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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