

Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1981

[Full Table of Content](#)



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

Rothamsted Research

Rothamsted Research (1982) *81/W/CS/66 Dazomet and Nitrogen - Forage Maize ; Yields Of The Field Experiments 1981*, pp 122 - 123 - DOI: <https://doi.org/10.23637/ERADOC-1-35>

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