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Yields of the Field Experiments 1967

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67/R/RP4/1/DD/3 Potatoes - Oospora (Dead Eyes)

Rothamsted Research

Rothamsted Research (1968) *67/R/RP4/1/DD/3 Potatoes - Oospora (Dead Eyes)* ; Yields Of The Field Experiments 1967, pp 317 - 318 - DOI: <https://doi.org/10.23637/ERADOC-1-157>

67/Da/3.1

POTATOES

(RP 4/1)

Effects of 'dead eyes' (*Oospora pustulans*) - Pastures 1967.

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

Area of each 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 and paraquat at 0.5 lb ion in 37 gals, no inter-row cultivation (W).

Plots: 2. 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 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. Variety: King Edward. Previous crops: Spring wheat and barley 1965, fallow 1966.

Standard error per plot.

Total tubers: 1.652 or 9.0% (12 d.f.)

67/Da/3.2

SUMMARY OF RESULTS

	A	B	C	D	Mean
TOTAL TUBERS					
(± 0.954)*					
O	20.52	18.67	10.70	18.76	17.16
W	22.93	21.58	11.32	22.72	19.64
Mean (± 0.675)	21.73	20.13	11.01	20.74	18.40
% WARE					
O	87.2	90.6	90.9	87.0	89.0
W	90.8	91.3	92.2	90.3	91.2
Mean	89.0	91.0	91.5	88.7	90.1

* For use in horizontal and interaction comparisons only