

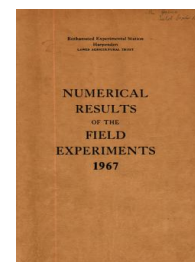
Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED  
RESEARCH

## Yields of the Field Experiments 1967

[Full Table of Content](#)



---

### 67/R/RP7/1/DD/6 Potatoes - Rhizoctonia and Storage

#### Rothamsted Research

Rothamsted Research (1968) *67/R/RP7/1/DD/6 Potatoes - Rhizoctonia and Storage* ; Yields Of The Field Experiments 1967, pp 323 - 325 - DOI: <https://doi.org/10.23637/ERADOC-1-157>

67/Dd/6.1

POTATOES

(RP 7/1)

Effects of stem-canker (*Rhizoctonia solani*) on stored seed -  
Pastures 1967.

Design: 6 randomised blocks of 8 plots. 3 blocks with weedkiller,  
3 without (not randomised).

Area of each sub plot: 0.0036. Area harvested: 0.0056.

Treatments: All combinations of:-

Columns of

3 blocks: 1. Weedkiller: None, with inter-row cultivations (WO),  
sprayed with linuron at 0.75 lb and paraquat at  
0.5 lb ion in 37 gals, no inter-row cultivations (WW).

Plots: 2. Varieties: King Edward (E), Pentland Dell (P).  
3. Seed infection: None (O), infected with stem-canker  
(*Rhizoctonia solani*) (R).  
4. Seed storage: Stored dry (DR), stored damp (DA).

Basal applications: 10 cwt (13:13:20). 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, potatoes planted: Apr 19. Weedkiller applied:  
May 17. WO plots grubbed and mechanically weeded: May 19. WO plots  
grubbed: June 14. Fungicide applied: June 30, July 21, Aug 3,  
Aug 24. Sprayed with undiluted BOV at 15 gals: Sept 20. Haulm  
destroyed mechanically: Sept 28. Lifted: Sept 28 and Oct 4.  
Previous crops: Spring wheat and barley 1965, fallow 1966.

Standard error per plot.

Total tubers: 1.178 or 10.4% (28 d.f.)

67/Da/6.2

SUMMARY OF RESULTS

TOTAL TUBERS

	WD	WW	O	R	DR	DA	Mean
	$(\pm 0.340)^*$		$(\pm 0.340)$		$(\pm 0.340)$		$(\pm 0.240)$
E	12.10	12.67	12.60	12.17	12.39	12.37	12.38
P	9.47	10.89	10.37	9.98	10.12	10.24	10.18
Mean	10.78	11.78	11.48	11.08	11.25	11.31	11.28
			$(\pm 0.240)$		$(\pm 0.240)$		

	WD O	WD R	WW O	WW R
	$(\pm 0.481)^*$			
E	11.84	12.35	13.35	11.99
P	9.37	9.56	11.37	10.41

	WD DR	WD DA	WW DR	WW DA
	$(\pm 0.481)^*$			
E	11.98	12.22	12.81	12.53
P	9.40	9.53	10.84	10.95

	O DR	O DA	R DR	R DA
	$(\pm 0.481)^*$			
E	12.66	12.53	12.12	12.22
P	10.27	10.48	9.97	10.00

\* For use in comparisons within the same weedkiller treatment

67/Dd/6.3

% WARE

	WD	WW	O	R	DR	DA	Mean
E	86.1	87.0	87.6	85.6	85.7	87.5	86.6
P	94.8	94.8	94.6	95.0	94.4	95.2	94.8
Mean	90.5	90.9	91.1	90.3	90.0	91.3	90.7
	WD O	WD R	WW O	WW R			
E	86.0	86.2	89.1	84.9			
P	94.5	95.1	94.7	94.8			
	WD DR	WD DA	WW DR	WW DA			
E	85.1	87.2	86.3	87.8			
P	94.5	95.1	94.2	95.3			
	O DR	O DA	R DR	R DA			
E	85.8	89.3	85.5	85.6			
P	94.1	95.1	94.6	95.3			