

Computer Processing of LANDSAT Data for Forest Resources Study in the Region Between Lucknow and Allahabad Extending upto Mirzapur City

Year of Starting: 1984

Year of Completion: 1987

Funding Agency & Funds Received: In-house plan project.

Objectives: To prepare a Forest / Vegetation and broad land cover map of the region.

Data Used : LANDSAT MSS digital data of November 16, 1984.

Salient Results: Analysis of satellite digital data made it possible to identify and map following categories of forest and non-forest land cover classes.

- * Dhau-Kardhai dominated forest
- * Khair dominated forest
- * Babul forest
- * Miscellaneous forest
- * Scrubs
- * Orchards
- * Agricultural crops
- * Hydrophytes
- * Salt-affected land
- * Stony waste
- * Waterbodies / marshy land
- * Settlements

Study indicates that the spectral signatures of different forest classes also vary because of crown density in addition to other parameters. Spectral signatures were also found to be indicators of the accuracy of the supervised classification.

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Recommendation/Special Achievements: It was recommended that afforestation should be taken up in scrub area in order to check forest degradation and land erosion.

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