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Yields of the Field Experiments 1966

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

Rothamsted Research

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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/Dd/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
NL	90.1	86.4	87.8	88.1
PO	81.6	75.8	77.8	78.4
PI	86.6	84.4	83.0	84.7
KO	82.2	78.0	80.7	80.3
KL	86.0	82.3	80.1	82.8

	PO	PI	KO	KL
NO	70.6	79.4	75.5	74.6
NL	86.3	89.9	85.2	91.0
		PO	75.2	81.7
		PI	85.4	83.9