

Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1971

[Full Table of Content](#)



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