

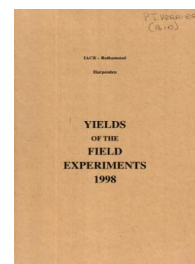
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98/W/CS/480 Miscanthus Genotypes - Grass

Rothamsted Research

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98/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.

The second year, grasses.

Design: 3 randomised blocks of 15 plots.

Plot dimensions: 5.0 x 5.0.

Treatments:-

GENOTYPE

1	Giganteus/M1 Lasei 1
2	Giganteus/M53 LLP53
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:

16-May-97 : B : 34.5% N at 174 kg. Triple superphosphate at 213 kg.
Muriate of potash at 292 kg. Heavy spring-tine
cultivated.

19-May-97 : B : Rotary cultivated. Transplanted genotypes.

20-May-97 : B : Irrigated 20 mm.

28-May-97 : B : Irrigated 20 mm.

03-Jun-97 : B : Irrigated 20 mm.

20-Aug-97 : B : Irrigated 12.5 mm.

17-Feb-98 : B : Hand harvested.

18-Feb-98 : T : Replanted missing plants by hand.

18-Mar-98 : B : Gramoxone 100 at 2.0 l with Luxon Non-ionic Wetter at
100 ml in 200 l.

08-May-98 : B : Dow Shield at 0.5 l in 220 l, spot treat thistles.

15-Jun-98 : B : Triple superphosphate at 213 kg. 34.5% N at 174 kg.

16-Jun-98 : B : Muriate of potash at 190 kg.

17-Jul-98 : B : Hand weeded.

16-Feb-99 : B : Hand harvested.

98/R/CS/480

NOTE: Winter survival was assessed. Regular measurements of plant height and shoot numbers were made. The onset of senescence was recorded. Plant samples were taken at harvest to assess above and below ground biomass and for chemical analysis.

DRY MATTER TONNES/HECTARE

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

GENOTYPE	
1	1.78
2	3.35
3	3.53
4	2.74
5	1.23
6	3.62
7	4.13
8	0.95
9	4.83
10	3.91
11	1.19
12	0.90
13	1.61
14	0.50
15	1.22
Mean	2.36

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

GENOTYPE
0.421

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	28	0.515	21.8

MEAN DM% 64.0

PLOT AREA HARVESTED 0.00105