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Yields of the Field Experiments 1967

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

Rothamsted Research

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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

	WO	WW	O	R	DR	DA	Mean
	$(\pm 0.340)^*$		(± 0.340)		(± 0.340)		(± 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 (± 0.240)	11.08	11.25 (± 0.240)	11.31	11.28
	WO O	WO 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			
	WO DR	WO 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/Da/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			