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Yields of the Field Experiments 1966

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66/R/RP11/1/DD/8 Potatoes - Time of Burning Off

Rothamsted Research

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66/Da/8.1

POTATOES

(RP 11/1)

Times of burning off haulm - Little Hoos 1966.

Design: 4 randomised blocks of 7 plots, plots being split into two for times of burning off.

Area of each sub plot: 0.0274. Area harvested: 0.0071.

Treatments:

Fungicide sprays* and times of application (whole plots)	Times of burning off** (sub plots)
None (O)	(O), (S)
Early 4 (E+)	(O), (S)
Early 4 (E+)	(B), (C)
Early 3 (E)	(B), (C)
Late 4 (L+)	(B), (C)
Late 3 (L)	(B), (C)
Early 4 (E+)	(A), (IC)

(O) Not burnt off

(A) Burnt off when mean destruction by blight of the remaining haulm on the (E+O) plots was 0.7% (31% senility)

(B) as (A) but 0.8% (58% senility)

(C) as (A) but 1.3% (68% senility)

(IC) as (C) but sprayed also with insecticide (menazon - 'Saphicol' at 10 fluid oz in 35 gals)

(S) sub plots for sampling (no yields recorded).

The first fungicide sprays were applied before the Ministry of Agriculture's blight warning.

* 1.5 lb fungicide containing 80% mancozeb in 35 gals.

** With undiluted BOV at 21 gals.

Basal applications: 13.5 tons dung, 7.75 cwt (17:11:22).

Cultivations, etc.: Dung applied: Jan 11, 1966. Ploughed: Jan 12. Fertiliser applied: Mar 3. Rotary cultivated, potatoes machine planted: Apr 6. Rotary ridged: June 15. Menazon spray applied, first spraying with mancozeb (E, E+): June 30. Second spraying with mancozeb (E, E+, L, L+): July 22, third (E, E+, L, L+): Aug 8, fourth (E+, L, L+): Aug 18, fifth (L+): Sept 8. (A) plots sprayed with BOV: Sept 8, (B) plots: Sept 16, (C) plots: Sept 23. Haulm destroyed mechanically: Sept 27. Lifted: Sept 28. Variety: King Edward. Previous crops: Barley 1964, fallow 1965.

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 assessment of blight in tubers.

66/Dd/8.2

Standard error per plot (Pooled).
 Total tubers: 0.972 or 4.4% (30 d.f.)

SUMMARY OF RESULTS

	O	E+	E	L+	L	Mean
TOTAL TUBERS						
			(±0.486)			
O	19.29	23.35				(±0.243)
B		22.81	21.64	22.39	23.09	22.48
C		22.15	21.95	21.64	23.80	22.38
A		21.29				
IC		21.68				
Mean of B & C		22.48	21.80 (±0.344)	22.01	23.44	22.09*
% WARE						
O	97.2	97.5				
B		97.5	96.4	97.3	97.3	97.1
C		97.4	97.1	97.4	97.7	97.4
A		97.4				
IC		97.8				
Mean of B & C		97.5	96.7	97.4	97.5	97.3*

* General mean