

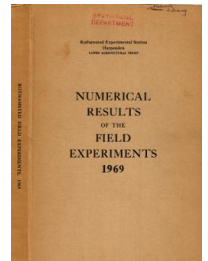
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Numerical Results of the Field Experiments 1969

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69/W/P/2 - Nematodes & Verticillium - Potatoes

Rothamsted Research

Rothamsted Research (1970) *69/W/P/2 - Nematodes & Verticillium - Potatoes ; Numerical Results Of The Field Experiments 1969*, pp 304 - 305 - DOI: <https://doi.org/10.23637/ERADOC-1-96>

POTATOES

(69/W/P/2)

Nematodes and verticillium - Woburn Broadmead I 1969.

Design: 4 randomised blocks of 6 plots.

Area of each plot: 0.0094. Area harvested: 0.0047.

Treatments:

Chemicals and wheelmarks: None (OO), methyl bromide at 870 lb, with wheelmarks on 3 occasions (MW), methyl bromide at 870 lb, without wheelmarks (MO), temik at 60 lb a.i., without wheelmarks (TO), benomyl at 10 lb of 50% wettable powder per ton of seed, without wheelmarks (BO), wheelmarks on 3 occasions (OW).

Basal applications: 10 cwt (13:13:20), 5 cwt Epsom salts. Weedkiller:

Paraquat at 0.5 lb ion plus linuron at 0.5 lb in 25 gals.

Fungicide: Mancozeb at 1.2 lb in 37 gals on 3 occasions.

Insecticide: Demeton-s-methyl at 3.5 oz in 37 gals on one occasion with fungicide.

Cultivations, etc.: Ploughed: 20 Nov, 1968. NPK applied: 8 Apr, 1969.

Mg applied, methyl bromide applied under gas tight sheet:

9 Apr. Gas tight sheet removed: 14 Apr. Rotary cultivated,

potatoes planted: 25 Apr. Weedkiller applied: 15 May.

Wheelmarks applied to MW and W plots: 12 June. Grubbed, rotary

ridged MW and W plots only: 18 June. Wheelmarks applied to MW and W

plots: 14 July. Fungicide applied: 18 July, 6 Aug, 27 Aug.

Insecticide applied: 18 July. Lifted: 24 Sept. Variety:

King Edward.

NOTE: Plant samples were taken for *Heterodera rostochiensis* cyst counts in June.

Standard error per plot.

Total tubers, tons: 1.751 or 13.1% (15 d.f.)

SUMMARY OF RESULTS

OO	MW	MO	TO	BO	OW	Mean
TOTAL TUBERS: TONS						
(± 0.876)						
9.95	17.76	17.66	14.23	10.44	9.97	13.34
% WARE						
83.7	83.8	84.7	79.2	80.8	83.9	82.7