

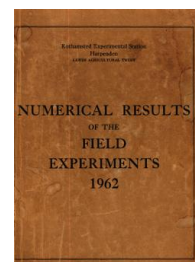
Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED  
RESEARCH

## Yields of the Field Experiments 1962

[Full Table of Content](#)



---

### 62/R/DD/2 Potatoes - Time of Burning Off Haulm

#### Rothamsted Research

Rothamsted Research (1963) *62/R/DD/2 Potatoes - Time of Burning Off Haulm* ; Yields Of The Field Experiments 1962, pp 137 - 138 - DOI: <https://doi.org/10.23637/ERADOC-1-164>

62/Da/2.1

## POTATOES

Time of burning off haulm - Great Knott III 1962.

Design: 4 randomised blocks of 10 plots each.

Area of each plot: 0.0565 acres. Area harvested: 0.0141 acres.

Treatments. All combinations of:-

Fungicide sprays: None (0); sprayed on 3 occasions (the first with maneb, the second and third with commercial copper oxychloride wettable powder) (Cu).

Burning off haulm: None (0); haulm burnt off when 1 - 5% (A); when 10 - 20% (B); when 50% (C) blighted on Cu plots.

In addition two plots per block (CuL C; MC) were sprayed as follows:-

CuL C: As "Cu" but all sprays applied later (1st and 2nd on dates of 2nd and 3rd sprayings of "Cu" plots).

MC: As "Cu", but all sprayings with maneb<sup>\*</sup>; both were burnt off at date C.

\* At  $1\frac{1}{2}$  lb active ingredient in 18 gallons per acre.

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

\*\*\* With undiluted BOV - A at 15 gallons, B and C at 18 gallons per acre each.

Note: In fact the haulm was burnt off when 1% (A); when 7% (B); and when 55% (C) blighted on Cu plots.

Basal dressing per acre: 20 tons of dung; 8 cwt compound fertiliser (10% N, 10% P<sub>2</sub>O<sub>5</sub>, 18% K<sub>2</sub>O).

Cultivations, etc.: Patches sprayed with dalapon at 8 lb in 40 gallons per acre: Sept 8, 1961 and again at 4 lb in 40 gallons per acre: Sept 27. Dung applied and ploughed in: Nov 21. Basal fertiliser applied, plots rotary cultivated, potatoes machine planted: Apr 16, 1962. Earthed up: July 3. Cu and MC plots sprayed with maneb: July 17. Cu plots sprayed with copper oxychloride, CuL C and MC plots with maneb: Aug 9. Cu and CuL C plots sprayed with copper oxychloride, MC plots with maneb: Aug 29. A plots sprayed with BOV: Sept 7. CuL C plots sprayed with copper oxychloride, B plots with BOV: Sept 14. C plots sprayed with BOV: Sept 25. Haulm destroyed mechanically: Oct 9. Lifted: Oct 18. Variety: King Edward. Previous crops: Winter wheat 1960, spring beans 1961.

Note: Periodic samples were taken for the weight of tops and tubers, and an assessment of blight on foliage and in tubers was made.

Standard error per plot.

Total tubers: 0.778 tons per acre or 5.1% (27 d.f.)

Summary of Results

Date of burning off

Spray	O	A	B	C	Mean
	<u>Total tubers: tons per acre</u>				
	(±0.389)				(±0.194)
O	14.70	13.85	13.87	14.74	14.29
Cu	17.09	14.34	15.78	16.02	15.81
Mean (±0.275)	15.90	14.10	14.82	15.38	15.05 (±0.138)
	CuL C	MC			
	16.43	16.85			
	(±0.389)				

General mean: 15.37

Percentage ware (1 1/2" riddle)

O	92.9	92.7	92.9	92.5	92.8
Cu	94.2	92.6	93.9	94.1	93.7
Mean	93.6	92.6	93.4	93.3	93.2
	CuL C	MC			
	93.7	94.3			

General mean: 93.4

Date of burning off

O = None

A = Haulm burnt off when 1 - 5%

B = When 10 - 20%

C = Blighted on Cu plots.

Sprays

O = None

Cu = Sprayed on 3 occasions (the first with maneb\*, the second and third with commercial copper oxychloride wetttable powder\*\*)

CuL C = As "Cu" but all sprays applied later (1st and 2nd on dates of 2nd and 3rd sprayings of "Cu" plots\*).

MC = As "Cu", but all sprayings with maneb; both were burnt off at date C.

\* At 1 1/2 lb active ingredient in 18 gallons per acre.

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

\*\*\* With undiluted BOV - A at 15 gallons, B and C at 18 gallons per acre each.