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Numerical Results of the Field Experiments 1970

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70/W/P/2 Potatoes Nematodes and Verticillium

Rothamsted Research

Rothamsted Research (1971) *70/W/P/2 Potatoes Nematodes and Verticillium ; Numerical Results Of The Field Experiments 1970*, pp 295 - 296 - DOI: <https://doi.org/10.23637/ERADOC-1-59>

POTATOES

(70/W/P/2)

Nematodes and Verticillium - Woburn Broadmead I 1970.

Design: 4 randomised blocks of 4 plots.

Area of each plot: 0.0094. Area harvested: 0.0036.

Treatments:

Chemicals: None (D), methyl bromide at 870 lb (M) 'Temik'
(aldicarb) at 6 lb a.i. (T), benomyl at 20 lb a.i. (B).

Basal applications: 10 cwt (13:13:20), 9 cwt Epsom salts. Weedkiller:
Linuron at 1.5 lb plus paraquat at 0.37 lb ion in 33 gals, paraquat
at 0.025 lb ion in 28 gals. Fungicide: Mancozeb at 1.2 lb in
37 gals on two occasions. Insecticide: Demeton-s-methyl at 3.5
fl oz in 37 gals on one occasion with mancozeb.

Cultivations: Rotary cultivated twice: 10 Sept, 1969, 10 Oct. Deep-
tine cultivated: 2 Jan, 1970. NPK applied: 2 Apr. Mg applied:
8 Apr. Methyl bromide applied under gas tight sheet: 22 Apr.
Gas tight sheet removed: 29 Apr. 'Temik' and benomyl applied,
rotary cultivated, potatoes planted: 30 Apr. Linuron plus paraquat
applied: 13 May. Paraquat applied between rows: 2 June. Grubbed,
rotary ridged: 6 June. Fungicide with insecticide applied:
31 July. Fungicide applied: 18 Aug. Sprayed with undiluted BCV
at 20 gals: 7 Sept. Lifted: 15 Sept. Variety: Pentland Dell.
Previous crops: Winter wheat 1968, potatoes 1969.

NOTE: Soil samples were taken after lifting for *Heterodera rostochiensis*
cyst counts.

Standard error per plot:

Total tubers, tons: 1.313 or 19.3% (9 d.f.)

70/W/P/2

SUMMARY OF RESULTS

O	M	T	B	Mean
TOTAL TUBERS: TONS				
(±0.656)				
1.96	14.18	6.26	4.84	6.81
% WARE: 1.75 INCH				
34.5	91.8	84.1	69.4	70.0