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Yields of the Field Experiments 1965

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65/R/RP401/DD/4 Potatoes - Rhizoctonia

Rothamsted Research

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65/Dd/4.1

POTATOES

(RP 401)

Effects of stem-canker (*Rhizoctonia solani*) - Fosters odds and ends II 1965.

Design: 5 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 with *Rhizoctonia solani*:
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 16 - Nov 24, 1964. Basal NPK applied, all plots rotary cultivated, potatoes planted: Apr 13, 1965. Earthed up: June 14. Sprayed: June 28, July 14, July 26, Aug 9. Sprayed with undiluted BCV at 15 gals: Sept 2. Lifted: Oct 19. Previous crops: Alsike and white clover 1963, barley 1964.

NOTE: Emergence counts were made on May 29 and June 9, and a count of the number of plants infected with *Corticium solani* on July 9. Tubers were examined macroscopically at harvest for surface infection, and the number of buds infected was estimated.

Standard errors per plot. Total tubers:

- Whole plot: 0.896 or 5.1% (4 d.f.)
Sub plot: 1.446 or 8.2% (24 d.f.)

65/Dd/4.2

SUMMARY OF RESULTS

	A	B	C	D	Mean
TOTAL TUBERS					
	(1) and (2)				(± 0.401)
E	18.89	17.99	17.32	19.93	18.53
M	18.04	18.23	18.02	12.91	16.80
Mean (± 0.457)	18.46	18.11	17.67	16.42	17.66
% WARE					
E	95.3	95.0	93.0	96.3	94.9
M	97.4	97.6	97.2	97.2	97.4
Mean	96.4	96.3	95.1	96.8	96.1

(1) (± 0.689) For use in vertical and diagonal comparisons

(2) (± 0.647) For use in horizontal and interaction comparisons