

# **Analysis – Map Overlay**

### 3. Management

DBMS is a database management software package manage tables, indexes, query, and other procedures in a database.

### Overlay Analysis

- Analytical operations require one or more data layers to be joined physically or spatial join, can integrate data on soils, slope, and vegetation, or land ownership
- tracing of geographic data directly on top of the aerial imagery instead of through the traditional method of tracing the geographical form on a separate digitizing tablet.
- digital satellite images are be analyzed to produce a thematic map layer of digital information. Similarly, census tabular data can also serve as of thematic information layer

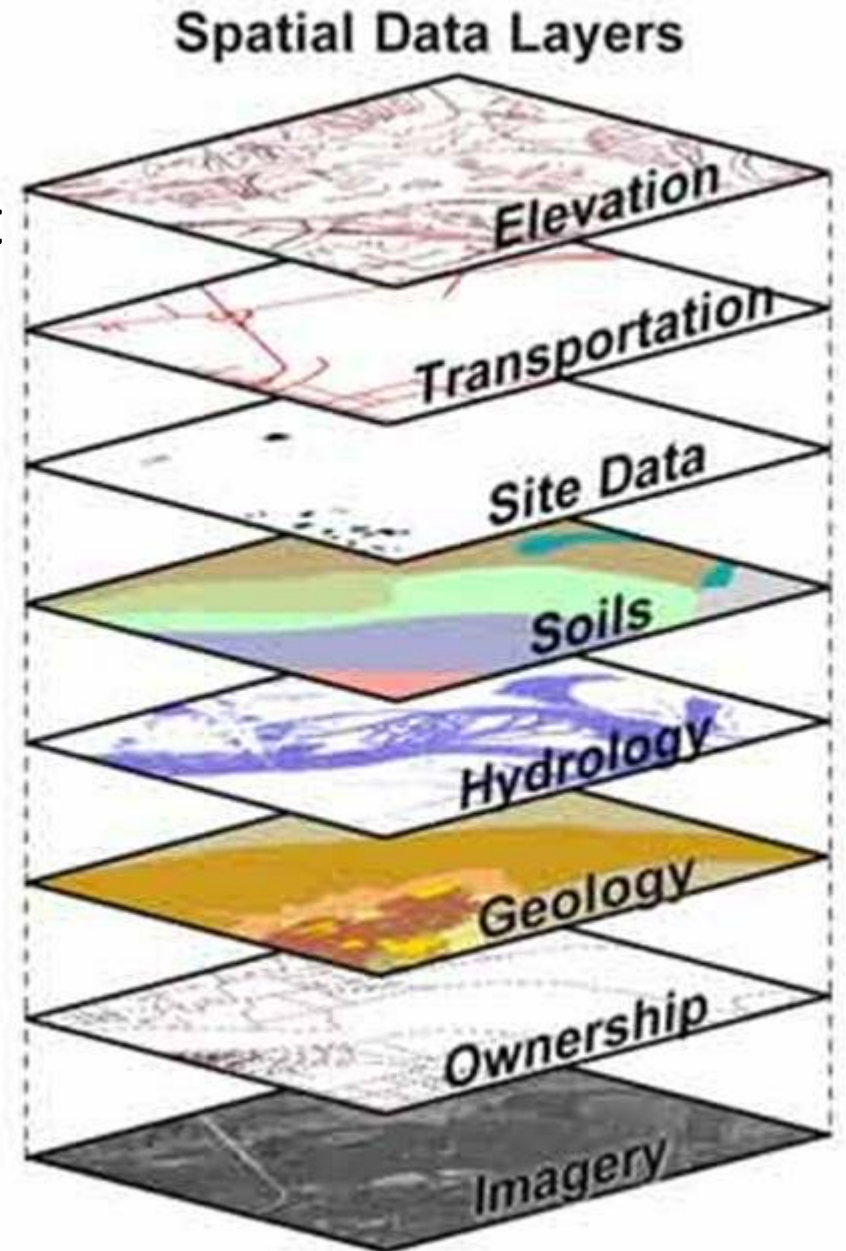
## Map overlay

Combination of several spatial datasets (points, lines, or polygons) and creates a new output vector dataset - stacking several maps

union overlay combines the geographic features and attribute tables of both inputs into a single new output.

intersect overlay defines the area where both inputs overlap and retains a set of attribute fields for each.

