

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 1965

[Full Table of Content](#)



65/R/RP501/DD/5 Potatoes - Times of Burning Off

Rothamsted Research

Rothamsted Research (1966) *65/R/RP501/DD/5 Potatoes - Times of Burning Off*; Yields Of The Field Experiments 1965, pp 269 - 270 - DOI: <https://doi.org/10.23637/ERADOC-1-159>

65/Da/5.1

POTATOES

(RP 501)

Times of burning off haulm - Great Knott I 1965.

Design: 4 randomised blocks of 14 plots (11 for yield).

Area of each plot: 0.0424. Area harvested: 0.0141.

Treatments:

Fungicide sprays* and times
of application

Times of burning off**

None (O)

None (O)

Early 4 (E+)

None (O)

Early 3 (E)

(A)

Early 4 (E+)

(A)

Late 3 (L)

(A)

Early 3 (E)

(B)

Early 4 (E+)

(B)

Late 3 (L)

(B)

Late 4 (L+)

(B)

(see below)

Early 4 (E+)

(C)

Early 4 (E+) (Sprayed with insecticide***) (I) (B)

Each block also contained 3 plots for sampling (no yields). Of these 12 plots 6 were treated as O and 6 as E+O. The early burning off (A) took place when the mean destruction by blight of the remaining tops on the E+O yield plots (50% was already dead) was 4.7%, the second burning off at 15% (50% senility), the third at 29% (55% senility). The first fungicide sprays were applied before the Ministry of Agriculture's blight warning.

NOTE: The final fungicide spray was not applied because blight on the haulm had already reached the stage for acid destruction, therefore L + B = LB.

* 1.2 lb mancozeb in 34 gals.

** With undiluted BCV at 15 gals.

*** Menazon (Saphicol at 0.25 lb in 34 gals).

Basal applications: 8 tons dung, 7 cwt (17:11:22).

Cultivations, etc.: Dung applied, all plots ploughed: Nov 20, 1964. Fertiliser applied: Apr 7, 1965. Rotary cultivated, potatoes machine planted: Apr 8. Earthed up: June 14. First spraying with mancozeb (E,E+): June 28. Menazon spray applied and second spraying with mancozeb (E,E+,L,L+): July 14. Third spraying with

65/Dd/5.2

mancozeb (E,E+,L,L+): July 26, fourth (E+,L,L+): Aug 9.
A plots sprayed with BOV: Aug 13, B plots: Aug 19, C plots:
Sept 2. Lifted: Oct 13. Variety: King Edward. Previous
crops: Spring wheat 1963, barley 1964.

NOTE: Destruction of foliage was assessed at weekly intervals from
the blight outbreak until total destruction. Periodic samples
were taken from the sample plots for weights of tubers and
blight assessment in tubers.

Standard error per plot.

Total tubers: 1.226 or 7.0% (31 d.f.)

SUMMARY OF RESULTS

		Total tubers	% ware
		(± 0.613)	
O	O	16.04	94.8
E+	O	19.57	96.6
E	A	16.11	94.8
E+	A	16.55	96.1
L	A	16.90	95.0
E	B	17.39	95.5
E+	B	17.42	95.9
L	B	17.20 (± 0.434)	95.3
E+	C	18.51	96.0
E+I	B	18.49	95.3
Mean		17.40	95.5