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96/R/MA/1 Maize and Nitrogen - Maize

Rothamsted Research

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96/R/MA/1

MAIZE

MAIZE AND NITROGEN

Object: To assess the yield response to nitrogen fertilizer and to assess harvest methods and removal of discards of a forage maize crop - Long Hoos III 4, 5 & 6.

Sponsors: G.N. Talbot, P.R. Poulton.

Design: 3 randomised blocks of 4 plots.

Whole plot dimensions: 6.0 x 25.0.

Treatments:

N	Nitrogen fertilizer (kg N):
N0	0
N1	70
N2	140
N3	210

Experimental diary:

08-Dec-95 : B : Ploughed.
01-May-96 : B : Heavy spring-tine cultivated.
02-May-96 : B : Spring-tine cultivated, rotary harrowed, Hudson, dressed thiram and methiocarb, drilled at 11 seeds per m², rolled.
26-May-96 : B : Gesaprim 500SC at 2.0 l with Stomp 400 SC at 3.7 l in 200 l.
11-Jun-96 : T : N N1, N2, N3: 34.5% N applied at 203, 406 and 609 kg respectively.
20-Sep-96 : B : Harvested by hand.

Previous crops: Set-aside 1994, s. wheat 1995

NOTE: Samples of whole crop maize were taken for chemical analysis.

96/R/MA/1

WHOLE CROP FORAGE (AT 100% DRY MATTER) TONNES/HECTARE

***** Tables of means *****

N	
N0	10.74
N1	11.66
N2	11.93
N3	12.74
Mean	11.77

*** Standard errors of differences of means ***

N
0.463

***** Stratum standard errors and coefficients of variation *****

Stratum	d.f.	s.e.	cv%
BLOCK.WP	6	0.567	4.8

GRAIN MEAN DM% 29.6

PLOT AREA HARVESTED 0.00036