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Yields of the Field Experiments 1963

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63/R/RP401/DD/3 Potatoes - Fungicides

Rothamsted Research

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63/Dd/3.1

POTATOES

(RP 401)

Control of blight (Phytophthora infestans) by copper and tin fungicides -
Stackyard 1963.

Design: 6 x 6 Latin square.

Area of each plot (acres): 0.0129. Area harvested: 0.0077.

Treatments: No fungicide (0)
Commercial copper oxychloride wettable powder at 2.5 lb Cu
per acre (1)
Copper oxychloride at 2.5 lb Cu per acre with 10 lb wax (2)
As treatment 2 with sodium thiobenzoate at 1 lb per acre (3)
Commercial triphenyltin acetate wettable powder at 0.3 lb
triphenyltin acetate per acre (4)
Triphenyltin acetate at 0.3 lb per acre in 10 lb wax (5)
All sprays applied in 100 gallons per acre.

Basal dressing: 7 cwt per acre compound fertiliser, 17% N, 11% $P_{2}O_{5}$,
22% $K_{2}O$.

Cultivations, etc.: Ploughed: Mar 15 - 23, 1963. Basal dressing applied,
rotary cultivated: Apr 26. Rotary cultivated 2nd time, potatoes
machine planted: May 6. Earthed up: June 27. Copper and tin
fungicides applied: July 18 and 31. Haulm destroyed with diquat at
1.2 pints in 40 gallons per acre: Sept 28. Lifted: Dec 5. Variety:
King Edward. Previous crops: 1 year ley 1961, winter wheat 1962.

Note: A severe attack of aphids prevented the estimation of foliage
blight, and because of slug damage following the very late harvest,
tuber blight was not estimated.

Standard error per plot.

Total tubers: 0.577 tons per acre or 7.7% (20 d.f.)

63/Dd/3.2

Summary of Results

	Fungicide						Mean
	0	1	2	3	4	5	
<u>Total tubers: tons per acre</u>							
Mean (± 0.236)	8.06	6.58	6.39	6.34	9.10	8.24	7.45
Increase (± 0.333)		-1.48	-1.67	-1.72	+1.04	+0.18	
<u>Percentage ware (1.5 inch riddle)</u>							
Mean	90.9	83.9	85.8	82.5	92.7	89.8	87.6
Increase		-7.0	-5.1	-8.4	+1.8	-1.1	

For explanation of treatment symbols see page 63/Dd/3.1