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Yields of the Field Experiments 1967



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Rothamsted Research

Rothamsted Research (1968) 67/W/WEC/C/42 Nematode Resistant Barley - Barley - Pathogen Infested Site; Yields Of The Field Experiments 1967, pp 261 - 262 - DOI: https://doi.org/10.23637/ERADOC-1-157

67/c/42.1

NEMATODE - RESISTANT BARLEY

(on site of 'Scorch' study)

(WEC)

Effect of using resistant and susceptible segregates of barley on land heavily infested with Heterodera avenae and the effect on yields -Woburn Butt Close 1967.

Design: Single replicate of 3 x 2 x 2 x 2 x 2 in blocks of 12 plots, with certain high order interactions confounded with block differences.

Area of each plot: 0.0032. Area harvested: 0.0021.

Treatments: All combinations of:-

- 1. Nitrogen: 0.4 (N1), 0.8 (N2), 1.2 cwt N (N3) as 'Nitro-Chalk' in the seedbed (N1, N2 and N3 being cumulative with N rates 1964 - 66)
- 2. Formalin 1964: None (0) Formalin (F64) 3. Formalin 1965: None (0) Formalin (F65) 4. Formalin 1966: None (0) Formalin (F66)
- 5. Varieties: Resistant segregate (R), susceptible segregate (S).
- Basal applications: 20 cwt ground chalk 250 lb (0:20:20). Weedkillers: 4 lb amino-triazole plus 3.7 lb ammonium thiocyanate in 33 gals and ioxynil/mecoprop (Actril C at 5 pints in 50 gals).
- Cultivations, etc.: Weedkiller applied: Sept 27, 1966. Ground chalk applied: Oct 31. Ploughed: Nov 2. PK compound applied by machine, 'Nitro-Chalk' applied by hand, seed drilled at 140 lb: Mar 15, 1967. Weedkiller (Actril C) applied: May 25. Combine harvested: Aug 23.
- NOTES (1) Crop samples for nematode counts and plant weights were taken in late May and early July.
 - (2) Soil samples taken after harvest for nematode population counts.
 - (3) For previous years' results see 'Results' 64/Da/3, 65/C/30 and 66/C/23.

Standard error per plot.
Grain: 5.19 or 24.5% (11 d.f.)

67/c/42.2

SUMMARY OF RESULTS

GRAIN

	R	1000	S	Mean
Mean (±1.06)	20.7	TENERS OF THE PERSON	21.8	21.2
		(±1.84)		(±1.30)
N1 N2 N3	14.7 21.1 26.2		14.6 22.1 28.6	14.7 21.6 27.4
		(±1.50)		(±1.06)
0 F64	20.2		21.7	21.0 21.5
		(±1.50)	The same	(±1.06)
C F65	19.6 21.7		22.3	20.9 21.5
	francisco de	(±1.50)	of the State	(±1.06)
0 F66	21.5 19.8		22.6 20.9	22.0 20.4

Mean D.M. %: 80.0