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

Rothamsted Research

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71/W/CS/20

PLACEMENT OF FUMIGANT

Object: To study the cumulative effects of soil fumigation on *Heterodera rostochiensis* and yield of potatoes grown continuously for five years - Woburn Butt Furlong.

The fifth year, potatoes.

For previous years see 67/C/34(t), 68/C/27(t), 69/W/CS/20 and 70/W/CS/20(t).

Whole plot dimensions: 2.13 x 4.57. Area harvested: 0.00098.

Treatments:

0, 84, 168, 336, 672 kg dazomet (applied cumulatively to previous rates of treatment).

Basal applications: 1380 kg (13:13:20). Weedkiller: Linuron at 1.12 kg in 37l l. Fungicide with insecticide: Mancozeb at 1.34 kg plus demeton-s-methyl at 246 ml in 416 l.

Cultivations, etc.: Ploughed: 10 Oct, 1970. Dazomet applied, rotary cultivated: 20 Oct. Deep-tine cultivated, NPK applied, potatoes planted, inter-row rotary cultivated and earthed up: 8 Apr, 1971. Weedkiller applied: 6 May. Fungicide with insecticide applied: 28 June. Haulm destroyed mechanically: 17 Sept. Sprayed with undiluted BOV at 225 l: 20 Sept. Lifted by hand: 8 Oct. Variety: Majestic.

NOTE: Soil samples were taken before planting and after harvest for cyst counts.

Standard error per plot.

Total tubers, tonnes/hectare: 3.84 or 15.6% (8 d.f.)

71/W/CS/20

SUMMARY OF RESULTS

DAZOMET: KG/HA

0	84	168	336	672	Mean
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TOTAL TUBERS: TONNES/HECTARE

(± 2.22)

15.3	21.2	22.7	28.9	35.2	24.6
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% WARE: 3.81 CM (1.5 INCH) RIDDLE

48.2	64.9	74.2	84.4	82.9	70.9
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