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Yields of the Field Experiments 1967

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67/R/RP3/1/DD/2 Potatoes - Oospora (Skin Spots)

Rothamsted Research

Rothamsted Research (1968) *67/R/RP3/1/DD/2 Potatoes - Oospora (Skin Spots)* ; Yields Of The Field Experiments 1967, pp 313 - 315 - DOI: <https://doi.org/10.23637/ERADOC-1-157>

67/Dd/2.1

POTATOES

(RP 3/1)

Effects of skin-spot (*Oospora pustulans*) - Pastures 1967.

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

Area of each sub-plot: 0.0033. 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).

Whole plots: 2. Varieties: King Edward (E), Majestic (M).

Sub plots: 3. Levels of seed infection (*Oospora pustulans*): 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 15. 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 plot: 0.855 or 4.1% (4 d.f.)

1/4 plot: 1.098 or 5.2% (24 d.f.)

67/Da/2.2

SUMMARY OF RESULTS

TOTAL TUBERS

	E	M	A	B	C	D	Mean
	$(\pm 0.494)^*$		$(\pm 0.448)^*$				
O	21.18	20.89	20.92	21.94	20.66	20.63	21.04
W	21.24	20.97	21.40	21.93	19.49	21.61	21.11
			(1) and (2)				(± 0.349)
	E		21.02	21.91	20.22	21.70	21.21
	M		21.30	21.95	19.93	20.54	20.93
Mean (± 0.317)			21.16	21.93	20.07	21.12	21.07

(1) (± 0.522) For use in vertical and diagonal comparisons

(2) (± 0.448) For use in horizontal and interaction comparisons

67/D1/2.3

% WARE

	E	M	A	B	C	D	Mean
O	87.9	91.7	89.2	89.6	91.3	89.2	89.8
W	92.1	92.6	91.2	92.4	93.5	92.4	92.4
	E		89.0	90.2	91.7	89.3	90.0
	M		91.4	91.8	93.1	92.4	92.2
Mean			90.2	91.0	92.4	90.8	91.1