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Numerical Results of the Field Experiments 1968

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68/C/27 Placement of Fumigant for Potatoes

Rothamsted Research

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68/c/26.10

DRY MATTER					
	O	I	E	G	Mean
STACKYARD B (W)					
TOTAL OF 3 CUTS					
Mean (± 1.55)	32.1	31.2	39.7	55.7	39.7
		(1) and (2)			(± 0.88)
U	31.2	28.6	36.2	56.6	38.2
M	33.0	33.8	43.1	54.9	41.2
		(3) and (4)			(± 1.24)
N0	16.3	17.4	30.3	13.6	19.4
N1	31.4	31.3	41.2	45.9	37.4
N2	36.3	34.5	44.1	70.5	46.3
N3	44.5	41.7	43.1	93.0	55.6

Mean D.M. %: 17.9

- (1) (± 1.99) (3) (± 2.65) For use in horizontal and diagonal comparisons only
- (2) (± 1.76) (4) (± 2.48) For use in vertical and interaction comparisons only

68/C/27.1

PLACEMENT OF FUMIGANT FOR POTATOES

(WMAM)

Economic row and planting-station fumigation for control of potato cyst-nematode - Woburn Butt Furlong 1968 second year.

Design: 3 randomised blocks of 5 plots.

Area of each plot: 0.0024. Area harvested: 0.0024.

Treatments:

Fumigants: DD: None (D0), 56(D1), 112 (D2), 224 (D4), 448 lb (D8) (DH in 1967) placed in the row at base of ridge. (Treatments D0, D1, D2, D4 cumulative with 1967).

Basal applications: Magnesian limestone 4.5 cwt. 10.5 cwt (13:13:20) side placed. Weedkiller: Paraquat at 0.38 lb plus linuron at 0.5 lb in 50 gals. Insecticide: Menazon at 0.25 lb in 50 gals. Fungicide: Mancozeb at 1.2 lb in 38 gals applied on 2 occasions.

Cultivations, etc.: Ploughed: 2 Oct, 1967. Magnesian limestone applied: 25 Oct. Deep-tine cultivated: 10 Nov. Ridged: 6 Mar, 1968. DD applied at centre of base of ridge, re-ridged: 7 Mar. Rolled: 11 Mar. NPK applied, potatoes planted: 25 Apr. Weedkiller applied: 2 May. Insecticide applied: 18 June. Fungicide applied: 18 July, 30 July. Sprayed with undiluted BOV at 15 gals: 4 Sept. Lifted: 13 Sept. Variety: Majestic.

NOTES: (1). Soil samples were taken for nematode counts in March before fumigating, and again in April before planting.
(2) For previous year's results see 'Results' 67/C/34.

Standard error per plot.

Total tubers: 1.322 or 15.3% (8 d.f.)

68/c/27.2

SUMMARY OF RESULTS

D0	D1	D2	D4	D8	Mean
TOTAL TUBERS					
(±0.763)					
6.33	5.86	7.87	10.68	12.50	8.65
% WARE					
83.1	82.0	88.5	89.9	91.0	86.9