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Numerical Results of the Field Experiments 1969

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69/W/CS/21 - Nematicides (Ploughsole Dd) - Barley

Rothamsted Research

Rothamsted Research (1970) *69/W/CS/21 - Nematicides (Ploughsole Dd) - Barley* ; Numerical Results Of The Field Experiments 1969, pp 168 - 169 - DOI: <https://doi.org/10.23637/ERADOC-1-96>

RESIDUES OF NEMATOCIDES (FORMERLY PLOUGHSOLE D-D.)

(69/W/CS/21)

The residual effect of nematocides on barley after sugar beet -
Woburn Butt Furlong, 1969, the third year.

For treatments, previous years' results, etc., see 'Results'
67/C/40 and 68/C/33.

Design: 2 blocks of 3 plots split into 16.

Area of each sub plot: 0.0045. Area harvested: 0.0015.

Treatments: All combinations of:-

- Whole plots: 1. Residues of Nitrogen 1968: None (N0),
1.0 (N1) 2.0 cwt N (N2) as 'Nitro-Chalk'.
Strips of
Quarter plots: 2. Residues of D-D. 1967: None (D0) 65 (D1)
140 (D2), 250 lb D-D. (D3).
Strips of four quarter plots at right angles to quarter plots of
factor 2:
3. Residues of fumigants 1968 (F): None (F0),
82 lb Telone (D) 22.2 lb of 5% granules
Lannate (L), 10.6 lb of 10% granules
Temik (T).

Basal applications: 400 lb (20:10:10) Weedkiller: Ioxynil
octanoate, bromoxynil octanoate, iso-octyl ester of dichlorprop
('Oxytril P' at 1 pint in 25 gals).

Cultivations, etc: Ploughed: 17 Jan, 1969. Seed drilled at 140 lb:
11 Mar. Weedkiller applied: 14 May. Combine harvested: 7 Aug.
Variety: Zephyr.

Standard errors per plot. Grain, cwt:

For D & ND	7.89 or 13.3% (9 d.f.)
For F & NF	7.59 or 7.1% (9 d.f.)
For DF & NDF	3.59 or 8.1% (27 d.f.)

SUMMARY OF RESULTS

GRAIN: CWT

	DO	D1	D2	D3	O	D	L	T	Mean
	(±2.08)*				(±2.68)*				
NO	42.3	44.0	42.8	42.4	45.2	41.3	44.2	40.6	42.8
N1	44.8	47.6	41.7	40.2	46.4	36.8	45.9	45.1	43.6
N2	44.1	43.3	50.6	48.0	49.2	45.7	45.3	45.8	46.5
					(±1.47)				(±1.20)
				DO	45.4	41.3	45.4	42.9	43.7
				D1	47.1	41.2	46.1	45.3	44.9
				D2	46.7	42.5	46.4	44.5	45.0
				D3	48.7	40.0	42.6	42.8	43.5
Mean (±1.55)					47.0	41.3	45.1	43.9	44.3

Mean D.M.%: 84.9

* For use in horizontal and interaction comparisons only.