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70/R/P/13 Potatoes Blight Reference Plots

Rothamsted Research

Rothamsted Research (1971) *70/R/P/13 Potatoes Blight Reference Plots* ; Numerical Results Of The Field Experiments 1970, pp 310 - 311 - DOI: <https://doi.org/10.23637/ERADOC-1-59>

POTATOES

(70/R/P/13)

Blight reference plots, Long Hoos IV 1970.

Design: 4 randomised blocks of 3 plots, split into 2.

Area of each sub plot: 0.0071. Area harvested: 0.0067.

Treatments: All combinations of:-

Whole plots: 1. Fungicide spray: None (O), mancozeb at 1.2 lb in 40 gals on 2 occasions (F), mancozeb at 1.2 lb in 40 gals on 2 occasions, plots used for sampling only (no yields recorded) (FS).

Sub plots: 2. Varieties: King Edward (KE), Pentland Crown (PC).

Basal applications: 1120 lb (13:13:20). Weedkiller: Linuron at 1 lb in 39 gals. Insecticide: Demeton-s-methyl at 3.5 oz in 40 gals.

Cultivations, etc.: Deep-tine cultivated: 10 Nov, 1969. Rotary cultivated: 15 Oct. Deep-tine cultivated: 20 Oct. Basal NPK applied: 23 Apr, 1970. Rotary cultivated, potatoes machine planted: 1 May. Weedkiller applied: 23 May. Grubbed and rotary ridged: 18 June. Insecticide applied to all plots, mancozeb applied to F and FS plots: 13 July. Mancozeb applied to F and FS plots: 14 Aug. Sprayed with undiluted BOV at 15 gals: 3 Sept. Lifted: 16 Sept. Previous crops: Barley 1968, spring beans 1969.

NOTE: Tubers were examined for blight (*Phytophthora infestans*).

Standard error per sub plot.

Total tubers, tons: Sub plot: 0.572 or 5.7% (6 d.f.)

70/B/P/13

SUMMARY OF RESULTS

	KE	PC	Mean
TOTAL TUBERS: TONS			
(±0.286)*			
O	10.95	9.59	10.27
F	10.55	9.29	9.92
Mean (±0.202)	10.75	9.44	10.10
% WARE: 1.5 INCH			
O	89.7	97.8	93.8
F	90.3	97.8	94.1
Mean	90.0	97.8	93.9

* For use in horizontal and interaction comparisons only