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69/W/CS/28 - Fumigants & Irrigation - Barley

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FUMIGANTS AND IRRIGATION

(69/W/CS/28)

The residual effects of fumigants for the control of *Pratylenchus* spp. in barley - Woburn Butt Close Series III, 2nd year. For design, treatments etc. and previous year's results see 'Results' 68/C/34.

Area of each sub plot: 0.0545. Area harvested: 0.0020.

Treatments: All combinations of:-

- Whole plots: 1. Irrigation: None (O), full irrigation (I).
Quarter plots: 2. Residues of fumigants 1968: None (O), chloropicrin (C), D-D (D), Temik (T).
Eighth plots: 3. Nitrogen in 1967 and 1968: None (NO), 0.4 (N1), 0.8 (N2), 1.2 (N3) cwt N as 'Nitro-Chalk'.

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: 12 Nov, 1968. Seed combine drilled at 140 lb: 11 Mar, 1969. 'Nitro-Chalk' applied: 4 Apr. Weedkiller applied: 14 May. Irrigation applied at 0.5 inches: June 13, and 0.5 inches: July 4. Combine harvested: 11 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: 1.62 or 5.2% (6 d.f.)
Quarter plot: 2.21 or 7.0% (24 d.f.)
Eighth plot: 3.14 or 10.0% (32 d.f.)

SUMMARY OF RESULTS

GRAIN:CWT

	O	C	D	T	Mean
	(1) and (2)				(±0.66)
O	27.8	32.5	34.0	28.3	30.6
I	30.2	32.1	35.4	31.5	32.3
	NO	N1	N2	N3	
	(1) and (2)				
O	14.9	34.7	39.4	33.5	
I	15.2	36.4	40.7	37.0	
	(3) and (4)				(±0.64)
O	13.0	32.5	37.8	32.7	29.0
C	15.4	33.3	43.1	37.6	32.3
D	18.3	41.4	42.0	37.2	34.7
T	13.6	35.0	37.4	33.5	29.9
Mean (±0.64)	15.1	35.6	40.1	35.2	31.5

Mean D.M.%: 84.8

(1) (±1.03) (3) (±1.28) For use in vertical and diagonal comparisons only.

(2) (±0.90) (4) (±1.28) For use in horizontal and interaction comparisons only.