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Numerical Results of the Field Experiments 1968

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68/C/23 Effects of Formalin and Nitrogen - Grass

Rothamsted Research

Rothamsted Research (1970) *68/C/23 Effects of Formalin and Nitrogen - Grass* ; Numerical Results Of The Field Experiments 1968, pp 205 - 206 - DOI: <https://doi.org/10.23637/ERADOC-1-58>

68/c/19.2

SUMMARY OF RESULTS

SERIES I

1966 1967 1968	MP MP MP	MP PD MP	PD PD PD	PD MP PD	Mean
TOTAL TUBERS					
(±0.596)					(±0.298)
O	13.95	12.36	5.38	8.10	9.95
C	13.41	12.03	4.68	8.65	9.69
O	12.60	10.22	2.53	4.70	7.51
F	14.76	14.16	7.54	12.05	12.13
Mean (±0.422)	13.68	12.19	5.03	8.37	9.82

% WARE

O	93.7	95.6	74.3	84.2	86.9
C	92.1	95.1	75.5	85.8	87.1
O	91.8	94.7	63.0	75.7	81.3
F	94.0	95.9	86.8	94.2	92.7
Mean	92.9	95.3	74.9	85.0	87.0

Varieties MP = Maris Piper (resistant)
PD = Pentland Dell (susceptible)

68/C/19.1

IRRIGATION AND EELWORM

(WCE)

Butt Close Woburn, the third year - potatoes, 1968

Effects on yield and cyst nematode of soil fumigant and irrigation and of sequences of resistant and susceptible varieties of potatoes.

For details of treatments etc. and previous years' results see 'Results' 66/C/32 and 67/C/25. Irrigation and fumigant treatments are cumulative.

Area of each sub plot: 0.0114. Area harvested: 0.0068.

Irrigation (C) 1968 (inches water)

Series I		Series IV	
21 June	0.50	21 June	0.50
5 July	0.50	4 July	0.50
9 July	0.75	1 Aug	0.50
2 Aug	0.50		
Total	2.25		1.50

Basal applications: 9 cwt (13:13:20). Weedkiller: Linuron at 0.5 lb plus paraquat 0.37 lb in 50 gals. Fungicide: Mancozeb at 1.2 lb in 38 gals, on three occasions. Magnesian limestone at 22.5 cwt.

Cultivations, etc.: Subsoiled (Series I): 25 Sept, 1967, (Series IV): 23 Sept. Ploughed: 25 Sept. DD injected at 400 lb: 24 Oct. Magnesian limestone applied: 8 Nov. Fertiliser applied: 18 Mar, 1968. Rotary cultivated, potatoes planted (Series I): 1 Apr, (Series IV): 4 Apr. Weedkiller applied: 2 May. Ridged, Maris Piper: 31 May, Pentland Dell: 13 June. Fungicide applied: 12 July, 18 July, 30 July. Sprayed with undiluted BOV at 15 gals: 2 Aug. Lifted: 1 Oct.

NOTE: Soil samples were taken from each plot after fumigation and before cropping. Cyst and egg counts were made.

Standard errors per plot, (pooled). Total tubers:
 Series I: 1.460 or 14.9% (30 d.f.)
 Series IV: 1.604 or 13.8% (30 d.f.)