

Title	:	AICRP-18: Silvicultural Interventions For Productivity Enhancement And Carbon Sequestration In Plantations Of Important Tree Species
National Project Coordinator	:	Dr. C. Buvaneshwaran
Co-Investigator	:	
Duration	:	5 Years
Objectives	:	<ol style="list-style-type: none"> 1. To study the effect of various micro-irrigation regimes in block and boundary plantations of Teak, Gmelina, Adina, and Cadamba 2. To investigate effect of various tree density on qualitative and quantitative improvement in rainfed plantations of Ailanthus, Neem and Pungam in block and in boundary planting 3. To investigate effect of various tree density on qualitative and quantitative improvement in Adina plantations 4. To investigate effect of mixed planting of Casuarina and <i>Acacia auriculiformis</i> with Teak on qualitative and quantitative improvement in plantations in block and in boundary planting. 5. To investigate the influences of silvicultural interventions on wood quality 6. To assess carbon sequestration potential and financial analysis of plantation of important tree species under varied silvicultural interventions.
Progress	:	<p>In the recent years, trees outside the forests (ToFs) is receiving increased attention and play a vital role in increasing wood supply and enhancing livelihood support to the farming communities. However, there exists dearth of information on optimum silvicultural requirement particularly in water and spacing requirements. The study also envisages on assessment on the complimentary benefits of mixed planting systems particularly mixed planting of teak with N-fixing trees like Casuarina/ <i>Acacia auriculiformis</i>. The institute-wise progress made till now under this project is as below:</p> <p>IFGTB</p> <p>The progress made till now under this project is that i) Procured Teak seeds from KFRI and seeds of <i>Acacia auriculiformis</i> has been procured from GTI Division of IFGTB. Continued production and maintenance of planting stocks, ii) Completed assessment on growth in 28 boundary planting and two block plantations of Teak</p>

	<p>in Coimbatore district, iii) Initiated recording of growth of Ailanthus and Neem plantations in Coimbatore district and iv) Identified farm fields for raising of trials. During this six monthly period, assessment on growth done in 5 block and 5 boundary teak plantations, assessment on growth done in 25 Gmelina arborea plantations, procured 10,000 casuarina hybrid clonal plants for establishing mixed planting with teak and established teak + casuarina mixed boundary planting in 2 locations.</p>
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