

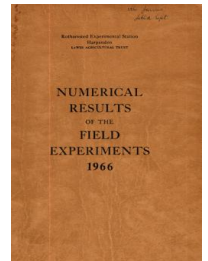
Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1966

[Full Table of Content](#)



66/W/WP301/DD/10 Potatoes - Verticillium

Rothamsted Research

Rothamsted Research (1967) *66/W/WP301/DD/10 Potatoes - Verticillium* ; Yields Of The Field Experiments 1966, pp 295 - 297 - DOI: <https://doi.org/10.23637/ERADOC-1-158>

66/Dd/10.1

POTATOES

(WP301)

Effects of Verticillium - Woburn Great Hill South West 1966.

Design: 2 blocks of 8 plots split into 3 for seed potato stocks.

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

Treatments: All combinations of:-

Whole plots: 1. Nitrogen: None (N0), 2.0 (N1) cwt N as 'Nitro-Chalk'.

2. Phosphate: None (P0), 2.0 (P1) cwt P205 as superphosphate.

3. Potash: None (K0), 2.5 (K1) cwt K20 as muriate of potash.

Sub plots: 4. Seed stock: (All of variety King Edward): Once grown ex Rothamsted (A), selected from L1 (B), L3 (C) plots of the Woburn 'Methods of Fertiliser Application Experiment' (see 'Results' 65/C/5.1), which was attacked by Verticillium dahliae.

NOTE: Stock A was free from paracrinkle virus, but B and C were not.

Basal applications, etc.: Manures: None. Fungicide: Mancozeb 1.2 lb in 33 gals on 3 occasions.

Cultivations, etc.: Ploughed: Feb 4, 1966. Fertilisers applied: Apr 4. Rotary cultivated and planted: Apr 28. Earthed up: June 13. Sprayed fungicide: June 29, July 22, Aug 10. Haulm destroyed mechanically: Sept 16. Lifted: Sept 23. Previous crops: Barley 1964 and 1965.

Standard errors per plot. Total tubers:

Whole plot: 2.218 or 25.2% (7 d.f.)

Sub plot: 0.959 or 10.9% (16 d.f.)

66/Da/10.2

SUMMARY OF RESULTS

TOTAL TUBERS				
	A	B	C	Mean
Mean (± 0.240)	9.61	8.44	8.33	8.79
	(1) and (2)			(± 0.784)
NO	4.94	4.47	4.13	4.51
N1	14.28	12.41	12.52	13.07
PO	8.39	7.35	6.84	7.53
P1	10.83	9.52	9.81	10.06
KO	9.13	8.21	8.19	8.51
K1	10.08	8.67	8.46	9.07

	PO	P1	KO	K1
	(± 1.109)		(± 1.109)	
NO	3.42	5.60	4.63	4.39
N1	11.63	14.51	12.39	13.75
			(± 1.109)	
		PO	6.54	8.52
		P1	10.48	9.63

(1) (± 0.832) For use in vertical and diagonal comparisons(2) (± 0.339) For use in horizontal and interaction comparisons

66/Da/10.3

% WARE				
	A	B	C	Mean
Mean (± 1.16)	84.1	80.1	80.4	81.6
NO	78.2	73.9	73.0	75.0
N1	90.1	86.4	87.8	88.1
PO	81.6	75.8	77.8	78.4
P1	86.6	84.4	83.0	84.7
KO	82.2	78.0	80.7	80.3
K1	86.0	82.3	80.1	82.8

	PO	P1	KO	K1
NO	70.6	79.4	75.5	74.6
N1	86.3	89.9	85.2	91.0

	PO		75.2	81.7
	P1		85.4	83.9