Yields of the Field Experiments 1965

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65/R/RP301/DD/3 Potatoes - Oospora

Rothamsted Research

65/Dd/3.1

POTATOES

(RP 301)

Effects of skin-spot (Oospora pustulans) - Fosters odds and
    ends I 1965.

Design: 5 randomised blocks of 2 plots split into 4 for infection.

Area of each plot: 0.0033.

Treatments: All combinations of:-
    Whole plots: 1. Varieties: King Edward (E), Majestic (M).
    Sub plots: 2. Infection of seed (Oospora pustulans): Clean (A),
                      moderate (B), severe (C), inoculated (D).

Basal applications: 7 cwt (17:11:22). Fungicide: Mancozeb at
    1.2 lb in 37 gals on 4 occasions.

Cultivations, etc.: Ploughed: Oct 12, 1964. Basal NPK applied,
    all plots rotary cultivated, potatoes planted: Apr 13, 1965.
    Earthed up: June 14. Sprayed: June 29, July 14, July 26, Aug 9.
    Sprayed with undiluted BOV at 15 gals: Sept 2. Lifted:
    Oct 18. Previous crops: Italian Ryegrass 1963, barley 1964.

NOTE: Emergence counts were made on May 24 and June 9. Samples
    of tubers were taken at lifting to estimate the number of
    infected buds.

Standard errors per plot. Total tubers:
    Whole plot: 0.678 or 3.8% (4 d.f.)
    Sub plot: 2.218 or 12.4% (24 d.f.)

65/Dd/3.2

SUMMARY OF RESULTS

	A	B	C	D	Mean
	TOTAL TUBERS				
	(1) and (2)				(±0.303)
E	19.60	19.06	13.65	19.05	17.84
M	19.37	20.19	15.79	16.28	17.91
Mean (±0.701)	19.49	19.63	14.72	17.67	17.88
	% WARE				
E	95.8	95.4	95.7	96.2	95.8
M	97.0	97.3	97.3	97.9	97.4
Mean	96.4	96.3	96.5	97.1	96.6

(1) (±0.911) For use in vertical and diagonal comparisons
(2) (±0.992) For use in horizontal and interaction comparisons