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Yields of the Field Experiments 1971

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71/W/CS/33 Rates of Nematicides Dosage - Barley

Rothamsted Research

Rothamsted Research (1972) *71/W/CS/33 Rates of Nematicides Dosage - Barley* ; Yields Of The Field Experiments 1971, pp 166 - 167 - DOI: <https://doi.org/10.23637/ERADOC-1-97>

71/W/CS/33

RATES OF NEMATOCIDES DOSAGE

Object: To study the residual effects on yield of barley of several nematocides applied at a range of rates (to potatoes 1969 and sugar beet 1970) - Woburn Butt Close.

The third year, barley.

For previous years see 69/W/CS/33(t) and 70/W/CS/33(t).

Whole plot dimensions: 10.7 x 1.93. Area harvested: 0.00027.

Basal applications: 398 kg (20:10:10). Weedkiller: Ioxynil at 0.525 kg and mecoprop at 1.58 kg in 281 l.

Cultivations, etc.: Ploughed: 10 Dec, 1970. Seed combine drilled at 157 kg: 17 Mar, 1971. Weedkiller applied: 30 Apr. Harvested by hand: 16 Aug. Variety: Julia.

NOTE: Soil samples were taken after harvest for cyst counts.

Standard error per plot.

Grain, tonnes/hectare: Whole plot: 0.361 or 8.0% (26 d.f.)
Sub plot: 0.430 or 9.5% (28 d.f.)

TL/W/CS/33

SUMMARY OF RESULTS

GRAIN: TONNES/HECTARE

	O	M	D1	D2	D3	D4	T1	T2	T3	T4	Z1	Z2	Z3	Z4	Mean
							(1) and (2)								(± 0.069)
R		4.68	4.81	3.99	4.52	4.74	4.22	4.12	4.20	4.70	4.44	4.52	4.62	4.55	4.47
C		4.50	4.59	4.13	4.81	4.52	4.37	4.72	4.53	4.66	4.47	4.86	4.76	4.91	4.60
Mean (± 0.209)	4.51	4.59	4.70	4.06	4.67	4.63	4.29	4.42	4.36	4.68	4.46	4.69	4.69	4.73	4.53*

* General mean

Mean D.M. %: 86.3

(1) (± 0.273) For use in horizontal and diagonal comparisons only(2) (± 0.248) For use in vertical and interaction comparisons only