Symmetric difference overlay - an output area that includes the total area of both inputs except for the overlapping area.

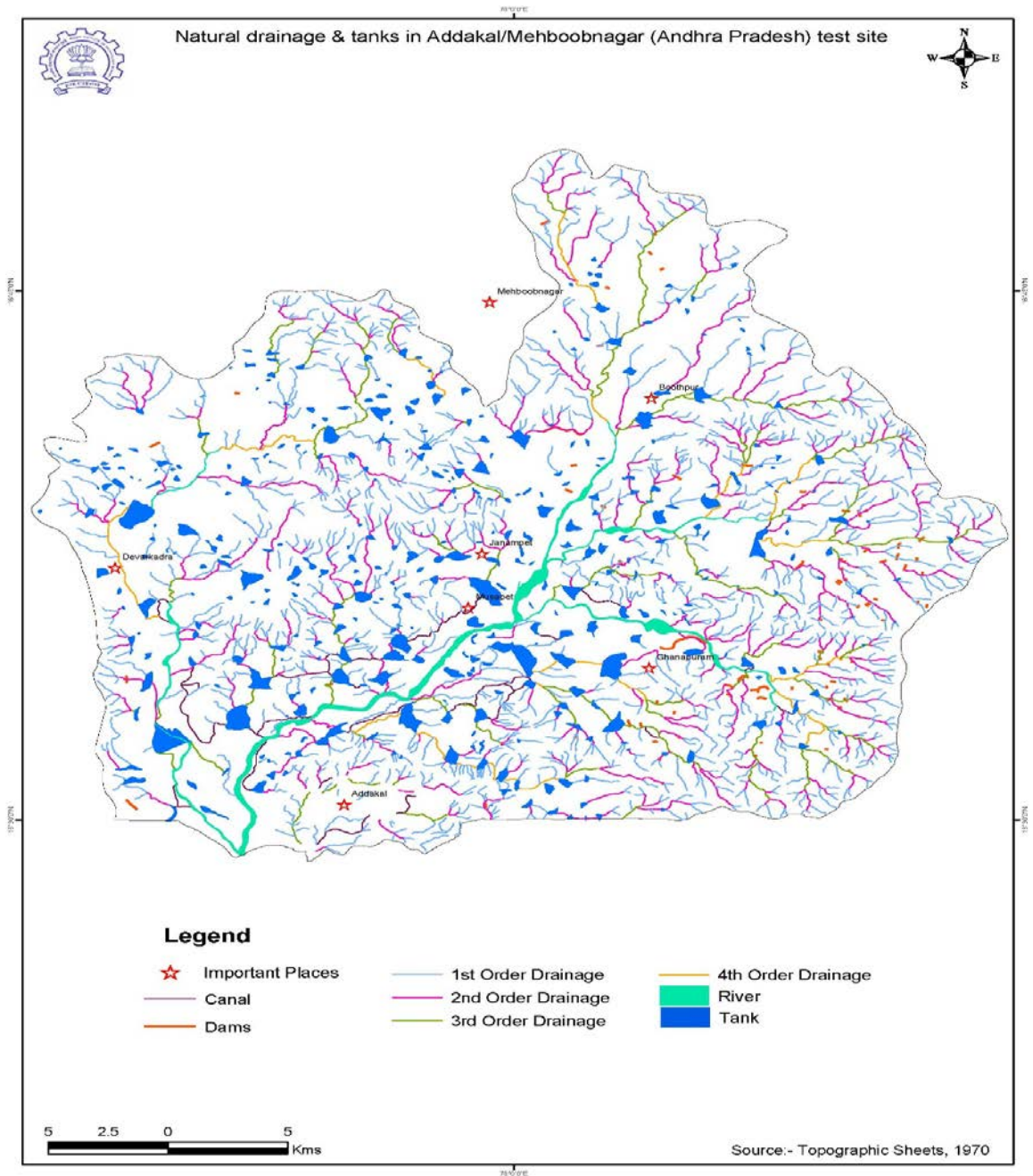
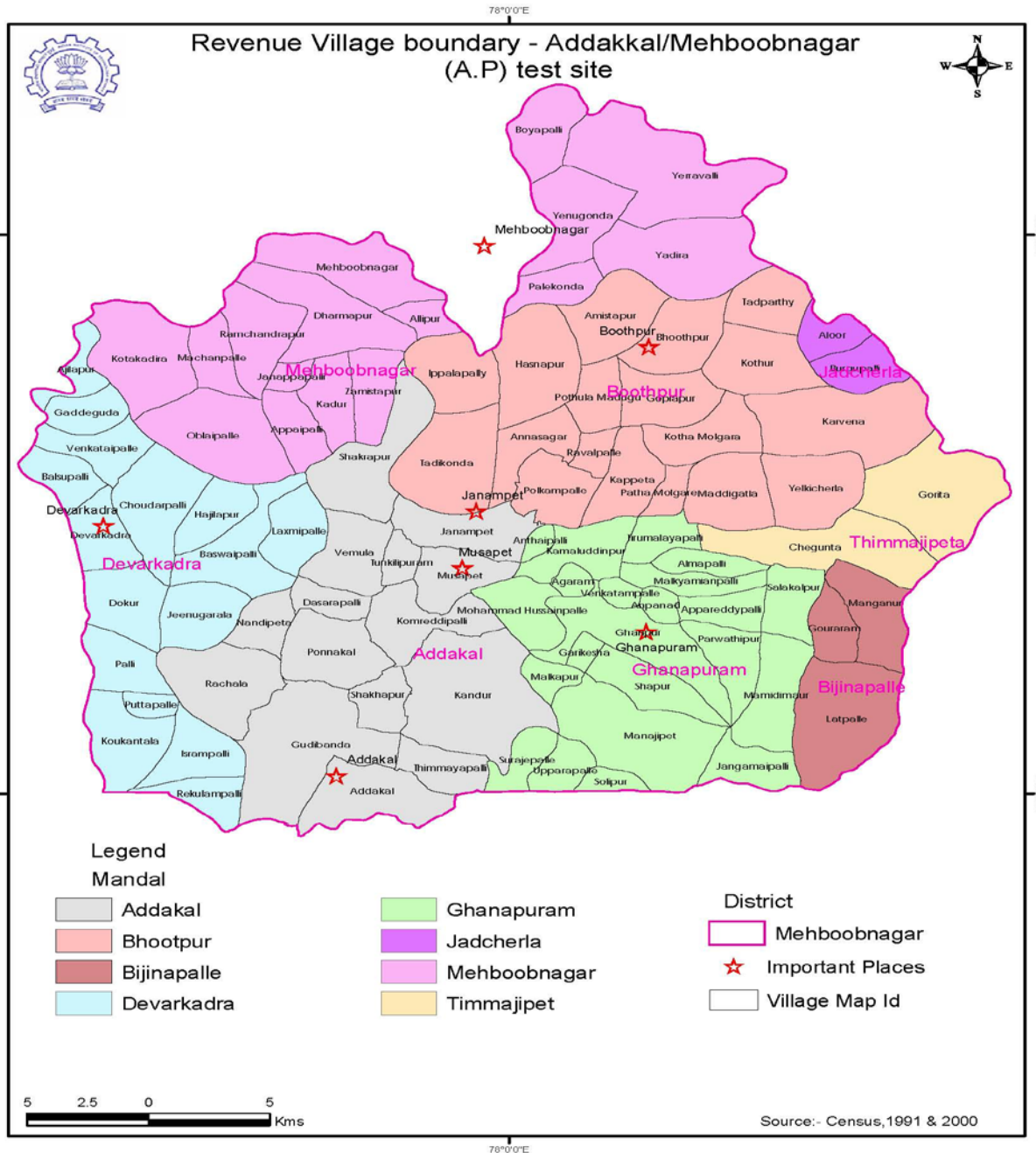


