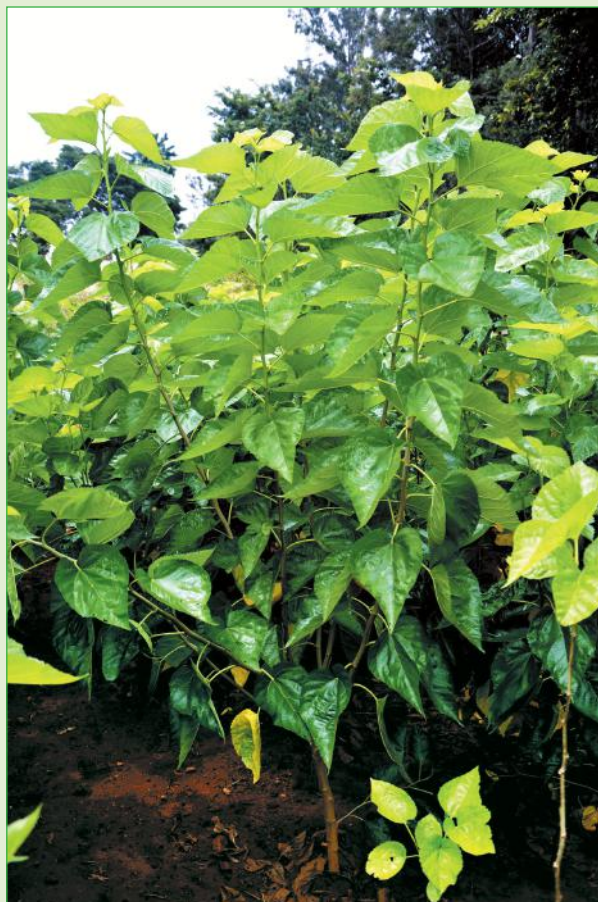


## Package of Practices

Spacing	(150 + 90) x 60 cm
Manure (FYM)	25 MT/ha/year
Chemical fertilizer (N:P:K kg/ha/year)	350:140:100
Form of chemical fertilizer	Straight
No. of crops/year	Five
Irrigation	60% (0.9 Acre inch/crop or 2.32 lakh Liters/ Acre/ crop)



- Suitable for cultivation under irrigated and sub-optimal irrigated conditions
- Can be considered for tree plantation under irrigated/protective irrigation conditions
- Good rooting ability and propagation through cuttings
- Quick regeneration capacity
- Moderately tolerant to foliar diseases



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## AGB8 Mulberry variety for sub-optimal Irrigated conditions



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## AGB8

### Mulberry for sub-optimal irrigated conditions

AGB8 is a mulberry variety specially evolved for cultivation under sub-optimal irrigated conditions in semi-arid regions where soil moisture stress is a limiting factor for sericulture. The variety developed during 2012 has a leaf yield potential of 47 MT/ha/yr under sub-optimal irrigated conditions. The variety AGB 8 is a hybrid of (Sujanpur-5 x Phillipines) and (K-2 x Black cherry) exhibited significantly higher leaf yield over RC1 in the sub-optimal irrigated conditions of south India. The foliage of AGB8 is of excellent quality and ideally suited for silkworm rearing. The variety is characterized by erect branches, thick dark-green leaves and medium inter-nodal distance. It is having high rooting ability.



### Agronomical Descriptions

Parameters	RC 1	AGB 8
Leaf yield [Mt/ha/yr]	37	47
No. of shoots/plant	9.4	9.6
Total shoot length [cm]	678	716
Leaf shape and surface	Large, entire, ovate, smooth and green	Large entire, cordate, smooth and 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%	>90%
Rooting (at 90 <sup>th</sup> day)	>85%	>91%



### Leaf Quality Parameters (Biochemical Components)

Parameters	RC1	AGB8
Crude protein (%)	24.5	22.60
Reducing sugar (%)	1.74	1.81
Non-reducing sugar (%)	7.90	9.29
Starch (%)	12.33	14.11
Carbohydrates (%)	22.0	25.21
Crude fibre (%)	11.58	12.14
Total free amino acids (mg/100 mg)	94.40	99.4
Chlorophyll a (mg/g)	2.17	2.28
Chlorophyll b (mg/g)	0.42	0.56
Moisture (%)	71.2	72.5
Moisture retention capacity (%)	73.2	74.4

### Bioassay Results

Parameters	RC1	AGB8
Yield / 10000 larvae [No.]	9182	9555
Yield / 10000 larvae [kg]	16.38	18.54
Single cocoon weight [g]	1.881	2.006
Single shell weight [g]	0.442	0.488
Shell percentage	23.54	24.32

