

Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1966

[Full Table of Content](#)



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:

<https://doi.org/10.23637/ERADOC-1-158>

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