

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/51 Autumn and Spring Fumigants - Potatoes

Rothamsted Research

Rothamsted Research (1972) *71/W/CS/51 Autumn and Spring Fumigants - Potatoes* ; Yields Of The Field Experiments 1971, pp 184 - 185 - DOI: <https://doi.org/10.23637/ERADOC-1-97>

71/W/CS/51

AUTUMN AND SPRING FUMIGANTS

Object: To study the effects of rates and methods of applying dazomet on *Heterodera rostochiensis* and yield of potatoes grown continuously for two years (ignoring times and methods of application in 1970) - Butt Close, Woburn.

The second year, potatoes.

For previous year see 70/W/CS/51(t).

Design: 4 blocks of 8 plots.

Whole plot dimensions: 2.84 x 6.10. Area harvested: 0.00087.

Treatments: Nematicides:-

1970	1971	
None	None	(O) O
336 kg dazomet	336 kg dazomet before ploughing	(D) D2
336 kg dazomet	336 kg dazomet before ploughing, 168 kg after ploughing	(D) D2+1
336 kg dazomet	168 kg dazomet before ploughing, 168 kg after ploughing	(D) D1+1
336 kg dazomet	168 kg dazomet before ploughing, 168 kg after ploughing but ridged in autumn	(D) D1+1R
336 kg 'Telone'	168 kg dazomet before ploughing, 168 kg after ploughing	(T) D1+1
336 kg 'Telone'	168 kg dazomet before ploughing, 168 kg after ploughing rolled flat after ploughing	(T) D1+1F

Each application of dazomet (1971) was rotary cultivated in.

Basal applications: 1255 kg (13:13:20). Weedkiller: Linuron at 1.12 kg in 37l l. Fungicide with insecticide: Mancozeb at 1.34 kg and demeton-s-methyl at 246 ml in 416 l. Fungicide: Mancozeb at 1.34 kg in 37l l.

Cultivations, etc.: First dazomet treatments applied all plots, rotary cultivated, ploughed: 19 Oct, 1970. Second dazomet treatments applied and these plots only rotary cultivated, R plots ridged up, F plots rolled: 20 Oct. Fertiliser applied, potatoes planted, inter-row rotary cultivated and ridged up: 7 Apr, 1971. Weedkiller applied: 5 May. Fungicide with insecticide applied: 28 June. Fungicide applied: 13 Aug. Haulm destroyed mechanically: 17 Sept. Sprayed with undiluted BOV at 225 l: 20 Sept. Potatoes lifted: 5 Oct. Variety: Majestic.

NOTE: Soil samples were taken after harvest at 20.3 cm and 61.0 cm for nematode counts.

71/W/CS/51

Standard error per plot.

Total tubers, tonnes/hectare: 4.29 or 12.0% (21 d.f.)

SUMMARY OF RESULTS

(O)O	(D)D2	(D)D2+1	(D)D1+1	(D)D1+1R	(T)D1+1	(T)D1+1F	Mean
TOTAL TUBERS: TONNES/HECTARE							
(±1.52)				(±2.15)			
10.3	41.5	51.4	39.1	38.6	47.2	48.0	35.8
% WARE: 3.81 CM (1.5 INCH) RIDDLE							
62.4	90.2	94.1	91.4	89.7	92.4	93.5	84.5