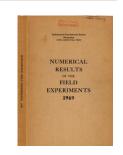
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Numerical Results of the Field Experiments 1969



Full Table of Content

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

Rothamsted Research

Rothamsted Research (1970) 69/W/CS/28 - Fumigants & Irrigation - Barley; Numerical Results Of The Field Experiments 1969, pp 201 - 202 - DOI: https://doi.org/10.23637/ERADOC-1-96

201

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 (0), full irrigation (I).

Quarter plots: 2. Residues of fumigants 1968: None (0),

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.)

202

SUMMARY OF RESULTS

GRAIN:CWT

A117 at 1	0	C	D	T	Mean
	(1) and (2)				(±0.66)
0	27.8	32.5 32.1	34.0 35.4	28.3 31.5	30.6 32.3
	NO	Nl	N2	N3	
	(1) and (2)				
O	14.9 15.2	34.7 36.4	39.4 40.7	33.5 37.0	
	(3) and (4)				(±0.64)
O C D T	13.0 15.4 18.3 13.6	32.5 33.3 41.4 35.0	37.8 43.1 42.0 37.4	32.7 37.6 37.2 33.5	29.0 32.3 34.7 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.