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70/W/CS/28 Fumigants and Irrigation - Barley

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FUMIGANTS AND IRRIGATION

(70/W/CS/28)

The residual effects of fumigants for the control of *Pratylenchus* spp. in barley - Woburn Butt Close Series III, 3rd year. For design, treatments etc. and previous years' results see 'Results' 68/C/34 and 69/W/CS/28.

NOTE: Fumigant treatments are residual from 1968. Irrigation and nitrogen treatments are cumulative 1968, 1969 and 1970.

Area of each sub plot: 0.0050. Area harvested: 0.0020.

Basal applications: 280 lb (0:20:20). Weedkiller: Ioxynil at 7.5 oz and mecoprop at 22.5 oz in 25 gals.

Cultivations, etc.: Ploughed: 27 Aug, 1969. Power harrowed: 1 Nov. Deep-tine cultivated: 3 Nov. Power harrowed: 26 Mar, 1970. Seed combine drilled at 140 lb: 27 Mar. 'Nitro-Chalk' applied: 3 Apr. Weedkiller applied: 16 May. Irrigation applied at 1.0 inch on five occasions: 9 June, 11 June, 16 June, 22 June, 7 July. Combine harvested: 26 Aug. Variety: Maris Badger.

NOTE: Crop and soil samples were taken at intervals through the growing season for nematode counts.

Standard errors per plot. Grain, cwt:
Whole plot: 1.81 or 7.1% (6 d.f.)
Quarter plot: 2.26 or 8.9% (24 d.f.)
Eighth plot: 2.80 or 11.0% (32 d.f.)

70/W/CS/28

SUMMARY OF RESULTS

GRAIN: CWT

1968

	O	C	D	T	Mean
1968 - 70	(1) and (2)				(±0.74)
O	15.6	21.9	23.5	17.6	19.7
I	30.3	30.4	32.9	30.8	31.1
1968 - 70					
	N0	N1	N2	N3	
	(3) and (4)				
O	9.2	22.1	24.3	23.2	
I	12.9	34.1	42.3	35.3	
1968	(5) and (6)				(±0.65)
O	10.4	24.5	31.6	25.4	23.0
C	12.0	26.9	35.7	30.1	26.2
D	11.0	32.7	36.1	32.9	28.2
T	10.8	28.0	29.7	28.5	24.2
Mean (±0.57)	11.0	28.1	33.3	29.2	25.4

Mean D.M. %: 85.0

- (1) (±1.09) (3) (±1.02) (5) (±1.19) For use in vertical and diagonal comparisons only
 (2) (±0.92) (4) (±0.81) (6) (±1.14) For use in horizontal and interaction comparisons only

70/W/CS/28

STRAW: CWT

1968

	O	C	D	T	Mean
1968 - 70					
O	10.9	13.9	15.2	12.0	13.0
I	24.9	24.0	27.1	24.7	25.2

1968 - 70

	NO	N1	N2	N3
O	6.1	14.0	16.1	15.9
I	8.8	24.5	34.6	32.8

1968

O	7.4	18.0	25.6	20.7	17.9
C	7.8	16.8	26.6	24.5	18.9
D	7.7	23.2	27.0	26.7	21.1
T	6.9	18.9	22.2	25.3	18.3
Mean	7.4	19.2	25.4	24.3	19.1

Mean D.M. %: 87.5