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Yields of the Field Experiments 1967

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67/R/RP2/1/DD/1 Potatoes - Effect of Gaps

Rothamsted Research

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67/Da/1.1

POTATOES

(RP 2/1)

Effect of gaps - Pastures 1967.

Design: 5 randomised blocks of 2 plots, split into 6.

Area of each sub plot: 0.0071. Area harvested: 0.0033.

Treatments: All combinations of:-

Whole plots: 1. Time of gapping: At emergence on June 12 (E),
at flowering on July 12 (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: 10 cwt (13:13:20). Weedkiller: Linuron at 0.75
lb plus paraquat at 0.5 lb ipn in 37 gals. Fungicide: Mancozeb
at 1.2 lb in 30 gals on four occasions.

Cultivations, etc.: Rotary cultivated: Sept 16, 1966. Ploughed:
Nov 23 - Jan 5, 1967. Basal compound fertiliser applied:
Mar 30. Rotary cultivated second time: Apr 19. Potatoes
planted: Apr 20. Weedkiller applied: May 17. Fungicide
applied: June 30, July 21, Aug 3, Aug 24. Sprayed with undiluted
BOV at 15 gals: Sept 7. Lifted: Sept 20. Variety: Majestic.
Previous crops: Spring wheat and barley 1965, fallow 1966.

Standard errors per plot. Total tubers:

Whole plot: 0.413 or 2.0% (4 d.f.)

Sub plot: 1.170 or 5.6% (40 d.f.)

67/Dd/1.2

SUMMARY OF RESULTS

	G0	G4	G8	G12	G16	G24	Mean
TOTAL TUBERS							
	(1) and (2)						(±0.234)
E		21.93	21.59	21.20	21.90	20.28	21.38
F		21.03	20.71	20.44	19.54	18.40	20.02
Mean (±0.370)	22.38	21.48	21.15	20.82	20.72	19.34	20.98*

(1) (±0.512) For use in vertical and diagonal comparisons

(2) (±0.523) For use in horizontal and interaction comparisons

% WARE

E		97.2	97.7	97.4	97.9	98.0	97.6
F		97.2	97.7	97.5	97.7	98.1	97.6
Mean	97.5	97.2	97.7	97.5	97.8	98.1	97.6*

* General mean