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Yields of the Field Experiments 1971



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71/W/CS/52

FUMIGANTS, TEMIK AND N

Object: To study the effects of dazomet, formalin and aldicarb, at a range of nitrogen levels, on nematodes and yield of spring wheat - Woburn Butt Close.

The first year, spring wheat.

Design: 4 blocks of 12 plots.

Whole plot dimensions: 2.13 x 9.14. Area harvested: 0.00130.

Treatments: All combinations of:-

- Fumigants: None (0) 381 kg (D) dazomet 2987 l(F) formalin (38% formaldehyde) 9 kg (T) aldicarb.
- 2. Nitrogen: 63, 126, 189 kg N as 'Nitro-Chalk'.
- Dazomet was applied as a prill rotary cultivated in, formalin as a drench with water 54,400 l both applied in the autumn. Aldicarb was applied in the spring.
- Basal applications: 381 kg (0:20:20). Weedkiller: Ioxynil at 0.525 kg and mecoprop at 1.58 kg in 281 l.
- Cultivations, etc.: Ploughed: 3 Sept, 1970. Dazomet applied, rotary cultivated: 28 Sept. Formalin applied: 12 13 Oct. Ploughed: 9 Feb, 1971. Aldicarb applied: 8 Mar. Seed combine drilled at 191 kg: 17 Mar. N applied: 25 Mar. Weedkiller applied: 30 Apr. Combine harvested: 17 Aug. Variety: Kolibri. Previous crops: Barley 1969 and 1970.
- NOTE: Soil samples were taken before fumigating and after harvest, and crop samples were taken in June, for counts of Heterodera avenae.
- Standard error per plot.

 Grain, tonnes/hectare: 0.375 or 14.% (33 d.f.)

71/W/CS/52 SUMMARY OF RESULTS

N: KG/HA

	63	126	189	Mean
	G	RAIN: TONNES/HEC	TARE	
		(±0.188)		(±0.108)
O D F T	2.33 2.78 2.32 3.21	2.24 2.38 2.08 3.51	2.04 2.22 2.13 2.91	2.20 2.46 2.18 3.21
Mean (±0.094)	2.66	2,55	2.33	2.51
	S	TRAW: TONNES/HEC	TARE	
O D F	2.55 2.70 2.53 2.92	2.31 2.61 2.24 3.01	2.37 2.64 2.12 2.87	2.41 2.65 2.30 2.94
Mean	2,68	2.54	2.50	2.57

Mean D.M. %: Grain: 80.8 Straw: 79.7