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67/R/RP9/1/DD/8 Potatoes - Blight and Aphid Attack

Rothamsted Research

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67/Da/8.1

POTATOES

(RP 9/1)

Blight (*Phytophthora infestans*) and aphid attack - Pastures 1967.

Design: 4 blocks of 8 plots.

Area of each plot: 0.0283. Area harvested: 0.0071.

Treatments: All combinations of:-

1. Time of application of aphicide: None (O), 1.5 lb phorate applied with seed (E), sprayed with demeton-s-methyl* in July (L), 1.5 lb phorate applied with seed, sprayed with demeton-s-methyl* in July (EL).
2. Fungicide: None (O), sprayed with mancozeb at 1.2 lb in 30 gals (F).

* At 3 oz in 30 gals.

Basal applications: 10 cwt (13:13:20). Weedkiller: Linuron at 0.75 lb plus paraquat at 0.5 lb ion in 37 gals.

Cultivations, etc.: Rotary cultivated: Sept 16, 1966. Ploughed: Nov 23 - Jan 5, 1967. Basal NPK compound applied: part, Mar 3, part, Apr 17. Rotary cultivated second time, potatoes planted: Apr 18. Weedkiller applied: May 16. F plots sprayed with fungicide: June 30, July 21, Aug 3 and Aug 24. L and EL plots sprayed with demeton-s-methyl: July 21. Sprayed with undiluted BOV at 15 gals: Sept 20. Lifted: Oct 4. Variety: King Edward. Previous crops: Barley 1965, fallow 1966.

NOTE: Samples were taken throughout the season for assessment of blight (*Phytophthora infestans*) and of bulking.

Standard error per plot.

Total tubers: 1.250 or 5.8% (21 d.f.)

67/Dd/8.2

SUMMARY OF RESULTS

	O	E	L	EL	Mean
TOTAL TUBERS					
	(±0.625)				(±0.313)
O	19.78	20.11	20.02	19.57	19.87
F	23.99	23.71	22.63	23.32	23.41
Mean (±0.442)	21.88	21.91	21.32	21.45	21.64
% WARE					
O	92.6	92.1	92.8	91.8	92.3
F	93.2	93.4	92.4	93.2	93.0
Mean	92.9	92.8	92.6	92.5	92.7