

# MSG2

## MULBERRY FOR SOIL MOISTURE STRESS CONDITIONS

MSG2 is a mulberry variety specially evolved for cultivation in semi-arid regions where soil moisture stress is a limiting factor for sericulture. The variety developed during 2014 has a leaf yield potential of 22-23 mt/ha/yr under moisture stress conditions. The variety a hybrid of *BR-4* and *S13* is poised to replace *S13* in the semi-arid tracts. The foliage of MSG2 is of excellent quality and ideally suited for silkworms rearing. The variety is characterized by erect branches, thick dark-green leaves and short internodal distance. It has high rooting ability (>80%) and survival rate in the nursery.

### Agronomical descriptions

	S13	MSG2
Leaf yield [mt/ha/yr]	13-16	22-23
No. of shoots/plant	12-14	8-9
Total shoot length [cm]	840	1186
Leaf moisture [%]	75.88	77.23
Moisture retention after 6h [%]	73.00	74.70
Leaf	Small, entire, ovate, smooth and dark green	Large entire, cordate, smooth and dark green
Resistance to diseases	Moderately resistant to foliar diseases	Moderately resistant to foliar diseases
Regeneration	8-10 days after pruning	8-10 days after pruning
Sprouting (30 <sup>th</sup> day)	>95%	>95%
Rooting (at 90 days)	>80%	>80%

### Bioassay results

	S13	MSG2
Weight of 10 larvae [g]	48.02	46.05
Yield / 10000 larvae [No.]	8833	8190
Yield / 10000 larvae [kg]	18.24	16.64
Single cocoon weight [g]	1.739	1.522
Single shell weight [g]	0.284	0.245
Shell percentage	16.30	16.10



## Package of Practices

Spacing	90 x 90 cm
Manure (FYM)	10 mt/ha/year
Chemical fertilizer (N:P:K kg/ha/year)	100:50:50
Form of chemical fertilizer	Straight
No. of crops/year	Three

- Suitable for cultivation under semi-arid conditions
- Good rooting ability and propagation through cuttings
- Quick regeneration capacity
- Moderately tolerant to foliar diseases
- Suitable for growing as small trees under protective irrigation



Text

Rajashekar, K. and S. Gandhi Doss

***For further details Contact:***

DIRECTOR

Central Sericultural Research & Training Institute

(ISO 9001 : 2008 Certified)

Central Silk Board, Min. of Textiles

Govt. of India, Srirampura, Mysuru-570 008

Tel: 0821-2362757, 2362406

Fax: 0821-2362845

Web: [www.csrtimys.res.in](http://www.csrtimys.res.in)

Email: [csrtimys.csb@nic.in](mailto:csrtimys.csb@nic.in)

# MSG2

## MULBERRY FOR SOIL MOISTURE STRESS CONDITIONS



**Central Sericultural Research & Training Institute**

(ISO 9001 : 2008 Certified)

Central Silk Board, Min. of Textiles

Govt. of India, Srirampura

Mysuru-570 008