

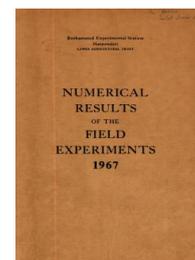
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67/R/RP6/1/DD/5 Potatoes - Gangrene

Rothamsted Research

Rothamsted Research (1968) *67/R/RP6/1/DD/5 Potatoes - Gangrene* ; Yields Of The Field Experiments 1967, pp 321 - 322 - DOI: <https://doi.org/10.23637/ERADOC-1-157>

67/Dd/5.1

POTATOES

(RP 6/1)

Effects of gangrene (*Phoma* spp.) - Pastures 1967.

Design: 6 blocks of 2 plots, split into 4. 3 blocks with weedkiller, 3 without (not randomised).

Area of each sub 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 lb plus paraquat at 0.5 lb ion in 37 gals, no inter-row cultivation (W).
Plots: 2. Varieties: King Edward (E) Majestic (M).
Sub plots: 3. Levels of seed infection (*Phoma* spp.): 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 28. Lifted: Oct 10. Previous crops: Spring wheat and barley 1965, fallow 1966.

Standard errors per plot. Total tubers:

- Whole plot: 0.557 or 2.7% (4 d.f.)
Sub plot: 1.070 or 5.2% (24 d.f.)

67/Dd/5.2

SUMMARY OF RESULTS

| | E | M | A | B | C | D | Mean |
|----------------------|------------------|-------|------------------|-------|-------|-------|-----------------|
| TOTAL TUBERS | | | | | | | |
| | (± 0.321)* | | (± 0.437)* | | | | |
| O | 19.04 | 20.94 | 22.94 | 20.01 | 16.96 | 20.06 | 19.99 |
| W | 20.20 | 22.08 | 23.63 | 21.68 | 18.48 | 20.76 | 21.14 |
| | | | (1) and (2) | | | | (± 0.227) |
| | E | | 22.58 | 19.27 | 17.07 | 19.55 | 19.62 |
| | M | | 23.99 | 22.41 | 18.36 | 21.27 | 21.51 |
| Mean (± 0.309) | | | 23.29 | 20.84 | 17.72 | 20.41 | 20.56 |

* For use in horizontal and interaction comparisons only
 (1) (± 0.441) For use in vertical and diagonal comparisons
 (2) (± 0.437) For use in horizontal and interaction comparisons

| | % WARE | | | | | | |
|------|--------|------|------|------|------|------|------|
| O | 83.7 | 91.7 | 89.6 | 86.2 | 87.1 | 87.8 | 87.7 |
| W | 82.6 | 92.2 | 88.3 | 86.0 | 87.8 | 87.4 | 87.4 |
| | E | | 84.3 | 81.4 | 83.9 | 82.9 | 83.1 |
| | M | | 93.6 | 90.8 | 91.0 | 92.4 | 92.0 |
| Mean | | | 88.9 | 86.1 | 87.5 | 87.6 | 87.5 |