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Numerical Results of the Field Experiments 1968

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68/C/37 Nematode-resistant Barley

Rothamsted Research

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68/C/37.1

NEMATODE-RESISTANT BARLEY

(WCX)

Effect of resistant and susceptible segregates of barley grown in 1967 on land heavily infested with *Heterodera avenae* on the yields of the succeeding susceptible barley - Woburn Butt Close 1968 the 5th year.

For design and previous years' results see 'Results' 64/Da/3, 65/C/30, 66/C/23 and 67/C/42.

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 - 67.
2. Formalin 1964: None (64O), Formalin (64F).
3. Formalin 1965: None (65O), Formalin (65F).
4. Formalin 1966: None (66O), Formalin (66F).
5. Varieties 1967: Resistant segregate (R), susceptible segregate (S).

Basal applications: 280 lb (0:20:20) combine drilled. Weedkiller: Ioxynil/mecoprop (Actril C at 5 pts in 25 gals). Magnesian limestone at 22.5 cwt.

Cultivations, etc.:-

Subsoiled: 21 Sept, 1967. Magnesian limestone applied:
18 Oct. Ploughed: 11 Nov. Seed combine drilled at 140 lb:
5 Mar, 1968. 'Nitro-Chalk' applied: 12 Mar. Weedkiller applied:
26 Apr. Combine harvested: 21 Aug. Variety: Maris Badger.

NOTE: Soil samples were taken for nematode counts in June.

Standard error per plot.

Grain: 3.03 or 11.1% (21 d.f.)

68/c/37.2

SUMMARY OF RESULTS

GRAIN

	650	65F	660	66F	R	S	N1	N2	N3	Mean
	(±0.87)		(±0.87)		(±0.87)		(±1.07)			(±0.62)
640	25.9	27.7	27.5	26.1	27.6	26.1	19.4	27.2	34.0	26.8
64F	26.9	29.0	28.2	27.6	29.1	26.8	20.4	28.5	35.0	27.9
			(±0.87)		(±0.87)		(±1.07)			(±0.62)
		650	26.9	25.9	28.4	24.4	18.9	26.9	33.4	26.4
		65F	28.9	27.8	28.3	28.4	20.8	28.7	35.5	28.4
					(±0.87)		(±1.07)			(±0.62)
			660		28.8	26.9	20.0	29.0	34.6	27.9
			66F		27.9	25.9	19.8	26.6	34.3	26.9
							(±1.07)			(±0.62)
					R		21.1	28.9	35.1	28.4
					S		18.7	26.7	33.9	26.4
					Mean		19.9	27.8	34.5	27.4
							(±0.76)			

Mean D.M. %: 83.5