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71/W/CS/64 Fumigants and *Ditylenchus* - Onions

Rothamsted Research

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71/W/CS/64

FUMIGANTS AND DITYLENCHUS

Object: To study the effects of a range of rates of aldicarb and dazomet on yield of onions and incidence of *Ditylenchus dipsaci* - Woburn Butt Close.

First year, onions.

Design: 3 blocks of 10 plots.

Whole plot dimensions: 1.52 x 6.10. Area harvested: 0.00056.

Treatments:

Fumigants: None (0) 2 plots per block, 2.25 (T1), 4.5 (T2), 6.75 (T3), 9.0 (T4) kg aldicarb, 225 (D1), 450 (D2), 675 (D3), 900 (D4) kg dazomet.

NOTE: Dazomet applied in autumn and rotary cultivated in, aldicarb applied in spring before sowing.

Basal applications: 1260 kg (13:13:20).

Irrigation (mm water):

29 Mar 2mm	16 Apr 3mm	3 June 3mm	
1 Apr 3mm	30 Apr 3mm	7 June 3mm	
5 Apr 2mm	4 May 3mm	5 July 12mm	
8 Apr 3mm	13 May 3mm	15 July 24mm	
13 Apr 2mm	21 May 3mm	21 July 24mm	Total 93 mm

Inoculum: Field bean stems infected with *Ditylenchus dipsaci*. Weed-killers: Propachlor at 4.7 kg in 24.7 l. Pyrazon at 1.12 kg with chlorbufam at 0.91 kg in 24.7 l.

Cultivations, etc.: Ploughed: 3 Sept, 1970. Deep-tine cultivated, field bean stems applied, rotary cultivated: 24 Oct. Dazomet applied, all plots rotary cultivated: 15 Dec. NPK applied: 9 Mar, 1971. Aldicarb applied, all plots rotary cultivated, seed drilled at 6.7 kg: 10 Mar. Propachlor applied: 25 Mar. Hand weeded: 18 May. Pyrazon with chlorbufam applied: 1 June. Hand lifted: 25 Aug. Variety: Robusta. Previous crops: Barley 1969, spring beans 1970.

NOTE: Soil samples were taken in December and August for counts of *Ditylenchus dipsaci*.

Standard error per plot.

Total weight, tonnes/hectare: 4.64 or 14.7% (18 d.f.)

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SUMMARY OF RESULTS

O*	T1	T2	T3	T4	D1	D2	D3	D4	Mean
TOTAL WEIGHT: TONNES/HECTARE									
(±1.89)	(±2.68)								
14.2	25.6	22.0	23.5	30.6	36.7	45.7	49.1	53.0	31.5
WEIGHT OVER 3.81 CM (1.5 INCH): TONNES/HECTARE									
9.2	20.8	16.1	17.3	23.8	31.6	42.3	47.5	51.1	26.9
TOTAL NUMBER: THOUSANDS/HECTARE									
373	506	529	472	636	684	553	485	535	514

* Duplicated level