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63/W/WP201/DD/5 Potatoes - Control of Tuber Blight

Rothamsted Research

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63/Dd/5.1

POTATOES

(WP 201)

Control of tuber blight (*Phytophthora infestans*) by fungicide sprays and haulm destruction - Woburn Lansome Field 1963.

Design: 6 randomised blocks of 4 plots each.

Area of each plot: 0.0848 acres. Area harvested: 0.0141 acres.

Treatments: None	(O)
Mancozeb* followed by one spraying with copper oxychloride fungicide**	(Cu)
Mancozeb* applied twice	(M)
As treatment ^{Cu} but haulm burnt off*** when foliage 1% blighted on sprayed plots	(Cu A)

* At 1.5 lb fungicide, containing 80% mancozeb, in 20 gallons per acre.

** At 2.3 lb Cu in 20 gallons per acre.

*** With undiluted BOV at 16 gallons per acre.

Basal dressing: 8 cwt per acre compound fertiliser (17% N, 11% P₂O₅, 22% K₂O).

Cultivations, etc.: Ploughed: Mar 8, 1963. Basal dressing applied: Apr 23. Rotary cultivated: Apr 24. Potatoes planted: Apr 25. Earthed up: June 19. Cu and M plots sprayed with mancozeb: July 11. Cu plots sprayed with copper oxychloride, M plots with mancozeb: July 23. A plots sprayed with BOV: Sept 13. Lifted: Oct 22. Variety: King Edward. Previous crops: Barley 1961, sugar beet 1962.

Note: Periodic samples were taken for the weight of tubers and an assessment of blight on foliage and in tubers was made. The haulm died early, mostly as a result of a severe aphid attack.

Standard error per plot.

Total tubers: 1.083 tons per acre or 14.3% (15 d.f.)

63/Da/5.2

Summary of Results

O	Treatment			Mean
	Cu	M	Cu A	
<u>Total tubers: tons per acre</u>				
8.51	6.72 (±0.441)	7.94	7.14	7.58
<u>Percentage ware (1.5 inch riddle)</u>				
83.5	69.8	79.6	73.3	76.6

Treatments

O = None
 Cu = Mancozeb* followed by one spraying with copper oxychloride fungicide**
 M = Mancozeb* applied twice
 Cu A = As treatment Cu but haulm burnt off*** when foliage 1% blighted on sprayed plots

* At 1.5 lb fungicide, containing 80% mancozeb, in 20 gallons per acre.
 ** At 2.3 lb Cu in 20 gallons per acre.
 *** With undiluted BCV at 16 gallons per acre.