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Numerical Results of the Field Experiments 1968

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68/DE/9 Effects of Aphids - Potatoes

Rothamsted Research

Rothamsted Research (1970) *68/DE/9 Effects of Aphids - Potatoes* ; Numerical Results Of The Field Experiments 1968, pp 357 - 358 - DOI: <https://doi.org/10.23637/ERADOC-1-58>

68/De/9.1

POTATOES

(RP 10/1)

Effects of aphids - Great Harpenden II 1968.

Design: 4 x 4 Latin square.

Area of each plot: 0.0274. Area harvested: 0.0035.

Treatments: All combinations of:-

1. Insecticide applied early: None (0), 1.5 lb phorate as granules applied at planting (E).
2. Insecticide applied late: None (0), sprayed with demeton-s-methyl at 3.5 oz in 37 gals on 5 July (L).

Basal applications: 3 tons ground chalk, 7 tons FYM, 8 cwt (13:13:20). Weedkiller: Paraquat at 0.5 lb ion and linuron at 0.75 lb in 36 gals. Fungicide: Mancozeb at 1.2 lb in 37 gals on 3 occasions.

Cultivations, etc.: FYM applied: 8 Dec, 1967. Chalk applied, plots ploughed: 20 Dec. Basal NPK compound applied: 20 Mar, 1968. Plots rotary cultivated, potatoes machine planted: 11 Apr. Weedkiller applied: 4 May. Rotary ridged: 10 June. Mancozeb applied: 5 July, 19 July, 5 Aug. Sprayed with undiluted BOV at 15 gals: 21 Aug. Lifted: 18 Oct. Variety: King Edward. Previous crops: Grass 1959 - 67.

NOTE: Aphids were counted on leaves removed from potato plants.

Standard error per plot.

Total tubers: 0.648 or 4.2% (6 d.f.)

68/De/9.2

SUMMARY OF RESULTS

	O	L	Mean
	TOTAL TUBERS (± 0.324)		(± 0.229)
O	15.53	15.55	15.54
E	15.49	15.68	15.59
Mean (± 0.229)	15.51	15.62	15.56
	% WARE		
O	95.8	96.3	96.0
E	96.1	95.1	95.6
Mean	96.0	95.7	95.8