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73/W/CS/66 - Dazomet & Nitrogen - Maize

Rothamsted Research

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73/W/CS/66

DAZOMET AND NITROGEN

Object: To study the cumulative effects of dazomet and nitrogen on pathogens and yield of maize grown continuously - Woburn Butt Furlong.

Sponsors: A.J. Barnard, D. Hornby.

The third year, maize.

For previous years see 71/W/CS/66(t) and 72/W/CS/66(t).

Design: 4 blocks of 2 plots split into 4.

Whole plot dimensions: 2.13 x 16.5. Area harvested: 0.00053.

Treatments: All combinations of:-

Whole plots: 1. Dazomet (kg per annum) cumulative 1971-73:	DAZOMET
0	0
450	450

Sub plots: 2. Nitrogen fertiliser (kg N per annum) cumulative 1971-73:	N
50 to seedbed	50
100 to seedbed	100
150 to seedbed	150
100 to seedbed, 50, five weeks after germination	100+50

Basal applications: Manures: (0:14:28) at 870 kg. Weedkiller: Atrazine at 1.1 kg in 280 l.

Seed: Pioneer 131, sown at 30 kg.

Cultivations, etc.:- Deep-tine cultivated: 11 Aug, 1972. Dazomet applied, all plots rotary cultivated twice: 12 Oct. Rolled: 13 Oct. Ploughed: 3 Jan, 1973. PK applied, weedkiller applied and harrowed in: 27 Apr. N applied, seed sown: 2 May. Late N applied: 2 July. Harvested by hand: 1 Nov.

73/W/CS/66

- NOTES: (1) Soil samples were taken in spring before sowing and again after harvest for counts of ectoparasitic nematodes.
 (2) Leaf samples were taken in September for analysis of % P and K.
 (3) Plant samples were taken in September for incidence of stem and leaf pathogens.
 (4) % N in grain was determined.
 (5) Two plots, DAZOMET 450, N 150 and N 50, were waterlogged and one DAZOMET 0, N 100+50 was damaged by birds. Estimated values were used in the analysis.

Standard error per sub plot.

Grain, tonnes/hectare: 0.835 or 14.5% (15 d.f.)

TABLES OF MEANS

GRAIN: TONNES/HECTARE

	N				Mean
	50	100	150	100+50	
DAZOMET					
0	5.33	4.55	5.66	6.08	5.41
450	5.88	6.46	6.05	5.92	6.08
Mean	5.60	5.51	5.85	6.00	5.74

STANDARD ERRORS OF DIFFERENCES

N	DAZOMET*
N	N
0.417	0.590

* Within the same level of DAZOMET only

Mean D.M. % 64.7