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

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84/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 14th year, forage maize.

For previous years see 71/W/CS/66(t), 72/W/CS/66(t) and 73-83/W/CS/66.

Design: 2 blocks of 4 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, none since:

0
450

2. DAZOMET(84) Dazomet (kg) in 1982, 1983 and 1984:

0
450

Sub plots

3. N+FNGRES Nitrogen fertilizer as 'Nitro-Chalk' cumulative to 1982 and 1983 and fungicide residues from 1983:

NONE	None
N78+N120	78 kg N on 5 Apr, 1984, 120 kg N to seedbed on 21 May
N120	120 kg N to seedbed on 21 May
N120(CY)	120 kg N to seedbed + residues of 50 kg cyproflumazone to seedbed in 1983

NOTE: Sub plot treatments were superimposed on previous cumulative N treatments 1971-81.

Basal applications: Manures: (0:18:36) at 490 kg. Weedkiller: Atrazine at 1.1 kg in 280 l.

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

Cultivations, etc.: Ploughed: 15 Nov, 1983. PK applied: 28 Mar, 1984. Spring-tine cultivated with crumbler attached: 4 Apr. Dazomet and early N treatments applied, rotary cultivated: 5 Apr. Weedkiller applied, spring-tine cultivated, with crumbler attached, twice. Seed sown: 16 May. Seedbed N applied: 21 May. Hand harvested: 17 Oct.

84/W/CS/66

NOTE: Soil samples were taken after harvest for counts of ectoparasitic nematodes.

FORAGE DRY MATTER TONNES/HECTARE

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

DAZOMET(84)	0	450	MEAN
DAZOMET(79)			
0	13.61	14.19	13.90
450	12.74	15.40	14.07
MEAN	13.18	14.80	13.99

N+FNGRES	NONE	N78+N120	N120	N120(CY)	MEAN
DAZOMET(79)					
0	7.94	16.94	15.09	15.63	13.90
450	8.71	16.41	14.81	16.35	14.07
MEAN	8.33	16.68	14.95	15.99	13.99

N+FNGRES	NONE	N78+N120	N120	N120(CY)	MEAN
DAZOMET(84)					
0	7.09	16.13	14.74	14.75	13.18
450	9.56	17.23	15.17	17.23	14.80
MEAN	8.33	16.68	14.95	15.99	13.99

	N+FNGRES	NONE	N78+N120	N120	N120(CY)
DAZOMET(79)	DAZOMET(84)				
0	0	7.60	16.92	14.48	15.45
	450	8.29	16.97	15.70	15.80
450	0	6.59	15.34	14.99	14.04
	450	10.83	17.49	14.63	18.66

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

TABLE	N+FNGRES	DAZOMET(79)* N+FNGRES	DAZOMET(84)* N+FNGRES	DAZOMET(79)* DAZOMET(84) N+FNGRES
SED	0.724	1.023	1.023	1.447

* WITHIN SAME LEVEL OF DAZOMET(79) OR DAZOMET(84) OR BOTH

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

STRATUM	DF	SE	CV%
BLOCK.WP.SP	12	1.447	10.3

FORAGE MEAN DM% 33.7

SUB PLOT AREA HARVESTED 0.00039