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Yields of the Field Experiments 1977

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77/W/CS/66 Dazomet and Nitrogen - Maize

Rothamsted Research

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77/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 seventh year, maize.

For previous years see 71/W/CS/66(t), 72/W/CS/66(t) and 73-76/W/CS/66.

Design: 4 blocks of 2 plots split into 4.

Whole plot dimensions: 2.13 x 16.5.

Treatments: All combinations of:-

Whole plots

1. DAZOMET Dazomet (kg per annum) cumulative 1971-77:

0
450

Sub plots

2. N Nitrogen fertiliser (kg N per annum) cumulative 1971-77:

50 50 to seedbed
100 100 to seedbed
150 150 to seedbed
100+50 100 to seedbed, 50 five weeks after emergence

Basal applications: Manures: (0:14:28) at 1000 kg. Weedkiller: Atrazine at 1.1 kg in 340 l.

Seed: Anjou 210, sown at 103,300 seeds per ha.

Cultivations, etc.:- Ploughed: 23 Nov, 1976. Dazomet applied, rotary cultivated: 4 Apr, 1977. PK applied: 7 Apr. Weedkiller applied: 11 May. Spring-tine cultivated with crumbler attached twice, seed sown, fine tooth harrowed: 19 May. Seedbed N applied: 24 May. Late N applied: 27 July. Hand harvested: 26 Oct.

NOTES: (1) Soil samples were taken in spring before sowing and after harvest for counts of ectoparasitic nematodes.

(2) Counts were made of common smut (*Ustilago maydis*) and stalk rots (*Fusarium* spp.).

77/W/CS/66

FORAGE DRY MATTER TONNES/HECTARE

***** TABLES OF MEANS *****

	N	50	100	150	100+50	MEAN
DAZOMET						
0		7.85	7.63	8.60	7.85	7.98
450		9.87	10.58	9.72	9.48	9.91
MEAN		8.86	9.10	9.16	8.67	8.95

***** STANDARD ERRORS OF DIFFERENCES OF MEANS *****

TABLE	N	DAZOMET*
		N
SED	0.652	0.922

* WITHIN THE SAME LEVEL OF DAZOMET ONLY

***** STRATUM STANDARD ERRORS AND COEFFICIENTS OF VARIATION *****

STRATUM	DF	SE	CV%
BLOCK.WP.SP	18	1.304	14.6

MEAN DM% 19.2

SUB PLOT AREA HARVESTED 0.00039