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98/R/CS/408 *Miscanthus Sinensis Giganteus* Study - Grass

Rothamsted Research

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98/R/CS/408

MISCANTHUS SINENSIS GIGANTEUS STUDY

Object: To quantify the biomass yield potential of *Miscanthus sinensis* Giganteus
- Road Piece West.

Sponsor: D.G. Christian.

The sixth year, grass.

For previous years see 94-97/R/CS/408.

Design: 3 randomised blocks of 3 plots.

Whole plot dimensions: 10.0 x 10.0.

Treatments:

N	Nitrogen fertilizer cumulative to previous dressings, kg N:
-	None
N1	60
N2	120

Experimental diary:

08-May-98 : B : Dow Shield at 0.5 l in 220 l, spot treated thistles.
04-Jun-98 : T : N N1, N2: 34.5% N at 174 and 348 kg respectively.
16-Jun-98 : B : Muriate of potash at 286 kg.
01-Feb-99 : B : Hand harvested.

NOTE: Plants were measured regularly for stem height and density. Samples were taken regularly to measure dry matter and for chemical analysis.

DRY MATTER TONNES/HECTARE

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

N	-	N1	N2	Mean
	15.46	15.02	15.37	15.28

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

N
0.322

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	4	0.394	2.6
MEAN DM% 44.9		AVERAGE PLOT AREA HARVESTED	0.00444