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Numerical Results of the Field Experiments 1968

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68/DE/1 Effect of Gaps - Potatoes

Rothamsted Research

Rothamsted Research (1970) *68/DE/1 Effect of Gaps - Potatoes* ; Numerical Results Of The Field Experiments 1968, pp 337 - 338 - DOI: <https://doi.org/10.23637/ERADOC-1-58>

68/De/1.1

POTATOES

(RP 1/1)

Effect of gaps - Great Harpenden II 1968.

Design: 5 blocks of 2 split into 6.

Area of each plot: 0.0067. Area harvested: 0.0033.

Treatments: All combinations of:-

Whole plots: 1. Time of gapping: At emergence on 30 May (E), at flowering on 5 July (F).

Sub plots: 2. Amount of gapping: Normal plant population (G0), 4 (G4), 8 (G8), 12 (G12), 16 (G16), 24 (G24) per cent of plants removed.

Basal applications: 3 tons ground chalk, 7 tons FYM, 8 cwt (13:13:20).

Weedkiller: Paraquat at 0.5 lb ion plus linuron at 0.75 lb in 36 gals. Fungicide: Mancozeb at 1.2 lb in 36 gals on 3 occasions.

Insecticide: Demeton-s-methyl at 3.5 oz applied with mancozeb on one occasion.

Cultivations, etc.: - FYM applied: 8 Dec, 1967. Ground chalk applied, ploughed: 20 Dec. Basal NPK applied: 20 - 27 Mar, 1968. Rotary cultivated, potatoes machine planted: 8 Apr. Weedkiller applied: 4 May. Grubbed: 17 June. Rotary ridged: 18 June. Mancozeb applied: 5 July. Mancozeb and demeton-s-methyl applied: 19 July. Mancozeb applied: 5 Aug. Sprayed with undiluted BOV at 15 gals: 5 Sept. Lifted: 17 Oct. Variety: Majestic. Previous crops: Grass 1959 - 1967.

Standard errors per plot. Total tubers:

Whole plot: 0.774 or 5.3% (4 d.f.)

Sub plot: 1.174 or 8.0% (40 d.f.)

68/De/1.2

SUMMARY OF RESULTS

	G0	G4	G8	G12	G16	G24	Mean
	TOTAL TUBERS						
	(1) and (2)						(± 0.379)
E		15.11	15.61	14.67	14.18	14.45	14.80
F		15.55	14.60	13.79	13.11	13.25	14.06
Mean (± 0.371)	15.30	15.33	15.10	14.23	13.64	13.85	14.58*

(1) (± 0.591) For use in vertical and diagonal comparisons only(2) (± 0.525) For use in horizontal and interaction comparisons only

% WARE

E	97.8	97.9	98.0	97.8	98.5	98.0
F	98.2	98.3	98.1	98.0	98.4	98.2
Mean	97.9	98.0	98.1	98.0	97.9	98.4
						98.1*

* General mean