

Tropical tree seeds: supply, testing and solutions

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Abstract

Tropical forests play a crucial role in maintaining biodiversity, providing environmental services, regulating the climate, and serving as carbon storage in leaves and roots.

To meet the reforestation programs proposed by several countries, it is essential to have seeds of both high quality and sufficient quantity. To obtain quality seeds, it is important to consider the ideal collection point, defined by physiological, physical, and genetic aspects.

For seed production in adequate quantities, partnerships with local communities should be established, with proper guidance on the best practices for seed collection, storage, and transportation through training. With the growing demand for seeds to support ambitious reforestation programs, the forest seed trade has experienced significant growth, and seed analysis is crucial to ensure the availability of quality seeds in the market. For most tropical forest species, methodologies for testing physiological quality are still undefined, making further research necessary in this area.