

Smallholder Plantation Towards Quality Timber Production



LONG-TERM TEAK PLANTATIONS TOWARDS GOOD QUALITY TIMBER

Forest Industry Organization

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Smallholder Plantation Towards Quality Timber Production

Give Green Grow for Sustainability







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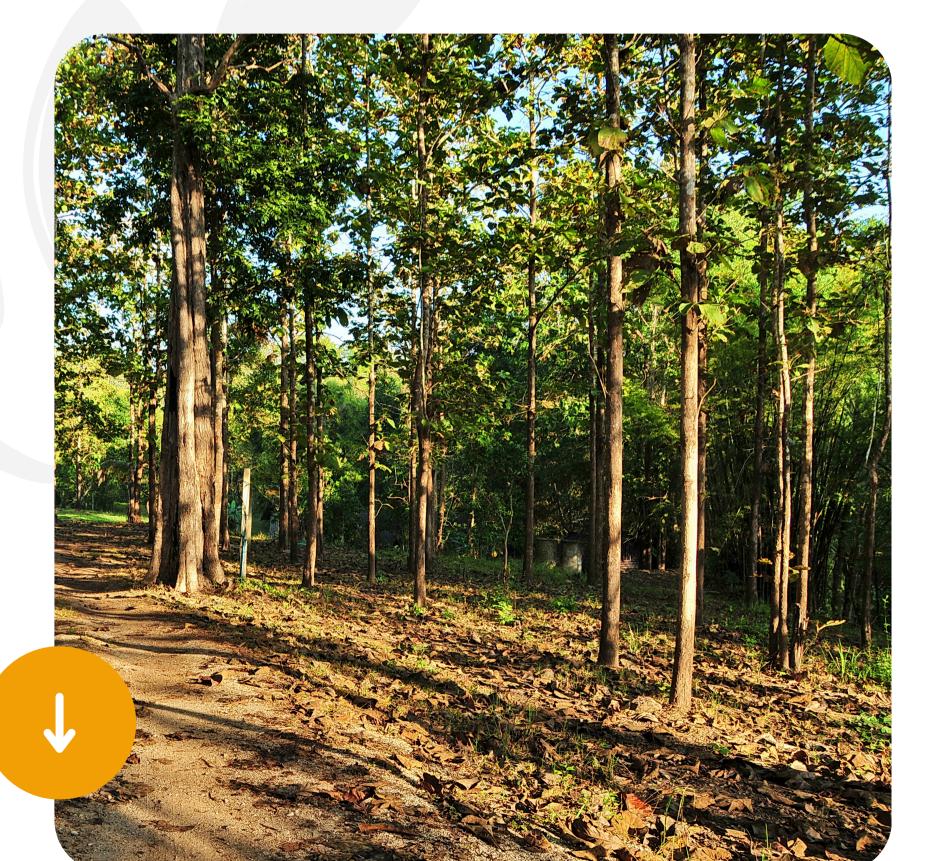
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Introduction



There are 169,600 ha of economic forest plantation areas in 238 forest plantation in Thailand.

