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Yields of the Field Experiments 1965

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

Rothamsted Research

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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 O0 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