.389) For use in vertical and diagonal comparisons only(2) (± 0.413) For use in horizontal and interaction comparisons only

	% WARE				
KE	96.9	97.2	97.8	96.9	97.2
M	98.0	98.0	97.9	97.6	97.9
Mean	97.4	97.6	97.8	97.3	97.5