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69/W/CS/20 - Placement of Fumigant - Potatoes

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PLACEMENT OF FUMIGANT FOR POTATOES

(69/W/CS/20)

Economic row fumigation for control of potato cyst-nematode - Woburn Butt Furlong 1969 third year.

For treatments etc., see 'Results' 68/C/27 and for previous years' results see 'Results' 67/C/34 and 68/C/27. In 1969 the treatments were repeated exactly as in 1968.

Area of each plot 0.0024. Area harvested: 0.0024.

Basal applications: 10 cwt (13:13:20). Weedkiller: Paraquat at 0.37 lb ion plus linuron 0.5 lb in 25 gals. Fungicide: Mancozeb at 1.2 lb in 37 gals on three occasions. Insecticide: Demeton-s-methyl at 3.5 oz in 37 gals on one occasion with fungicide.

Cultivations, etc.: Ploughed: 14 Oct, 1968. Basal NPK applied, rotary cultivated, ridged: 1 Apr, 1969. DD applied, reridged: 2 Apr. Potatoes planted: 5 May. Weedkiller applied: 16 May. Fungicide applied: 18 July, 7 Aug, 27 Aug. Insecticide applied: 18 July. Lifted: 18 Sept. Variety: Majestic.

NOTE: Soil samples were taken in April before DD was applied and again in May for cyst counts.

Standard error per plot.

Total tubers, tons: 1.068 or 12.0% (8 d.f.)

SUMMARY OF RESULTS

| DC | D1 | D2 | D4 | D8 | Mean |
|--------------------|------|------|-------|-------|------|
| TOTAL TUBERS: TONS | | | | | |
| (±0.617) | | | | | |
| 6.98 | 7.25 | 7.87 | 10.25 | 12.16 | 8.90 |
| % WARE | | | | | |
| 64.7 | 64.3 | 70.7 | 74.2 | 75.3 | 69.8 |