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# Yields of the Field Experiments 1964

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## 64/R/RP501/DD/3 Potatoes - Fungicides

### Rothamsted Research

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64/Dd/3.1

POTATOES

(RP 501)

Control of blight (*Phytophthora infestans*) by copper and tin fungicides -  
Long Hoos IV 1964.

Design: Two 6 x 6 Latin squares, one for each variety - King Edward  
and Ulster Supreme. Some plots were split for certain additional  
treatments.

Area of each plot: 0.0129. Area harvested: 0.0077.

Treatments: No fungicide	(0)
Commercial copper oxychloride wettable powder at 2.5 lb Cu	(1)
Copper oxychloride at 2.5 lb Cu with 10 lb wax	(2)
As treatment 2 with phenylmercury acetate at 0.03 lb	(3)
Commercial triphenyltin acetate wettable powder at 0.3 lb triphenyltin acetate	(4)
Triphenyltin acetate at 0.3 lb in 10 lb wax	(5)

All sprays applied in 100 gals.

NOTE: Additional treatments with copper oxychloride and triphenyltin  
acetate were applied to certain sub plots, but as there was no blight  
separate yields were not recorded.

Basal dressing: 7 cwt 17:11:22.

Cultivations, etc.: Ploughed: Sept 12 - 23, 1963. Sprayed three  
times with sodium trichloroacetate at 18 lb in 40 gals:  
Sept 25, Oct 1 and Oct 23. Chisel ploughed: Dec 18. Basal  
dressing applied: Apr 3, 1964. Rotary cultivated: Apr 14.  
Potatoes machine planted: Apr 15. Earthed up: June 12. Copper  
and tin fungicides applied: July 28. Lifted: King Edward -  
Sept 11, Ulster Supreme - Sept 18. Previous crops: Winter wheat  
1962 and 1963.

Standard errors per plot. Total tubers:  
King Edward: 0.737 or 10.0% (20 d.f.)  
Ulster Supreme: 0.937 or 10.2% (20 d.f.)

64/Da/3.2

SUMMARY OF RESULTS

0	1	2	3	4	5	Mean
KING EDWARD						
TOTAL TUBERS						
7.59	7.35	7.34	6.93	7.25	7.94	7.40
(±0.301)						
% WARE						
79.9	80.3	79.1	80.3	80.5	81.2	80.2
ULSTER SUPREME						
TOTAL TUBERS						
9.70	9.13	9.07	9.11	8.42	9.53	9.16
(±0.383)						
% WARE						
90.2	90.7	90.8	89.7	89.9	89.9	90.2