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Yields of the Field Experiments 1967

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67/R/RP5/1/DD/4 Potatoes - Rhizoctonia

Rothamsted Research

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67/Dd/4.1

POTATOES

(RP 5/1)

Effects of stem-canker (*Rhizoctonia solani*) - Pastures 1967.

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

Area of each sub plot: 0.0036. Area harvested: 0.0033.

Treatments: All combinations of:-

Columns of

3 blocks: 1. Weedkiller: None, with inter-row cultivation (O), sprayed with linuron at 0.75 lb and 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: 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, 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 25. Lifted: Sept 28 and Oct 5. Previous crops: Spring wheat and barley 1965, fallow 1966.

Standard errors per plot. Total tubers:

Whole plots: 0.812 or 3.8% (4 d.f.)

Sub plots: 1.866 or 8.8% (24 d.f.)

67/Dd/4.2

SUMMARY OF RESULTS

	E	M	A	B	C	D	Mean
TOTAL TUBERS							
	$(\pm 0.469)^*$		$(\pm 0.762)^*$				
O	19.36	20.63	20.35	21.24	18.30	20.09	20.00
W	22.56	22.73	23.75	22.01	22.40	22.44	22.65
			(1) and (2)				(± 0.332)
	E		21.48	21.78	19.90	20.70	20.96
	M		22.62	21.47	20.80	21.82	21.68
Mean (± 0.539)			22.05	21.62	20.35	21.26	21.32

* For use in horizontal and interaction comparisons only

(1) (± 0.738) For use in vertical and diagonal comparisons(2) (± 0.762) For use in horizontal and interaction comparisons

% WARE							
O	82.4	90.0	85.2	87.6	84.1	87.9	86.2
W	84.9	90.9	88.2	88.1	87.0	88.3	87.9
	E		84.3	84.9	80.5	84.9	83.6
	M		89.1	90.8	90.5	91.3	90.5
Mean			86.7	87.9	85.5	88.1	87.0