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# Yields of the Field Experiments 1971

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## 71/R/P/13 Comparison of Fungicides - Potatoes

### Rothamsted Research

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71/R/P/13

POTATOES

COMPARISON OF FUNGICIDES

Object: To test the effects of organo-tin fungicides on yield and foliar blight (*Phytophthora infestans*) of potatoes - Fosters Corner.

Design: 6 x 6 Latin square.

Whole plot dimensions: 4.27 x 10.7. Area harvested: 0.00152.

Treatments:

No fungicide	(0)
Fentin acetate at 112 g plus maneb at 34 g	(1AM)
Fentin acetate at 336 g plus maneb at 112 g	(3AM)
Fentin acetate at 112 g plus maneb at 34 g plus 11.2 kg wax	(1AMW)
Dibutyltin diacetate at 785 g	(D)
Fentin sulphide at 392 g	(S)

All the fungicides were applied, on two occasions, in 785 l.

Basal applications: 1506 kg (13:13:20). Weedkiller: Linuron at 0.84 kg in 427 l. Insecticide: Demeton-s-methyl at 245 g in 438 l.

Cultivations, etc.: Ploughed: 28 Sept, 1970. Basal NPK applied: 30 Mar, 1971. Rotary cultivated, potatoes machine planted: 5 Apr. Weedkiller applied: 10 May. Grubbed: 3 June. Rotary ridged: 5 June. Insecticide applied: 25 June. Fungicide sprays applied: 27 July, 17 Aug. Haulm destroyed mechanically: 8 Sept. Sprayed with undiluted BOV at 168 l: 15 Sept. Lifted: 4 Oct. Variety: King Edward. Previous crops: Barley 1969, fallow 1970.

Standard error per plot.

Total tubers, tonnes/hectare: 2.14 or 4.5% (20 d.f.)

71/R/P/13

SUMMARY OF RESULTS

1AM	3AM	1AMW	D	S	Mean
TOTAL TUBERS: TONNES/HECTARE					
(±0.88)					
46.4	45.9	50.1	46.8	46.6	48.4
% WARE: 3.81 CM (1.5 INCH) RIDDLE					
93.4	93.0	94.0	92.9	93.8	93.3