## Topological modelling

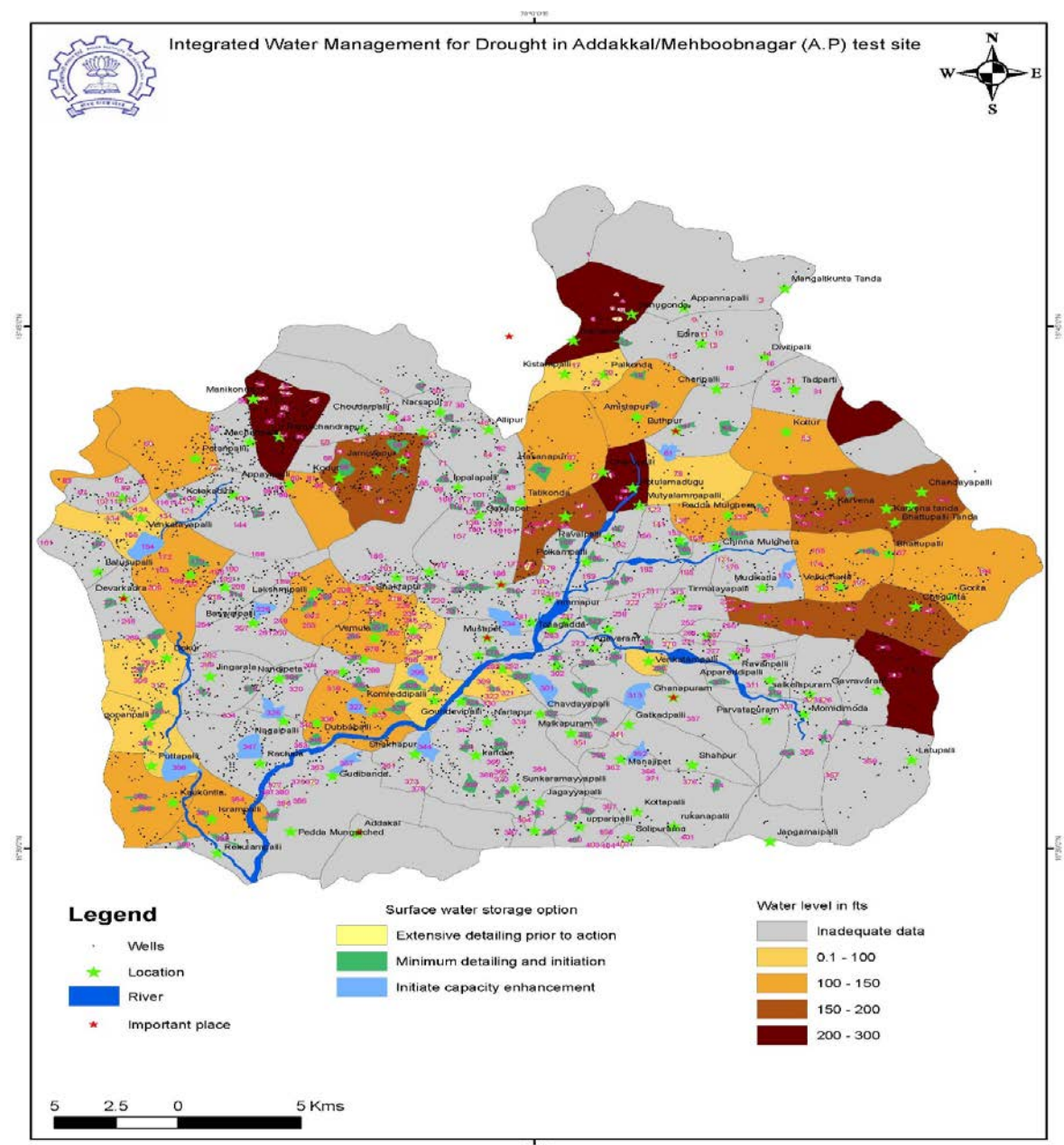
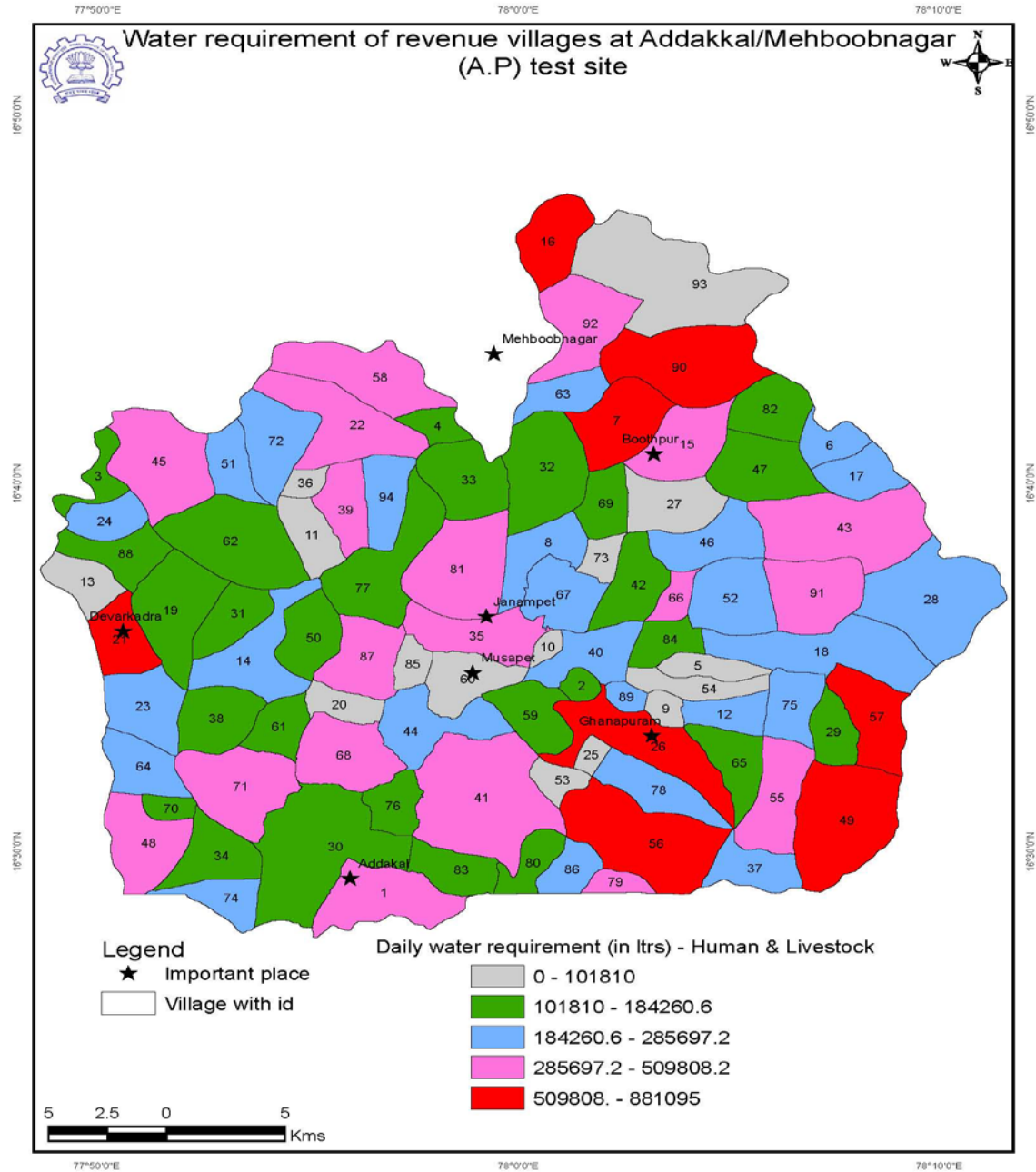
- It is the relationships between geometric entities traditionally include adjacency (what adjoins what), containment (what encloses what), and proximity (how close something is to something else).

