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Yields of the Field Experiments 1975

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

Rothamsted Research

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75/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 fifth year, maize.

For previous years see 71/W/CS/66(t), 72/W/CS/66(t) and 73-74/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 (kg per annum) cumulative 1971-75:	DAZOMET
0	0
450	450
Sub plots: 2. Nitrogen fertiliser (kg N per annum) cumulative 1971-75:	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 860 kg. Weedkiller: Atrazine at 1.1 kg in 280 l.

Seed: Cargill Primeur 170 sown at 124,000 seeds per ha.

Cultivations, etc.:- Ploughed: 31 Dec, 1974. Spring-tine cultivated: 10 Jan, 1975. Dazomet applied, all plots rotary harrowed: 14 Jan. Deep-tine cultivated: 28 Apr. Spring-tine cultivated with crumbler, PK applied: 29 Apr. Weedkiller applied: 8 May. Rotary cultivated: 9 May. Seed sown by hand: 13 May. N applied: 29 May. Late N applied: 15 July. Harvested by hand: 27 Oct.

- NOTES: (1) Because of damage to developing cobs by birds, forage yields only were taken.
 (2) Soil samples were taken in spring before sowing and again after harvest for counts of ectoparasitic nematodes.
 (3) Plants with soil were sampled on three occasions for nematode counts and incidence of stem and leaf pathogens.
 (4) Visual scores were made of common smut (*Ustilago maydis*) and *Fusarium* spp.

75/W/CS/66

*** TABLES OF MEANS ***

FORAGE DRY MATTER TONNES/HECTARE

	N	50	100	150	100+50	MEAN
DAZOMET						
0		7.98	9.13	10.32	11.23	9.67
450		9.71	12.05	12.16	11.85	11.44
MEAN		8.84	10.59	11.24	11.54	10.55

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

TABLE	N	DAZOMET N
SED	0.848	1.369
ONLY WHEN COMPARING MEANS WITH SAME LEVEL(S) OF: DAZOMET		1.199

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

STRATUM	DF	SE	CV%
BLOCK.WP.SP	18	1.696	16.1

MEAN DM% 36.3

SUB PLOT AREA HARVESTED 0.00039