

PROJECTS COMPLETED DURING THE YEAR 2007-08

PLAN PROJECTS

Project 1: Screening of natural populations of *Lagerstroemia* spp. for domestication [FRC-05/TI-02/2003-07]

Findings: Two species of *Lagerstroemia* prevalent in AP and Karnataka were surveyed and several populations were identified. The processes of germplasm collection and multiplication by vegetative means have not been successful. The seed from different places is collected and planted from the better known populations.

Project 2: Natural variation studies in Rosewood (*Dalbergia latifolia* Roxb.) for tree improvement [FRC -04/TI-02/2003-07]

Findings: The number of plus trees were marked in various parts of the AP and Karnataka. There is a total of 399 trees raised from 48 plus tree population from both Karnataka (100) and from A.P. (299). Apart from this, a total of 30 root suckers survive in the field which was well maintained.

Project 3: Estimation of variability in *Pterocarpus marsupium* and germplasm collection [FRC-07/TI-04/2003-07]

Findings: The number of plus trees were marked in various parts of the Andhra Pradesh and Karnataka. A total of 400 seedlings were planted in FRC Campus from selected mother trees from different places.

Project 4: Studies on phenotypic variation in *Pterocarpus santalinus* and collection of germplasm [FRC-04/TI-01/2003-07]

Findings: Survey was conducted in AP in the districts of Kurnool, Cuddapah and Chittoor and identified prominent trees for collection of germplasm. Vegetative propagation technique has been standardized. Propagated 250 plants from different collections and maintained them well.

Project 5: Dynamics of insect populations in cotton based agroforestry systems of Andhra Pradesh [FRC-08/EB-04/2003-08]

Findings: An agroforestry system with six tree species and cotton as intercrop was established in an area of two ha in FRC, Hyderabad campus. The tree components are *Eucalyptus* sp., *Azadirachta indica*, *Annona squamosa*, *Emblica officinalis*, *Moringa oleifera*, and *Dendrocalamus strictus*. Central idea of the project is to study the insect pest dynamics in diversified habitat conditions. Data on incidence of insect pests and their natural enemies were recorded on intercrop as well as tree components.