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70/W/CS/51 Autumn and Spring Fumigants - Potatoes

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AUTUMN AND SPRING FUMIGANTS

(70/W/CS/51)

Effects of autumn and spring application of fumigants on potatoes -
Woburn Butt Close 1st year.

Design: 4 randomised blocks of 8 plots.

Area of each plot: 0.0043. Area harvested: 0.0021.

Treatments:-

Fumigants and placement

No fumigant ridged in autumn, re-ridged at planting	(OAR)
No fumigant ridged at planting	(OSF)
300 lb dazomet applied in autumn then ridged, re-ridged at planting	(DAR)
300 lb dazomet applied in autumn, ridged at planting	(DAF)
300 lb dazomet applied in spring then ridged, re-ridged at planting	(DSR)
300 lb dazomet applied in spring, ridged at planting	(DSF)
300 lb 'Telone' applied in autumn at base of ridges made in autumn, re-ridged at planting	(TAR)
300 lb 'Telone' applied in spring at base of ridges made in spring, re-ridged at planting	(TSR)

Basal applications: 12.5 cwt (13:13:20). Weedkiller: Linuron at 1.0 lb in 33 gals. Fungicide: Mancozeb at 1.2 lb in 37 gals on one occasion with insecticide. Insecticide: Demeton-s-methyl at 3.5 fl oz in 37 gals on one occasion with fungicide.

Cultivations, etc.: Ploughed: 9 Oct, 1969. Dazomet applied to DAR and DAF plots and rotary cultivated: 15 Oct. OAR, DAR and TAR plots ridged up, 'Telone' applied to TAR plots: 17 Oct. Dazomet applied to DSR and DSF plots and rotary cultivated, DSR and TSR plots ridged up, 'Telone' applied to TSR plots: 20 Mar, 1970. All plots deep-tine cultivated and spring-tine cultivated with markers on: 4 May. Fertiliser placed and potatoes planted, all plots inter-row rotary cultivated and ridged up: 5 May. Weedkiller applied 15 May. Fungicide plus insecticide applied: 31 July. Potatoes lifted: 2 Oct. Variety: Majestic. Previous crops: Potatoes 1968 and 1969.

NOTE: Soil samples were taken in autumn before applying treatments in spring, at planting and after harvest from all plots. Deep samples were taken from some plots after harvest. Samples were used to estimate the effects of treatments on *Heterodera rostochiensis*.

Standard error per plot.

Total tubers, tons: 2.442 or 15.6% (21 d.f.)

70/W/CS/51

SUMMARY OF RESULTS

OAR	OSF	DAR	DAF	DSR	DSF	TAR	TSR	Mean
TOTAL TUBERS: TONS								
(+1.221)								
8.78	8.18	18.02	19.90	21.98	20.37	15.03	12.92	15.65
% WARE: 1.5 INCH								
82.9	83.0	88.6	91.0	91.5	93.8	89.4	88.8	88.6