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Numerical Results of the Field Experiments 1970

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70/R/P/5 Potatoes Chitting, Spacing and Seed Size

Rothamsted Research

Rothamsted Research (1971) *70/R/P/5 Potatoes Chitting, Spacing and Seed Size ; Numerical Results Of The Field Experiments 1970*, pp 299 - 301 - DOI: <https://doi.org/10.23637/ERADOC-1-59>

POTATOES

(70/R/P/5)

Chitting, spacing and seed size, Long Hoos IV 1970.

Design: 2 randomised blocks of 4 plots split into 8.

Area of each sub-plot: N plots - 0.0029, W plots - 0.0037.

Area harvested: N plots - 0.0029, W plots - 0.0037.

Treatments: All combinations of:-

Whole plots: 1. Distance between rows: 28 inches (N), 36 inches (W).

2. Seed size: Large (L), small (S).

Sub-plots: 3. Chitting: Early (E), late (L).

4. Spacing of seed within the row:

Seed 12 (1), 16 (2), 20 (3), 24 (4) inches apart within the row.

Basal applications: 10 cwt (13:13:20). Weedkiller: Linuron at 1 lb in 39 gals. Fungicide: Mancozeb at 1.2 lb in 40 gals on 2 occasions. Insecticide: Demeton-s-methyl at 3.5 oz applied with the first mancozeb spray. Seed treatment: 1% benomyl dust at 10 lb dust per ton of tubers.

Cultivations, etc.: Ploughed: 28 Oct, 1969. Basal NPK applied: 23 Apr, 1970. Plots rotary cultivated, potatoes hand planted: 4 May. Weedkiller applied: 23 May. Fungicide and insecticide applied: 29 July. Fungicide applied: 14 Aug. Sprayed with undiluted BOV at 15 gals: 16 Sept. Lifted: 29 Sept. Variety: King Edward. Previous crops: Barley 1968, s.beans 1969.

NOTE: Emergence counts were made, and stem and plant counts made prior to lifting but after burning off.

Standard error per sub-plot.

Total tubers, tons: 1.029 or 8.4% (24 d.f.)

70/R/P/5

SUMMARY OF RESULTS

TOTAL TUBERS: TONS

	1	2	3	4	Mean
	(± 0.364)*				(± 0.236)
N	13.81	13.09	13.06	12.45	13.10
W	12.54	11.38	11.63	10.25	11.45
	(± 0.364)*				(± 0.236)
L	13.99	12.65	13.03	12.18	12.96
S	12.37	11.81	11.67	10.52	11.59
	(± 0.364)				(± 0.182)
E	13.56	12.16	12.33	10.64	12.17
L	12.79	12.31	12.36	12.06	12.38
Mean (± 0.257)	13.18	12.23	12.35	11.35	12.28

	L	S	E	L
	(± 0.334)		(± 0.257)*	
N	14.48	11.72	13.24	12.97
W	11.44	11.46	11.11	11.79
			(± 0.257)*	
		L	13.01	12.92
		S	11.34	11.85

* For use in horizontal and interaction comparisons only

70/R/P/5

% WARE: 1.75 INCH

	1	2	3	4	Mean
N	86.0	89.3	89.2	91.5	89.0
W	85.5	88.7	91.2	91.1	89.1
L	82.0	87.3	87.7	89.4	86.6
S	89.4	90.7	92.8	93.2	91.5
E	86.3	90.6	89.5	91.3	89.4
L	85.2	87.4	90.9	91.3	88.7
Mean	85.7	89.0	90.2	91.3	89.1

	L	S	E	L
N	87.0	91.0	89.3	88.7
W	86.1	92.1	89.5	88.7
		L	87.2	85.9
		S	91.6	91.5