Numerical Results of the Field Experiments 1968

68/DE/7 Warm Water Treated Seed - Potatoes

Rothamsted Research

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

0	L2	L3	M2	M3	H1	Mean
18.49	21.48	19.93	19.33	7.72	16.68	17.27

(±0.800)

% WARE

0	L2	L3	M2	M3	H1	Mean
96.3	96.6	96.8	95.8	93.9	96.6	96.0

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