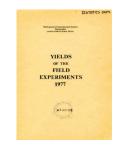
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Yields of the Field Experiments 1977



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

Rothamsted Research

Rothamsted Research (1978) 77/W/CS/66 Dazomet and Nitrogen - Maize; Yields Of The Field Experiments 1977, pp 157 - 158 - DOI: https://doi.org/10.23637/ERADOC-1-29

77/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 seventh year, maize.

For previous years see 71/W/CS/66(t), 72/W/CS/66(t) and 73-76/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 1971-77:

0 450

Sub plots

2. N Nitrogen fertiliser (kg N per annum) cumulative 1971-77:

50 50 to seedbed 100 100 to seedbed 150 150 to seedbed 100+50 100 to seedbed, 50 five weeks after emergence

Basal applications: Manures: (0:14:28) at 1000 kg. Weedkiller: Atrazine at 1.1 kg in 340 l.

Seed: Anjou 210, sown at 103,300 seeds per ha.

Cultivations, etc.:- Ploughed: 23 Nov, 1976. Dazomet applied, rotary cultivated: 4 Apr, 1977. PK applied: 7 Apr. Weedkiller applied: 11 May. Spring-tine cultivated with crumbler attached twice, seed sown, fine tooth harrowed: 19 May. Seedbed N applied: 24 May. Late N applied: 27 July. Hand harvested: 26 Oct.

NOTES: (1) Soil samples were taken in spring before sowing and after harvest for counts of ectoparasitic nematodes.

(2) Counts were made of common smut (Ustilago maydis) and stalk rots (Fusarium spp.).

77/W/CS/66

FORAGE DRY MATTER TONNES/HECTARE

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

N DAZOMET	50	100	150	100+50	MEAN
0 450	7.85 9.87	7.63 10.58	8.60 9.72	7.85 9.48	7.98 9.91
MEAN	8.86	9.10	9.16	8.67	8.95

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

TABLE	N	DAZOMET*
		N
SED	0.652	0.922

^{*} WITHIN THE SAME LEVEL OF DAZOMET ONLY

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

 STRATUM
 DF
 SE
 CV%

 BLOCK.WP.SP
 18
 1.304
 14.6

MEAN DM% 19.2

SUB PLOT AREA HARVESTED 0.00039