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Yields of the Field Experiments 1965

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

Rothamsted Research

Rothamsted Research (1966) *65/R/RP301/DD/3 Potatoes - Oospora* ; Yields Of The Field Experiments 1965, pp 265 - 266 - DOI: <https://doi.org/10.23637/ERADOC-1-159>

65/Da/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/Da/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