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Numerical Results of the Field Experiments 1968

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68/DE/11 Post-planting Cultivations - Potatoes

Rothamsted Research

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68/De/11.1

POTATOES

(RP 12/1)

Post-planting cultivations - Long Hoos I and II, 1968.

Design: 4 randomised blocks of 5 plots, split into 2.

Area of each sub plot: 0.0064. Area harvested: 0.0032.

Treatments: All combinations of:-

Whole plots:

1. Treatment of ridges (immediately after planting):
 - Undisturbed (O)
 - Grubbed (G)
 - Rolled (R)
 - Rolled and grubbed (RG)
 - Chain harrowed and grubbed (HG)

Sub plots:

2. Grubbing and rotary ridging (just before tops meet in rows): None (RO), grubbed and rotary ridged (RR).

Basal applications: 10 cwt (13:13:20). Weedkiller: Paraquat at 0.38 lb ion and linuron at 0.75 lb in 37 gals. Fungicide: Mancozeb at 1.2 lb in 37 gals on three 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 applied: 14 Mar. Rotary cultivated: 2 Apr, Potatoes machine planted: 4 Apr. Treatments G, R, RG, HG applied: 6 Apr. Weedkiller applied: 3 May. 'RR' plots grubbed: 7 June. 'RR' plots rotary ridged: 10 June. Fungicide applied: 5 July. Fungicide and insecticide applied: 19 July. Fungicide applied: 5 Aug. Sprayed with undiluted BOV at 15 gals: 21 Aug. Lifted: 21 Oct. Variety: King Edward. Previous crops: Lucerne and cocksfoot 1966, fallow 1967.

Standard errors per plot.

Total tubers: Whole plot: 1.019 or 5.3% (12 d.f.)
Sub plot: 1.588 or 8.2% (15 d.f.)

68/De/11.2

SUMMARY OF RESULTS

	O	G	R	RG	HG	Mean
	TOTAL TUBERS					
	(1) and (2)					(±0.355)
RO	18.66	18.96	19.96	19.40	18.69	19.13
RR	19.80	20.18	20.10	18.18	19.95	19.64
Mean (±0.510)	19.23	19.57	20.03	18.79	19.32	19.39

(1) (±0.758) For use in horizontal and diagonal comparisons only
 (2) (±0.794) For use in vertical and interaction comparisons only

	% WARE					
RO	95.7	94.8	95.0	95.2	95.4	95.2
RR	96.1	96.5	96.1	95.8	95.7	96.0
Mean	95.9	95.6	95.5	95.5	95.5	95.6