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66/R/CC/C/29 and 66/W/WCD/C/29 Dd and Dazomet - Spring Wheat

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66/C/29.1

DD AND DAZOMET - SPRING WHEAT

(CC and WCD)

Effects of soil fumigants on yield and soil-borne pathogens, Rothamsted (R) Hoosfield and Woburn (W) Lansome, the first year.

Design: 3 randomised blocks of 3 plots, split into 8.

Area of each sub plot: 0.0048. Area harvested:
Hoosfield (R) - 0.0048, Lansome (W) - 0.0036.

Treatments: All combinations of:-

Whole plots: 1. Nitrogen: 0.5 (N1), 1.0 (N2), 1.5 cwt N (N3) applied as 'Nitro-Chalk'.

Sub plots: 2. Fumigants: None (0), none, rotary cultivated (R).
DD: 200 (D2), 400 (D4), 800 lb (D8) injected to 6 inch depth.
Dazomet: 100 (Z1), 200 (Z2), 400 lb (Z4) rotary cultivated in.

Basal applications: 280 lb (0:20:20) combine drilled. Weedkiller (Lansome (W) only): Ioxynil/mecoprop (Actril C at 5 pints in 35 gals).

Cultivations, etc.:

Hoosfield (R): Ploughed: Oct 28, 1965. DD applied: Nov 8.
Dazomet applied, Z and R plots rotary cultivated: Mar 7, 1966.
Seed drilled at 180 lb: Apr 26. 'Nitro-Chalk' applied: Apr 27. Combine harvested: Sept 9. Variety: Kloka.
Previous crops: Barley 1964, winter barley 1965.

Lansome (W): Ploughed: Sept 30, 1965. DD applied: Nov 22.
Dazomet applied, Z and R plots rotary cultivated: Feb 14, 1966. Seed drilled at 170 lb: Apr 13.
'Nitro-Chalk' applied: Apr 25. Weedkiller applied: May 13.
Combine harvested: Sept 7. Variety: Kloka. Previous crops: Winter wheat 1964, barley 1965.

NOTE: Soil samples were taken for microflora investigations and plant samples for root-rotting diseases. Samples were also taken for nematode counts and plant weights, also soil samples for final nematode population.

Standard errors per plot. Grain.

Hoosfield (R).	Whole plot: 1.19 or 3.9% (4 d.f.)
	Sub plot: 1.73 or 5.6% (42 d.f.)
Lansome (W).	Whole plot: 2.99 or 7.4% (4 d.f.)
	Sub plot: 2.92 or 7.2% (38 d.f.)

66/c/29.2

SUMMARY OF RESULTS

GRAIN

	0	R	D2	D4	D8	Z1	Z2	Z4	Mean
Hoosfield (R)									
	(1) and (2)								(±0.69)
N1	25.8	26.3	27.1	24.6	25.3	29.0	30.4	32.6	27.6
N2	28.6	33.7	31.0	30.4	27.1	31.2	34.6	32.3	31.1
N3	32.7	35.1	34.4	32.5	33.7	33.2	33.2	35.9	33.9
Mean (±0.58)	29.0	31.7	30.8	29.1	28.7	31.1	32.7	33.6	30.9

Mean D.M. %: 83.1

Lansome (W)									
	(1) and (2)								(±1.73)
N1	30.5	31.5	35.1	34.2	40.1	32.0	39.7	41.9	35.6
N2	39.2	40.8	41.3	41.6	43.4	43.4	46.2	45.3	42.7
N3	40.1	38.5	43.7	42.4	41.3	43.7	46.4	45.8	42.8
Mean (±0.97)	36.6	36.9	40.1	39.4	41.6	39.7	44.1	44.3	40.3

Mean D.M. %: 82.8

	Hoosfield (R)	Lansome (W)	
(1)	(±1.16)	(±2.34)	For use in vertical and diagonal comparisons
(2)	(±1.00)	(±1.69)	For use in horizontal and interaction comparisons