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# Yields of the Field Experiments 1979



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# 79/R/MA/1 Rates and Times of N - Maize

## **Rothamsted Research**

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#### 79/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 VI/VII 4.

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 6 April, 1979:

0
60
120
180

2. SDBED N Rates of nitrogen fertiliser (kg N) applied on 13 June 1979:

Basal applications: Weedkiller: Atrazine (as 'Vectal SC' at 3.4 kg) in 340 l. Insecticides: Dimethoate at 0.67 kg in 340 l. Pirimicarb at 0.14 kg in 340 l.

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

Cultivations, etc.:- Ploughed twice: 16 Nov, 1978 and 6 Mar, 1979. Spring-tine cultivated: 5 Apr. Power harrowed, seed sown: 7 June. Weedkiller applied: 11 June. Dimethoate applied: 29 June. Pirimicarb applied: 26 July. Harvested by hand: 30 Oct. Previous cropping: Wheat 1977 and 1978.

NOTES: (1) Plant population counts were made in July.

(2) Nitrogen percentages in harvested produce were determined.

(3) Because of an inadequate stand on 2 plots of treatment combination EARLY N 0 180 SDBED N 0 210 yields were not recorded. Estimated values were used in the analysis.

## 79/R/MA/1

FORAGE MAIZE TONNES/HECTARE

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

SDBED N EARLY N	0	30	60	90	120	150	180	210	MEAN
0	6.58	5.97	10.40	9.64	8.47	9.27	11.00	9.98	8.91
60			10.97						
120	11.46		7.56						
180	11.00	8.86	8.12	10.58	10.98	9.80	10.43	12.12	10.24
MEAN	8.95	8.35	9.26	9.90	10.03	9.97	9.98	10.45	9.61

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

TABLE	EARLY N	SDBED N	EARLY N SDBED N
SED	0.490	0.692	1.385

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

 STRATUM
 DF
 SE
 CV%

 BLOCK.WP
 29
 1.385
 14.4

GRAIN MEAN DM% 21.2

PLOT AREA HARVESTED 0.00039