ROTHAMSTED RESEARCH

Yields of the Field Experiments 1967

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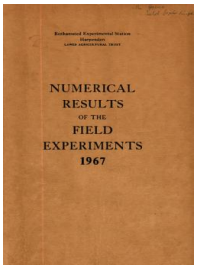

67/W/WEAU/C/43 Nematode Resistant Barley - Barley - Pathogen Free Site

Rothamsted Research

Rothamsted Research (1968) *67/W/WEAU/C/43 Nematode Resistant Barley - Barley - Pathogen Free Site ;* Yields Of The Field Experiments 1967, pp 263 - 264 **- DOI: https://doi.org/10.23637/ERADOC-1-157**

67/C/43.1

NEMATODE - RESISTANT BARLEY

(WEAU)

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

Design: 3 randomised blocks of 9 plots.

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

Treatments: 1. Varieties: Resistant segregate (R), susceptible segregate (S), Proctor (P).
2. Nitrogen: 0.4 (N1), 0.8 (N2), 1.2 cwt N (N3) as 'Nitro-Chalk'.

Basal application: 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. Previous crops: Spring wheat 1965, potatoes 1966.

NOTE: Root samples for nematode counts were taken in late May and early June, and soil samples were taken before drilling.

Standard error per plot.
Grain: 8.21 or 30.9% (16 d.f.)

https://doi.org/10.23637/ERADOC-1-157

SUMMARY OF RESULTS

GRAIN

	N1	N2	N3	Mean
		(±4.74)		(±2.74)
R	16.8	27.7	27.3	23.9
S	23.6	27.4	38.3	29.8
P	20.2	24.9	32.9	26.0
Mean (±2.74)	20.2	26.7	32.8	26.6

Mean D.M. %: 79.4

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