

Integrated Study to Combat Drought using Remote Sensing Techniques, Lalitpur District, U.P.

Year of Starting: 1992

Year of Completion: 1995

Funding Agency & Funds Received : Dept. of Space, Govt. of India. Rs. 22.00 Lakhs.

Objectives: The main objective of the project was to prepare various resource maps on 1:50,000 scale and its integration together with socio-economic data in order to prepare site specific action plan to combat drought and ultimately sustainable development of the district.

Study Area: Lalitpur district, U.P.

Data Used: Two seasons IRS-1A, LISS-II data of 1988-89

Salient Results:

- Thematic maps on landuse/landcover, soils, Hydrogeomorphology, lithology, watershed, drainage/waterbodies, Slope, transport network, settlement locations and socio-economic status were prepared.
- Following site specific action plans for sustainable land & water resources development were prepared.
 - * Intensive agriculture/double cropping
 - * Agro horticulture
 - * Agroforestry
 - * Horticulture
 - * Silvipasture /fuel & fodder plantations
 - * Afforestations /forest plantation
 - * Sites for water harvesting structures
 - * Sprinkler /drip irrigation

Report No. : Jan., 1996

Recommendation/Special achievement: Solutions for land and water resources development were prepared in order to combat drought and for sustainable development. For the first time, under a nation wide programme, integrated watershed development approach was adopted for district level planning and development.

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