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67/W/WEAM/C/34 Placement of Fumigant

Rothamsted Research

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67/C/34.1

PLACEMENT OF FUMIGANT FOR POTATOES

(WEAM)

Economic row and planting-station fumigation for control of potato cyst-nematode - Woburn Butt Furlong 1967.

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 lb (D4) placed in the row by gravity feed, and 140 lb (DH) injected into the row at 18 in. intervals.

Basal applications: 10 cwt (17:11:22). Weedkiller: Paraquat at 0.5 lb plus linuron at 0.25 lb in 30 gals. Fungicide: Mancozeb 1.2 lb in 37 gals on 2 occasions.

Cultivations, etc.: Ploughed: Dec 19, 1966. Basal NPK applied: Mar 3, 1967. Rotary cultivated, rotary ridged, DD applied in the ridge: Mar 7. Potatoes hand planted in ridges at 18 inch intervals: Apr 19. Sprayed weedkiller: May 9. Rotary ridged: June 9. Sprayed fungicide: July 1 and July 26. Lifted: Sept 6. Variety: Majestic. Previous crops: Barley 1965, potatoes 1966.

Standard error per plot.

Total tubers: 0.668 or 8.9% (8 d.f.)

67/C/34.2

SUMMARY OF RESULTS

DO	D1	D2	D4	DH	Mean
TOTAL TUBERS					
2.21	6.62	8.54 (±0.386)	12.29	7.92	7.52
% WARE					
51.9	68.7	76.4	81.0	71.3	69.9