

AZOREAN CRYPTOMERIA

Cryptomeria japonica D. Don



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Governo dos Açores

		Dendrometric Variables Estimation on Azores							Pure Stands on Azores		
Cryptomeria 10 - 20 years	Average	Density (trees/ha)	Diameter at breast height (cm)	Height (m)	Individual volume (m ³)	Total volume (m ³ /ha)	Average annual increment (m ³ /ha/ year)	Basal area (m ² /ha)	Dominant height (m)	Area (ha)	Volume (m ³)
	Error (95% confidence Interval)	10 %	7 %	9 %	19 %	19 %	19 %	13 %	9 %		
Average	2.528	17,8	10,9	0,14	353,85	21,15	63,4	12,6	2.360,7	790.205,1	
Error (95% confidence Interval)	10 %	7 %	9 %	19 %	19 %	14 %	14 %	10 %	9 %		
Cryptomeria 20 - 30 years	2177	23,4	15,7	0,34	668,98	26,04	90,7	18,2	2.194,0	17.30742,7	
Error (95% confidence Interval)	10 %	7 %	9 %	22 %	14 %	14 %	10 %	9 %			
Cryptomeria > 30 years	1811	26,8	18	0,51	806,62	22,05	96,7	20,8	4.017,9	3.952.302,2	
Average	1811	26,8	18	0,51	806,62	22,05	96,7	20,8			
Error (95% confidence Interval)	10 %	9 %	6 %	23 %	14 %	14 %	11 %	6 %			

Azorean Cryptomeria

Scientific name : *Cryptomeria japonica* D. Don

Common names: Criptoméria (Portugal); Cryptomérie du Japon (France); Cryptomeria or Japanese cedar (UK/USA); Japanisch Cryptomerie (Germany); Sugi (International).

Family: *Taxodiaceae*

Origin: Originally from the Far East, and spontaneous in the central and southern islands of Japan.

Habit: Reaches 50 meters with a dense pyramidal crown, evergreen, with strong and cylindrical trunk, with slender branches.

Wind and frost resistant, usually used as windbreaks.

Ornamental specie with forestry interest, not protected.

Habitat: Quick growth in warm and humid regions, with high annual rainfall or evenly distributed throughout the year, or subjected to frequent fogs. It requires deep humid soil, in valleys or slopes of mountains. Appears from 150 m, but the optimal growth is between 300 to 800 m.

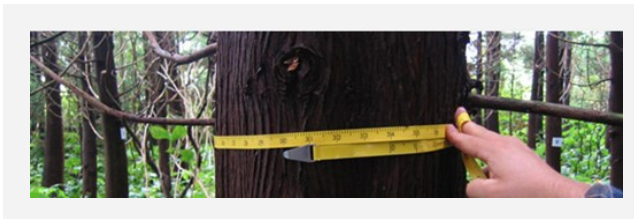
Wood processing: The wood is soft and easy to work. Has fast drying and easy to perform, presents an excellent durability. Good suitability for gluing.

Principal uses: Cryptomeria wood has excellent quality for a proper range of uses with almost no similar.

- Cross laminated timber - CLT
- Glued laminated timber - GLULAM
- Laminboards and plywood
- Wall cladding, dividers and insulation
- Doors, windows and frames
- Trusses and roofs
- Prefabricated houses
- Formwork for construction
- Solid wood packaging
- Internal parts of furniture

Forest Inventory

The Government of the Azores through the Regional Directorate for Forest Resources develops the Forest Inventory, which main objective is to generate graphical and numerical information on land use, as well as the assessment of wood material. All of the generated information is incorporated into a GIS, with all of the advantages associated in synthesis, analysis and intersection of various types of information.



International Public Competition

The unique characteristics of Cryptomeria, the controlled origin of the wood and the forest management certification are decisive factors for integration of Azorean forest products in the international market.



Management and Forest Certification

Taking into account the importance of the forest, the Government of the Azores defined a strategy based on the promotion, incentive and modernization of the forest sector, and also through responsible forest management.

Through the implementation of a management system in accordance with the standards of the major global certification initiatives, the Azorean Government intend to establish long term production and conservation commitments with important effects on land use planning. This process has started with the certification of a pilot area in January 2014, and the Government intends to extend the certification to all public forest areas.

The Azorean Government with an active management of public forests, has started a process of international public competitions intended to sale standing wood, mainly *Cryptomeria japonica* stands, including the reforestation of the cut areas.

The total area of public Cryptomeria stands on São Miguel Island is 2119 hectares. The forest management plan forecast the harvest of around 100 hectares per year, representing about 80.000 cubic meters to be placed in the market.



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CRIPTOMÉRIA DOS
AÇORES