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

Rothamsted Research

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78/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 eighth year, maize.

For previous years see 71/W/CS/66(t), 72/W/CS/66(t) and 73-77/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 1971-78:

0
450

Sub plots

2. N Nitrogen fertiliser (kg N as 'Nitro-Chalk 34') cumulative 1971-78:

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

Basal applications: Manures: Magnesian limestone at 7.5 tonnes, (0:14:28) at 860 kg. Weedkiller: Atrazine at 1.1 kg in 340 l.

Seed: Fronica, sown at 103,300 seeds per ha.

Cultivations, etc.: - Magnesian limestone applied: 18 Nov, 1977. Ploughed: 21 Nov. Spring-tine cultivated with crumbler attached, early N applied, dazomet applied, rotary cultivated twice: 3 Apr, 1978. PK applied, spring-tine cultivated with crumbler attached, seed sown: 12 May. Seedbed N applied: 19 May. Weedkiller applied: 23 May. Hand harvested: 11 Oct.

NOTES: (1) Soil samples were taken before sowing and after harvest for counts of ectoparasitic nematodes.
(2) Counts were made of common smut (*Ustilago maydis*) and stalk rots (*Fusarium* spp.).

78/W/CS/66

FORAGE DRY MATTER TONNES/HECTARE

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

	N	50	100	150	100+50	MEAN
DAZOMET						
0		8.56	9.89	11.26	11.49	10.30
450		10.61	11.99	13.51	13.70	12.45
MEAN		9.59	10.94	12.38	12.60	11.38

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

TABLE	N	DAZOMET*
		N
SED	0.683	0.966

* WITHIN THE SAME LEVEL OF DAZOMET ONLY

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

STRATUM	DF	SE	CV%
BLOCK.WP.SP	18	1.366	12.0

FORAGE MEAN DM% 25.0

SUB PLOT AREA HARVESTED 0.00039