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00/R/CS/480 Miscanthus Genotypes - Grasses

Rothamsted Research

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00/R/CS/480

MISCANTHUS GENOTYPES

Object: To compare growth, yield, winter survival and quality for combustion and fibre uses of a range of miscanthus genotypes - Long Hoos III 4.

Sponsors: D.G. Christian.

For previous year see 98-99/R/CS/480.

The fourth year, grasses.

Design: 3 randomised blocks of 15 plots.

Plot dimensions: 5.0 x 5.0.

Treatments:-

GENOTYPE

1	Giganteus/M1 Lasel 1
2	Giganteus/M53 ILP53
3	Giganteus/M56 Haga 56
4	Giganteus/M63 Greif 63
5	Sacchariflorus/M11 Materec 11
6	Sinensis H/M7 Gofal 7
7	Sinensis H/M42 Berbo 42
8	Sinensis H/M43 RH43
9	Sinensis H/M78 Jesel 78
10	Sinensis H/M81 RH81
11	Sinensis /88-110
12	Sinensis /88-111
13	Sinensis /90-5
14	Sinensis /90-6
15	Sinensis /SW 217

Experimental diary:

31-Mar-00 : B : : Alpha Glyphogan at 4.0 l in 200 l.
18-May-00 : B : : 34.5% N at 174 kg.
19-May-00 : B : : Muriate of potash at 262 kg.
23-Jun-00 : B : : Dow Shield at 1.0 l in 220 l, spot sprayed thistles.
29-Jan-01 : B : : Cut.

NOTE: Harvest samples were analysed for chemical content.

00/R/CS/480

DRY MATTER TONNES/HECTARE

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

GENOTYPE	
1	12.40
2	12.72
3	10.83
4	11.92
5	9.98
6	10.54
7	14.65
8	7.63
9	11.63
10	8.92
11	8.46
12	7.77
13	8.22
14	6.11
15	7.32
Mean	9.94

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

GENOTYPE
0.962

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	28	1.179	11.9
MEAN DM%	62.7		
AVERAGE PLOT AREA HARVESTED	0.00123		