

Stock Mapping and Stand Volume Estimation for Preparation of Forest Working Plans for Forest Divisions of Uttar Pradesh using remote sensing & GIS Techniques

Objectives:

To prepare stock maps & stand volume estimation for forest working plan/management plans of different forest divisions of U.P.

Study Area:

Gonda Forest Division, Balrampur Forest Division, Shiwalik Forest Division, Raebareli, Ballia, Ghazipur, Jaunpur, Varanasi, Bhadohi, Bijnor, Siddarthnagar, Basti (St. Kabirnagar), and South Kheri Forest Division.

Brief Description:

The project envisaged mapping of different types of forest, their exact boundaries, forest density, stand volume, encroachments if any, existing water bodies, etc. within each forest division using latest IRS LISS-III, and PAN data in collaboration with U.P. Forest Dept. For achieving the final target of preparation of Forest working Plan/Management Plan of each forest division, RSAC-UP has provided the necessary inputs of stock maps and timber volume, forest type/species wise and density wise to the Forest Dept. Enumeration on stratified random samples was done by Forest Dept., followed by joint field verification. The remote sensing data analysis was carried out using ERDAS Imagine and ArcGIS software.

Funding Agency:

Uttar Pradesh Forest Dept. Lucknow

Project Personnel:

Dr. T.S.Kachhwaha, Head-FRED & Project Manager, Dr. P.Kunwar, Scientist 'SD', Project Coordinator, Dr Anil Kumar and other Project Scientists.