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Numerical Results of the Field Experiments 1969

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69/W/P/3 - Verticillium, Varieties & Ccc - Potatoes

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POTATOES

(69/W/P/3)

Verticillium, varieties and CCC - Woburn Broadmead I (diseased site)
and Workhouse (healthy site) 1969.

Design: 3 blocks of 2 plots split into 4.

Area of each sub plot: 0.0021. Area harvested: Broadmead I - 0.0019
Workhouse - 0.0021.

Treatments: All combinations of:-

Whole plots: 1. CCC: None (O), soil drench at 15 lb CCC
(chlormequat) (S).

Sub plots: 2. Varieties: King Edward (KE), Majestic (M),
Maris Piper (MP), Pentland Crown (PC).

Basal applications: 10 cwt (13:13:20). Weedkiller: Paraquat at 0.5 lb
ion plus linuron at 0.5 lb in 25 gals (Broadmead I), paraquat at
0.37 lb ion plus linuron at 0.5 lb in 25 gals (Workhouse).
Fungicide: Mancozeb at 1.2 lb in 37 gals on 3 occasions.
Insecticide: Demeton-s-methyl at 3.5 oz in 37 gals on one
occasion with fungicide.

Cultivations, etc.:

Broadmead I: Ploughed: 12 Dec, 1968. NPK applied: 8 Apr, 1969.

Rotary cultivated: 30 Apr. Potatoes planted: 1 May. Rotary

ridged: 10 May. Weedkiller applied: 15 May. CCC applied:

5 June. Fungicide applied: 19 July, 6 Aug, 27 Aug.

Insecticide applied: 19 July. Sprayed with undiluted BOV at

16 gals: 25 Sept. Lifted: 6 Oct. Previous crops: Spring beans
1967, winter wheat 1968.

Workhouse : Ploughed: 20 Nov, 1968. NPK applied: 9 Apr, 1969.

Rotary cultivated: 30 Apr. Potatoes planted: 1 May. Rotary

ridged: 9 May. Weedkiller applied: 15 May. CCC applied:

5 June. Fungicide applied: 18 July, 7 Aug, 27 Aug.

Insecticide applied: 18 July. Sprayed with undiluted BOV

at 16 gals: 25 Sept. Lifted: 6 Oct. Previous crops:

Barley 1967, spring beans 1968.

NOTE: Plant samples were taken in August for assessment of
Verticillium wilt.

Standard errors per plot. Total tubers, tons:

Broadmead I: Sub plot: 0.795 or 6.5% (12 d.f.)

Workhouse: Sub plot: 1.651 or 8.5% (12 d.f.)

SUMMARY OF RESULTS

BROADMEAD I

	KE	M	MP	PC	Mean
TOTAL TUBERS					
(± 0.459)*					
O	11.42	11.25	10.46	17.07	12.55
S	11.62	10.28	11.07	14.91	11.97
Mean (± 0.325)	11.52	10.76	10.76	15.99	12.26
% WARE					
O	81.2	93.0	91.9	96.4	90.6
S	82.2	91.9	94.0	95.9	91.0
Mean	81.7	92.5	92.9	96.1	90.8

* For use in horizontal and interaction comparisons only

WORKHOUSE					
	KE	M	MP	PC	Mean
TOTAL TUBERS					
	(± 0.953)*				
O	19.70	18.02	16.84	22.72	19.32
S	19.14	17.96	20.06	20.79	19.49
Mean (± 0.674)	19.42	17.99	18.45	21.76	19.40
% WARE					
O	95.6	96.6	96.1	98.0	96.6
S	95.6	97.0	97.2	98.5	97.1
Mean	95.6	96.8	96.6	98.3	96.8

* For use in horizontal and interaction comparisons only