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64/R/RP201/DD/2 Potatoes - Time of Burning Off Haulm

Rothamsted Research

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64/Da/2.1

POTATOES

(RP 201)

Time of burning off haulm - Whittlocks 1964.

Design: 4 randomised blocks of 14 plots each (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 5 (E+)	None (O)
Early 4 (E)	(A)
Early 5 (E+)	(A)
Late 4 (L)	(A)
Early 4 (E)	(B)
Early 5 (E+)	(B)
Early 5 (E+)	(C) (See below)
Late 4 (L)	(B)
Late 5 (L+)	(B)
Early 5 (E+). Sprayed with insecticide(I) (0.25 lb, menazon in 50 gals)	(B)

Each block also contained 3 plots for sampling (no yields), of these 12 plots 6 were treated as OO - and 6 as EO. The early burning off (A) took place when the mean destruction by blight on control plots was 39% and on sprayed plots (E+) was 0.5%. The late burning off (B) took place when the haulm had almost died because of the dry weather.

NOTE: It was intended to have a later burning off (C) but the season made this unnecessary and so C = B.

* 1.5 lb fungicide containing 80% mancozeb in 50 gals.

** With undiluted BOV at 15 gals.

Basal dressing: 8.5 tons dung, 8 cwt 17:11:22.

Cultivations, etc.: Ploughed: Oct 11, 1963. Dung applied: Feb 6, 1964. Rotary cultivated: Feb 12. Basal dressing applied: Apr 2. Rotary cultivated, potatoes machine planted: Apr 27. Earthed up: June 12. Menazon sprays applied: June 25 and July 24. First spraying with mancozeb (E, E+): June 25, second (E, E+, L, L+): July 13, third (E, E+, L, L+): July 24, fourth (E, E+, L, L+): Aug 7, fifth (E+, L, L+): Aug 20, final (L+): Sept 3. A plots sprayed with BOV: Sept 7. B plots sprayed with BOV: Sept 21. Lifted: Sept 30.

64/Dd/2.2

Variety: King Edward. Previous crops: Winter and spring wheat 1962, spring wheat 1963.

NOTE: Periodic samples were taken from the sample plots for weights of tubers and blight assessment in tubers.

Standard error per plot.

Total tubers: 0.870 or 6.7% (31 d.f.)

SUMMARY OF RESULTS

		Total tubers	% ware
		(±0.435)	
O	O	12.53	95.2
E+	O	13.86	96.2
E	A	12.31	94.3
E+	A	12.40	95.4
L	A	12.48	94.1
E	B	12.84	95.1
E+	B	13.14 (±0.308)	94.4
L	B	12.92	94.7
L+	B	12.64	93.9
E+I	B	13.53	95.1
Mean		12.89	94.8