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Yields of the Field Experiments 1967

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67/R/RP6/1/DD/5 Potatoes - Gangrene

Rothamsted Research

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67/Dd/5.1

POTATOES

(RP 6/1)

Effects of gangrene (*Phoma* spp.) - Pastures 1967.

Design: 6 blocks of 2 plots, split into 4. 3 blocks with weedkiller, 3 without (not randomised).

Area of each sub plot: 0.0071. Area harvested: 0.0033.

Treatments: All combinations of:-

Columns of

- 3 blocks: 1. Weedkiller: None, with inter-row cultivations (O), sprayed with linuron at 0.75 lb plus paraquat at 0.5 lb ion in 37 gals, no inter-row cultivation (W).
Plots: 2. Varieties: King Edward (E) Majestic (M).
Sub plots: 3. Levels of seed infection (*Phoma* spp.): Clean (A), moderately infected (B), severely infected (C), unselected stock (D).

Basal applications: 10 cwt (13:13:20). Fungicide: Mancozeb at 1.2 lb in 30 gals on four occasions.

Cultivations, etc.: - Rotary cultivated: Sept 16, 1966. Ploughed: Nov 23 - Jan 5, 1967. Basal compound fertiliser applied: Mar 30. Rotary cultivated second time, potatoes planted: Apr 19. Weedkiller applied: May 17. 'O' blocks grubbed and mechanically weeded: May 19. 'O' blocks grubbed: June 14. Fungicide applied: June 30, July 21, Aug 3, Aug 24. Sprayed with undiluted BOV at 15 gals: Sept 20. Haulm destroyed mechanically: Sept 28. Lifted: Oct 10. Previous crops: Spring wheat and barley 1965, fallow 1966.

Standard errors per plot. Total tubers:

- Whole plot: 0.557 or 2.7% (4 d.f.)
Sub plot: 1.070 or 5.2% (24 d.f.)

67/Dd/5.2

SUMMARY OF RESULTS

	E	M	A	B	C	D	Mean
TOTAL TUBERS							
	(± 0.321)*		(± 0.437)*				
O	19.04	20.94	22.94	20.01	16.96	20.06	19.99
W	20.20	22.08	23.63	21.68	18.48	20.76	21.14
			(1) and (2)				(± 0.227)
	E		22.58	19.27	17.07	19.55	19.62
	M		23.99	22.41	18.36	21.27	21.51
Mean (± 0.309)			23.29	20.84	17.72	20.41	20.56

* For use in horizontal and interaction comparisons only
 (1) (± 0.441) For use in vertical and diagonal comparisons
 (2) (± 0.437) For use in horizontal and interaction comparisons

	% WARE						
O	83.7	91.7	89.6	86.2	87.1	87.8	87.7
W	82.6	92.2	88.3	86.0	87.8	87.4	87.4
	E		84.3	81.4	83.9	82.9	83.1
	M		93.6	90.8	91.0	92.4	92.0
Mean			88.9	86.1	87.5	87.6	87.5