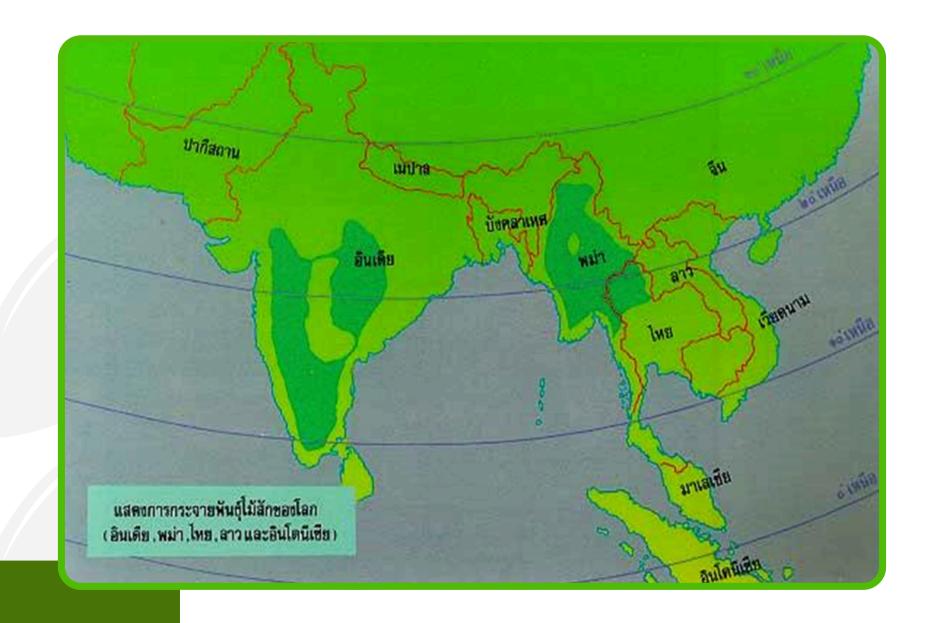


Teak covering a significant 78,325 ha.





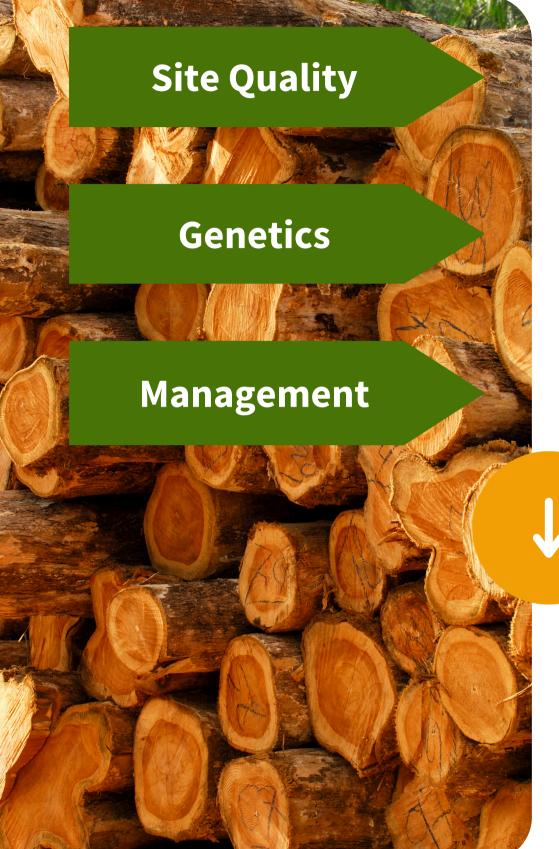
Origin of teak: Tropical zones including India, Myanmar, Thailand, Lao PDR. Indonesia, Bangladesh, Nigeria, Costa Rica and Brazil etc.















Common name: Teak







Suitable site qualities of teak in Thailand







Soil

Loamy soil, deep topsoil, and good drainage



1,200-2,500 mm/year

Temperature

13-40
degree
Celsius

Elevation

Less than
700 m.
above sea
level



No flooding

Slope

Less than 45 degrees











Genetics: High quality seeds and seedlings

Use quality seeds or seedlings from a reliable source: RFD/FIO seed orchard, seed collection plots, laboratory etc.

Management





Site Preparation

Site Preparation





Planting

Maintenance



















The most popular spacing is 4 x 4 meters.





- Fertilization: 25-100 g/seedling (1-4 yrs.)
- Firebreak creating: Create inspection and fire prevention lines around the plot.
- Disease and insect prevention:Planting bamboo and other species to reduce the spread of diseases and insects.























To improve the quality of most tree trunks that are logs to be straight and free of buds.







Thinning	Age (Year)	System	Remaining trees
1. First Thinning	13-15	Low Thinning	50%
2. Second Thinning	20-22	Low Thinning+ Selection Thinning	25%
3. Third Thinning	30	Low Thinning+ Selection Thinning	4-8%





















Rotation Expansion









Principles of FSC







- Compliance with the laws of the country
- 2. Workers' rights and employment conditions
- 3. Indigenous peoples' rights
- 4. Relations with local communities
- 5. Profits generated by the forest
- 6. Values and environmental impacts of forest management
- 7. Management Planning
- 8. Monitoring and assessment of management practices
- 9. High conservation values
- 10. Practical implementation of management activities



FIO-FSC Certificate





In 169,600 hectares of 238 FIO forest plantations, There are 78,325 hectares of 71 FIO forest plantations in 4 FSC/FM-CoC certificates below.

