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Yields of the Field Experiments 1966

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66/W/WBL/C/23 Scorch Study - Spring Wheat 3rd Year

Rothamsted Research

Rothamsted Research (1967) *66/W/WBL/C/23 Scorch Study - Spring Wheat 3rd Year* ; Yields Of The Field Experiments 1966, pp 207 - 208 - DOI: <https://doi.org/10.23637/ERADOC-1-158>

66/C/23.1

SPRING WHEAT

(WBL)

'Scorch' Study - Woburn Butt Close 1966, the third year.

Design: 3 x 2 x 2 x 2 in 4 blocks of 12 plots.

Area of each plot: 0.0032. Area harvested: 0.0023.

Treatments: All combinations of:-

1. Nitrogen applied 1966: 0.6 (N1), 1.2 (N2), 1.8 (N3) cwt N as 'Nitro-Chalk' applied half in seedbed, half on May 27.
2. Fumigant 1966: None (66 O). Sprayed with formalin* on Feb 17, 1966 (66 F).
3. Fumigant 1965: None (65 O). Sprayed with formalin* on Dec 7, 1964 (65 F).
4. Fumigant 1964: None (64 O). Sprayed twice with formalin* (64 F).

Other factors included in 1964 and 1965 have been omitted from the analysis.

* A 38% solution of formaldehyde at 266 gals in 3700 gals.

Basal applications, etc.: 2.5 cwt (0:20:20) combine drilled.

Weedkiller: Sprayed with Ioxynil/mecoprop (Actril C at 5 pints in 35 gals): May 13, 1966.

Cultivations, etc.: Ploughed: Nov 15 - 23, 1965. Seed drilled at 160 lb: Apr 13, 1966. Seedbed 'Nitro-Chalk' applied: Apr 25. Combine harvested: Sept 7. Variety: Kloka.

- NOTES: (1) Soil samples were taken for *Heterodera avenae* populations in Oct 1965, and for nematode counts in mid Sept 1966.
- (2) 20 plants per plot were taken for estimation of *Heterodera avenae* per gram of root and top weights in May 1966.
- (3) For previous years' results see 'Results' 64/Da/3 and 65/C/30.

Standard error per plot.

Grain: 4.03 or 17.4% (22 d.f.)

66/C/23.2

SUMMARY OF RESULTS

GRAIN

	N1	N2	N3	Mean
		(±1.43)		(±0.82)
66 O	16.3	23.0	25.5	21.6
66 F	18.9	24.5	30.5	24.6
65 O	18.2	22.4	26.0	22.2
65 F	17.1	25.1	30.1	24.1
64 O	18.3	22.7	28.3	23.1
64 F	16.9	24.8	27.8	23.2
Mean (±1.01)	17.6	23.8	28.0	23.1

Mean D.M. %: 81.9