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Yields of the Field Experiments 1981

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81/W/CS/66 Dazomet and Nitrogen - Forage Maize

Rothamsted Research

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81/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 11th year, forage maize.

For previous years see 71/W/CS/66(t), 72/W/CS/66(t) and 73-80/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(79) Dazomet (kg per annum) cumulative 1971-79, residual 1980-81:

0
450

Sub plots

2. N Nitrogen fertiliser (kg N as 'Nitro-Chalk') cumulative 1971-81:

50 50 to seedbed
100 100 to seedbed
150 150 to seedbed
50+100 100 to seedbed, 50 four weeks before sowing (before 1978 this treatment received 100 to seedbed, 50 five weeks after emergence)

Basal applications: Manures: (0:14:28) at 630 kg. Weedkiller: Atrazine at 1.1 l in 280 l.

Seed: Fronica, sown at 103,000 seeds per hectare.

Cultivations, etc.: - Ploughed: 21 Nov, 1980. Early N applied: 15 Apr, 1981. Spring-tine cultivated: 22 Apr. PK applied: 23 Apr. Spring-tine cultivated with crumbler attached, weedkiller applied and harrowed in: 11 May. Seed sown: 12 May. Seedbed N applied: 14 May. Hand harvested: 13 Oct.

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

81/W/CS/66

FORAGE DRY MATTER TONNES/HECTARE

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

	N	50	100	150	50+100	MEAN
DAZOMET(79)						
0		13.09	15.38	15.86	16.27	15.15
450		11.74	16.23	17.51	15.72	15.30
MEAN		12.42	15.80	16.69	15.99	15.23

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

TABLE	DAZOMET(79)	N	DAZOMET(79)	N
SED	0.318	0.881	1.125	
EXCEPT WHEN COMPARING MEANS WITH SAME LEVEL(S) OF: DAZOMET(79)			1.246	

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

STRATUM	DF	SE	CV%
BLOCK.WP.SP	18	1.762	11.6

GRAIN MEAN DM% 29.3

SUB PLOT AREA HARVESTED 0.00039