

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 1980

[Full Table of Content](#)



80/R/MA/1 Forage Maize Rates & Times of N

Rothamsted Research

Rothamsted Research (1981) *80/R/MA/1 Forage Maize Rates & Times of N ; Yields Of The Field Experiments 1980*, pp 322 - 323 - DOI: <https://doi.org/10.23637/ERADOC-1-31>

80/R/MA/1

FORAGE MAIZE

RATES & TIMES OF N

Object: To study the effects of a range of nitrogen fertiliser rates, applied before sowing or to the seedbed, on the yields and nitrogen uptakes of forage maize - Long Hoos V 6.

Sponsor: A.J. Barnard.

Design: 2 randomised blocks of 32 plots.

Whole plot dimensions: 2.13 x 3.66.

Treatments: All combinations of:-

1. EARLY N Rates of nitrogen fertiliser (kg N) applied on 14 Apr, 1980:

0
60
120
180

2. SDBED N Rates of nitrogen fertiliser (kg N) applied on 13 May:

0
30
60
90
120
150
180
210

Basal applications: Manures: Chalk at 2.9 t. (0:14:28) at 870 kg.

Weedkillers: Atrazine at 1.7 kg in 340 l. Insecticide: Dimethoate at 0.67 kg in 340 l.

Seed: Fronica, sown at 100,000 seeds per hectare.

Cultivations, etc.: - Chalk applied: 18 Oct, 1979. Ploughed: 1 Nov. PK applied: 21 Mar, 1980. Spring-tine cultivated: 9 May. Power harrowed, seed sown: 12 May. Weedkiller applied: 19 May. Insecticide applied: 5 June. Hand harvested: 8 Oct. Previous crops: Potatoes 1978, s. wheat 1979.

NOTE: Plant population counts were made in July and the N content of the harvest produce was measured.

80/R/MA/1

FORAGE MAIZE DRY MATTER TONNES/HECTARE

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

	0	30	60	90	120	150	180	210	MEAN
SDBED N									
EARLY N									
0	6.00	8.91	10.07	11.95	11.80	13.10	13.10	15.12	11.26
60	11.07	11.93	12.95	11.76	12.96	12.87	12.95	12.49	12.37
120	12.79	12.66	12.52	12.57	11.30	12.55	12.50	13.43	12.54
180	12.45	11.39	13.70	13.05	11.99	12.27	11.86	12.54	12.41
MEAN	10.58	11.22	12.31	12.33	12.01	12.70	12.60	13.39	12.14

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

TABLE	EARLY N	SDBED N	EARLY N SDBED N
SED	0.427	0.604	1.208

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

STRATUM	DF	SE	CV%
BLOCK.WP	31	1.208	9.9
GRAIN MEAN DM%	21.3		
PLOT AREA HARVESTED	0.00039		