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Yields of the Field Experiments 1966

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66/R/RP6/1/DD/3 and 66/R/RP6/1/DD/3 Potatoes - Effect of Gaps - 2 Sites

Rothamsted Research

Rothamsted Research (1967) *66/R/RP6/1/DD/3 and 66/R/RP6/1/DD/3 Potatoes - Effect of Gaps - 2 Sites* ; Yields Of The Field Experiments 1966, pp 279 - 281 - DOI:
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66/Dd/3.1

POTATOES

(Two experiments - RP6/1 and RP17/1)

Effects of gaps - Little Hoos 1966.

Design: RP6/1 (variety Pentland Dell) - 4 randomised blocks of 3 plots split into 5.

RP17/1 (variety King Edward) - 6 randomised blocks of 2 plots split into 5.

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

Treatments: All combinations of:-

Whole plots: 1. Time of gapping: At emergence (E) - variety Pentland Dell only, at flowering (F), just before harvest (H).

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

Basal applications: 13.5 tons dung, 7.75 cwt (17:11:22).

Weedkiller: Linuron at 1 lb plus paraquat at 0.75 lb ion in 37 gals. Fungicide: Mancozeb at 1.2 lb in 35 gals on 4 occasions (King Edward) and on 2 occasions (Pentland Dell).

Cultivations, etc.: Dung applied: Jan 11, 1966. Ploughed:

Jan 12. Basal NPK applied: Mar 30. Rotary cultivated, potatoes planted: King Edward - Apr 7, Pentland Dell - May 17. Weedkiller applied: June 1. Rotary ridged (King Edward only): June 15. Fungicide applied: King Edward - June 30, July 23, Aug 8 and 18, Pentland Dell - July 23 and Aug 8. Sprayed with undiluted BOV: King Edward - Sept 16, Pentland Dell - Sept 23. Haulm destroyed mechanically: Sept 27. Lifted: King Edward - Sept 28, Pentland Dell - Oct 10. Previous crops: Barley 1964, fallow 1965.

NOTE: The Pentland Dell experiment suffered badly from unplanned gaps and poor growth. A second experiment was therefore started on King Edward potatoes already planted.

Standard errors per plot. Total tubers:

RP6/1. Pentland Dell.	Whole plot: 0.583 or 3.6% (6 d.f.)
	Sub plot: 1.303 or 8.0% (36 d.f.)
RP17/1. King Edward.	Whole plot: 0.772 or 3.7% (5 d.f.)
	Sub plot: 0.952 or 4.5% (40 d.f.)

66/Dd/3.2

SUMMARY OF RESULTS

TOTAL TUBERS

	G0	G4	G8	G12	G16	Mean
RP6/1 Pentland Dell						
	(1) and (2)					(± 0.326)
E		17.20	16.82	16.39	15.15	16.39
F		17.74	16.08	16.21	15.01	16.26
H		16.34	15.88	15.24	13.65	15.28
Mean (± 0.376)	17.56	17.09	16.26	15.95	14.60	16.29*

RP17/1 King Edward						
	(1) and (2)					(± 0.342)
F		22.90	21.21	21.10	19.63	21.21
H		21.80	20.16	19.18	18.82	19.99
Mean (± 0.275)	22.61	22.35	20.69	20.14	19.23	21.00*

* General Mean

RP6/1	RP17/1	
(1) (± 0.652)	(± 0.469)	For use in vertical and diagonal comparisons
(2) (± 0.652)	(± 0.389)	For use in horizontal and interaction comparisons

66/Da/3.3

% WARE

	G0	G4	G8	G12	G16	Mean
RP6/1 Pentland Dell						
E		98.9	99.0	98.2	98.5	98.6
F		98.7	98.2	98.8	98.7	98.6
H		98.2	98.6	98.3	98.0	98.3
Mean	98.7	98.6	98.6	98.4	98.4	98.5

RP17/1 King Edward

F		96.6	96.5	96.0	97.0	96.5
H		97.1	96.7	96.4	96.6	96.7
Mean	96.9	96.9	96.6	96.2	96.8	96.7