

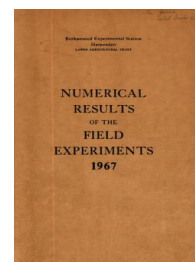
Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED  
RESEARCH

## Yields of the Field Experiments 1967

[Full Table of Content](#)



---

### 67/W/WCE/C/25 Irrigation and Eelworm - Potatoes

#### Rothamsted Research

Rothamsted Research (1968) *67/W/WCE/C/25 Irrigation and Eelworm - Potatoes ; Yields Of The Field Experiments 1967*, pp 201 - 204 - DOI: <https://doi.org/10.23637/ERADOC-1-157>

67/C/25.1

IRRIGATION AND EELWORM

(WCE)

Butt Close Woburn, the second year - potatoes

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 for the previous years' results see 'Results' 66/C/32. Irrigation and fumigant treatments are cumulative.

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

Irrigation (C) 1967: (inches water)

Series I		Series IV	
June 13	1.00	June 16	1.00
June 21	1.00	June 22	1.00
July 5	0.50	July 6	0.50
July 11	0.75	July 12	0.75
July 18	0.50	July 19	0.50
July 20	0.25	July 21	0.25
August 8	0.25	August 11	0.25
<hr/>		<hr/>	
Total	4.25		4.25

Basal applications: 9 cwt (13:13:20). Weedkiller: Linuron at 0.25 lb plus paraquat at 0.5 lb ion in 50 gals. Fungicide: Mancozeb at 1.2 lb in 30 gals.

Cultivations, etc.: Ground chalk applied at 20 cwt: Oct 29, 1966. Deep-tine cultivated twice: Oct 31, Nov 4. Fumigant injected (Series I): Nov 21 - 22, (Series IV): Nov 22, Dec 5. Deep-tine cultivated: Mar 6, 1967. Fertilisers applied: Mar 20. Rotary cultivated, potatoes planted: Mar 29 - 30. Weedkiller applied: May 3. Rotary ridged: June 9. Fungicide applied: June 30, July 26. Sprayed with undiluted BOV at 15 gals: Aug 21. Lifted: Sept 14.

Note: Soil samples were taken from each plot after fumigation and before cropping. Cyst and egg counts were made, and soil used for root invasion tests.

67/C/25.2

Standard errors per plot. Total tubers:

Series I

Strip: 1.024 or 15.1% (6 d.f.)  
1/2 plots: 1.136 or 16.8% (8 d.f.)  
1/4 plots: 0.969 or 14.3% (16 d.f.)

Series IV

Strip: 2.568 or 22.6% (6 d.f.)  
1/2 plots: 2.270 or 20.0% (8 d.f.)  
1/4 plots: 2.282 or 20.1% (16 d.f.)

67/C/25.3

SUMMARY OF RESULTS

SERIES I

	DS	DA	PS	PA	Mean
TOTAL TUBERS					
Mean ( $\pm 0.296$ )	2.62	6.63	9.04	8.77	6.77
		( $\pm 0.464$ )*			
O	2.05	5.58	8.03	7.60	5.82
C	3.19	7.67	10.05	9.94	7.71
		( $\pm 0.396$ )			( $\pm 0.198$ )
O	0.93	3.88	5.80	4.94	3.89
F	4.30	9.37	12.28	12.61	9.64
% WARE 1.5 INCH RIDDLE					
Mean	73.7	86.5	88.2	94.2	85.6
O	73.4	84.9	87.8	94.4	85.1
C	74.0	88.1	88.5	94.0	86.2
O	63.8	81.2	84.4	91.2	80.1
F	83.5	91.9	91.9	97.2	91.1

\* For use in interaction comparisons only.

67/C/25.4

SERIES IV

	DS	DA	PS	PA	Mean
TOTAL TUBERS					
Mean ( $\pm 0.741$ )	8.95	13.18	12.36	10.89	11.34
	$(\pm 0.926)^*$				
O	8.31	12.27	12.24	9.95	10.70
C	9.59	14.08	12.48	11.83	11.99
	$(\pm 0.932)$				$(\pm 0.466)$
O	5.92	10.24	10.99	8.64	8.95
F	11.99	16.11	13.73	13.14	13.74
% WARE 1.5 INCH RIDDLE					
Mean	89.4	95.5	91.2	94.5	92.7
O	89.4	95.0	92.3	93.9	92.7
C	89.4	96.0	90.2	95.1	92.7
O	83.3	94.7	90.2	94.1	90.6
F	95.6	96.3	92.3	94.9	94.8

\* For use in interaction comparisons only.