Thammineni Pullaiah · Sudhir Chandra Das
Vishwas A. Bapat · Mallappa Kumara Swamy
Vaddi Damodar Reddy
Kondragunta Sri Rama Murthy *Editors*

Sandalwood: Silviculture, Conservation and Applications

Springer

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Botany of Sandalwood (*Santalum album* L.)

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Thammineni Pullaiah and Subbiah Karuppusamy

Abstract

The genus *Santalum* has been included in Santalaceae family, and is categorized as a hemiparasitic plant. This genus is represented by about 19 accepted tree species that are distributed in India, Indonesia, Philippines, Pacific Islands, and Australia. *S. album* is the most famous and treasured species, and is also known as Sandalwood, Indian Sandalwood, or White Sandalwood. The tree is well known for its uses worldwide, since the ancient times. Presently, this species is categorized as a "vulnerable species", because of over-exploitation of trees from their natural habitats. Consequently, Sandalwood products have become costly and rare, and various efforts have been taken by the Indian government to protect this appreciated resource. This chapter provides the botany, identification characters, distribution, phenology, anatomical features, reproductive biology, breeding system and variations of Sandalwood in their environmental gradients with photographs.

Keywords

Sandalwood · *Santalum* · Santalaceae · Taxonomy · Reproductive biology

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Sandalwood: Silviculture, Conservation and Applications

This book collects comprehensive information on taxonomy, morphology, distribution, wood anatomy, wood properties and uses. It also discusses silvicultural aspects, agroforestry, pests and diseases, biotechnology, molecular studies, biosynthesis of oil, conservation, trade and commerce of Sandal wood. Sandalwood (*Santalum album* L.) is considered as one of the world's most valuable commercial timber and is known globally for its heartwood and oil. The book brings together systematic representation of information with illustrations, thus an all-inclusive reference and field guide for foresters, botanists, researchers, farmers, traders and environmentalists.

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