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# Yields of the Field Experiments 1971

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## 71/W/CS/28 Fumigants and Irrigation - Barley

### Rothamsted Research

Rothamsted Research (1972) *71/W/CS/28 Fumigants and Irrigation - Barley*; Yields Of The Field Experiments 1971, pp 163 - 165 - DOI: <https://doi.org/10.23637/ERADOC-1-97>

71/W/CS/28

FUMIGANTS AND IRRIGATION

Object: To study the residual effects of 'D-D', chloropicrin and aldicarb, applied in 1968, on *Pratylenchus* and yield of barley grown continuously - Woburn Butt Close Series III.

The fourth year, barley.

For previous years see 68/C/34(t), 69/CS/28(t), 70/W/CS/28.

Whole plot dimensions: 14.5 x 15.2. Sub plot area harvested: 0.00080.

Basal applications: 303 kg (0:20:20). Weedkiller: Ioxynil at 0.525 kg and mecoprop at 1.58 kg in 281 l.

Cultivations, etc.: Sub soiled: 8 Sept, 1970. Rotary cultivated: 28 Sept and 17 Oct. Ploughed: 28 Oct. Seed combine drilled at 168 kg: 10 Mar, 1970. 'Nitro-Chalk' applied: 12 Mar. Weedkiller applied: 30 Apr. Irrigation applied at 38.1 mm: 20 - 21 May, at 12.7 mm: 8 June, 12.7 mm: 6 July, 25.4 mm: 9 July, 25.4 mm: 19 July. Combine harvested: 16 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, tonnes/hectare: Whole plot:	0.247 or 7.4% (6 d.f.)
Quarter plot:	0.212 or 6.4% (24 d.f.)
Eighth plot:	0.263 or 7.9% (32 d.f.)

71/W/CS/28

SUMMARY OF RESULTS

GRAIN: TONNES/HECTARE

1968

	O	C	D	T	Mean
1968 - 71	(1) and (2)				(±0.101)
O	3.19	3.44	3.43	3.25	3.33
I	3.42	3.24	3.32	3.26	3.31
N: KG/HA 1968 - 71					
	0	50	100	150	
	(3) and (4)				
O	1.37	3.55	4.30	4.11	
I	1.42	3.42	4.47	3.92	
1968	(5) and (6)				(±0.061)
O	1.36	3.51	4.40	3.94	3.31
C	1.49	3.14	4.65	4.08	3.34
D	1.25	3.79	4.36	4.11	3.38
T	1.47	3.51	4.12	3.93	3.26
Mean (±0.054)	1.39	3.49	4.38	4.01	3.32

(1) (±0.126) (3) (±0.120) (5) (±0.111) For use in vertical and diagonal comparisons only

(2) (±0.087) (4) (±0.076) (6) (±0.107) For use in horizontal and interaction comparisons only

Mean D.M. %: 82.4

71/W/CS/28

STRAW: TONNES/HECTARE

1968

	O	C	D	T	Mean
1968 - 71					
O	2.89	3.25	3.10	2.89	3.03
I	3.53	3.21	3.52	3.45	3.43
N: KG/HA 1968 - 71					
	0	50	100	150	
O	0.97	3.23	3.91	4.01	
I	1.25	3.43	4.62	4.40	
1968					
O	1.10	3.14	4.34	4.25	3.21
C	1.18	2.98	4.56	4.18	3.23
D	1.03	3.56	4.21	4.44	3.31
T	1.14	3.65	3.94	3.93	3.17
Mean	1.11	3.33	4.26	4.20	3.23

Mean D.M. %: 81.4