

Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1967

[Full Table of Content](#)



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.)

67/C/43.2

SUMMARY OF RESULTS

	GRAIN			Mean
	N1	N2	N3	
		(±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