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Numerical Results of the Field Experiments 1968

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68/DE/7 Warm Water Treated Seed - Potatoes

Rothamsted Research

Rothamsted Research (1970) *68/DE/7 Warm Water Treated Seed - Potatoes* ; Numerical Results Of The Field Experiments 1968, pp 353 - 354 - DOI: <https://doi.org/10.23637/ERADOC-1-58>

68/De/7.1

POTATOES

(RP 7/1)

Warm water treated seed - Long Hoos I and II 1968.

Design: 4 randomised blocks of 6 plots.

Area of each plot: 0.0033. Area harvested: 0.0033.

Treatments: None (0) and all combinations of:-

1. Warm water treatment: 45 (L), 50 (M) degrees C.
2. Duration of water treatment: 20 (2), 30 (3) minutes.
Also 55 degrees C (H) for 10 minutes (1).

Basal applications: 10 cwt (13:13:20). Weedkiller: Paraquat at 0.38 lb ion plus linuron at 0.75 lb in 36 gals. Fungicide: Mancozeb at 1.2 lb in 37 gals on 3 occasions. Insecticide: Demeton-s-methyl at 3.5 oz applied with mancozeb on one occasion.

Cultivations, etc. Deep-tine cultivated twice: 2 Oct, 1967.
Ploughed: 4 - 23 Jan, 1968. Basal NPK compound applied: 14 Mar.
Rotary cultivated, potatoes machine planted: 9 Apr.
Grubbed and rotary ridged: 17 June. Mancozeb applied:
4 July. Mancozeb and demeton-s-methyl applied: 19 July.
Mancozeb applied: 5 Aug. Sprayed with undiluted BOV at
15 gals: 31 Aug. Lifted: 15 Oct. Variety: Majestic.
Previous crops: Lucerne and cocksfoot 1966, fallow 1967.

NOTE: Emergence counts were made.

Standard error per plot.

Total tubers: 1.601 or 9.3% (15 d.f.)

68/De/7.2

SUMMARY OF RESULTS

| 0 | L2 | L3 | M2 | M3 | H1 | Mean |
|--------------|-------|-------|-------|------|-------|-------|
| TOTAL TUBERS | | | | | | |
| 18.49 | 21.48 | 19.93 | 19.33 | 7.72 | 16.68 | 17.27 |
| (±0.800) | | | | | | |
| % WARE | | | | | | |
| 96.3 | 96.6 | 96.8 | 95.8 | 93.9 | 96.6 | 96.0 |