

Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1963

[Full Table of Content](#)



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

Rothamsted Research

Rothamsted Research (1964) *63/W/WP201/DD/5 Potatoes - Control of Tuber Blight ; Yields Of The Field Experiments 1963*, pp 179 - 180 - DOI: <https://doi.org/10.23637/ERADOC-1-183>

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.