

Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1971

[Full Table of Content](#)



71/W/CS/34 Nematicides in Crop Sequence - Potatoes

Rothamsted Research

Rothamsted Research (1972) *71/W/CS/34 Nematicides in Crop Sequence - Potatoes* ; Yields Of The Field Experiments 1971, pp 168 - 169 - DOI: <https://doi.org/10.23637/ERADOC-1-97>

71/W/CS/34

NEMATICIDES IN CROP SEQUENCE

Object: To study the effects of three nematicides on *Heterodera rostochiensis* and yield of potatoes grown continuously for three years - Woburn Great Hill II and III.

The third year of continuous potatoes - first year of treatments.

Design: 4 series of 3 blocks of 10 plots.

NOTE: Only Series I received treatments, the other three series continued in untreated susceptible potatoes.

Whole plot dimensions: 4.27 x 9.14. Area harvested: 0.00130.

Treatments: None (0), together with all combinations of:-
(1) Nematicides: Aldicarb (A), Du Pont 1410 (D), Nemacur P (N).
(2) Levels: 2.8, 6.0, 11.0 kg a.i.

Basal applications: 1883 kg (13:13:20). Weedkiller: Linuron at 1.12 kg in 371 l. Fungicide with insecticide: Mancozeb at 1.34 kg with demeton-s-methyl at 246 ml in 416 l.

Cultivations, etc.: Deep-tine cultivated: 24 Oct, 1970. NPK applied: 2 Apr, 1971. Treatments applied, rotary cultivated: 5 Apr. Potatoes planted: 6 Apr. Weedkiller applied: 5 - 6 May. Rotary ridged: 1 June. Fungicide with insecticide applied: 28 - 29 June. Haulm mechanically destroyed: 17 Sept. Sprayed with undiluted BOV at 225 l: 20 Sept. Lifted: 5 Oct. Variety: Pentland Crown.

NOTE: Soil samples were taken before treatment applications and after harvest for cyst, egg and larvae counts of *Heterodera rostochiensis*.

Standard error per plot.

Total tubers, tonnes/hectare: 3.63 or 9.9% (6 d.f.)

7L/W/CS/34

SUMMARY OF RESULTS

A.I: KG/HA

	2.8	6.0	11.0	Mean
TOTAL TUBERS: TONNES/HECTARE				
	(±2.10)*			(±1.21)
A	39.9	36.9	46.4	41.1
D	35.6	38.3	43.2	39.0
N	27.9	29.8	31.3	29.7
Mean (±1.21)	34.4	35.0	40.3	36.6

□ 15.1 (±2.10)

General mean: 34.4

% WARE: 3.81 CM (1.5 INCH) RIDDLE

A	92.3	91.6	93.6	92.5
D	90.4	91.1	91.4	90.9
N	87.1	87.6	88.6	87.8
Mean	89.9	90.1	91.2	90.4

□ 77.5

General mean: 89.1