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Yields of the Field Experiments 1966

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66/R/RP7/1/DD/4 Potatoes - Oospora

Rothamsted Research

Rothamsted Research (1967) *66/R/RP7/1/DD/4 Potatoes - Oospora* ; Yields Of The Field Experiments 1966, pp 283 - 284 - DOI: <https://doi.org/10.23637/ERADOC-1-158>

66/Dd/4.1

POTATOES

(RP 7/1)

Effects of skin-spot (*Oospora pustulans*)* - Little Hoos 1966.

Design: 6 blocks of 2 plots split into 4.

Area of each plot: 0.0033.

Treatments: All combinations of:-

- Whole plots: 1. Varieties: King Edward (E), Majestic (M).
Sub plots: 2. Levels of seed infection (*Oospora pustulans*):
Clean (A), moderately infected (B), severely infected (C), unselected stock (D).

Basal applications: 7.75 cwt (17:11:22). Fungicide: Mancozeb
at 1.2 lb in 35 gals on 4 occasions.

Cultivations, etc.: Ploughed: Jan 12, 1966. Basal NPK applied:
Mar 30. Rotary cultivated, potatoes planted: May 3.
Rotary ridged twice: May 28, June 17. Fungicide applied:
June 30, July 23, Aug 8 and 18. Sprayed with undiluted BOV
at 21 gals: Sept 16. Haulm destroyed mechanically: Sept 27.
Lifted: Sept 29. Previous crops: Barley 1964, fallow 1965.

* In experiment RP7/1 (66/Dd/4) the tuber grades were selected on the degree of skin-spotting, in RP10/1 (66/Dd/7) a King Edward stock in which the infections occurred mainly close to the eyes was used and the grades were based on number of live eyes in March.

Standard errors per plot. Total tubers:

- Whole plot: 1.049 or 6.7% (5 d.f.)
Sub plot: 0.910 or 5.8% (30 d.f.)

66/Dd/4.2

SUMMARY OF RESULTS

	A	B	C	D	Mean
TOTAL TUBERS					
	(1) and (2)				(± 0.428)
E	17.92	17.35	12.65	16.72	16.16
M	15.52	15.59	14.66	15.38	15.29
Mean (± 0.263)	16.72	16.47	13.66	16.05	15.72
% WARE					
E	96.1	96.2	97.6	96.2	96.5
M	97.7	97.4	97.8	97.6	97.6
Mean	96.9	96.8	97.7	96.9	97.1

- (1) (± 0.536) For use in vertical and diagonal comparisons
 (2) (± 0.371) For use in horizontal and interaction comparisons.