

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 1984

[Full Table of Content](#)



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

### Rothamsted Research

Rothamsted Research (1985) *84/W/CS/66 Dazomet and Nitrogen - Maize* ; Yields Of The Field Experiments 1984, pp 122 - 123 - DOI: <https://doi.org/10.23637/ERADOC-1-32>

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 cyprofuram 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	
DAZOMET(79)	N+FNGRES	NONE	N78+N120	N120	N120(CY)	
0	DAZOMET(84)	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