## Networks

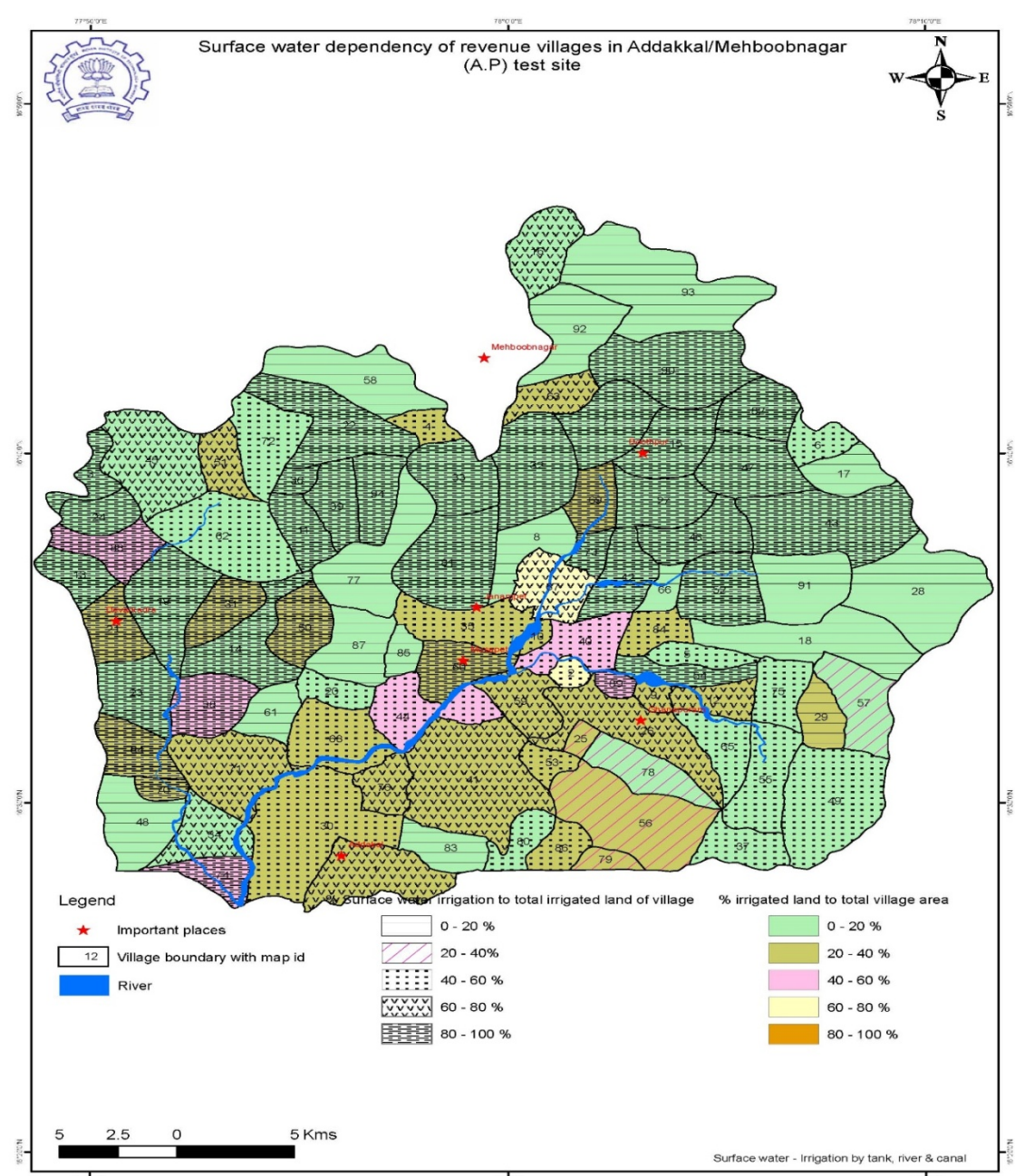
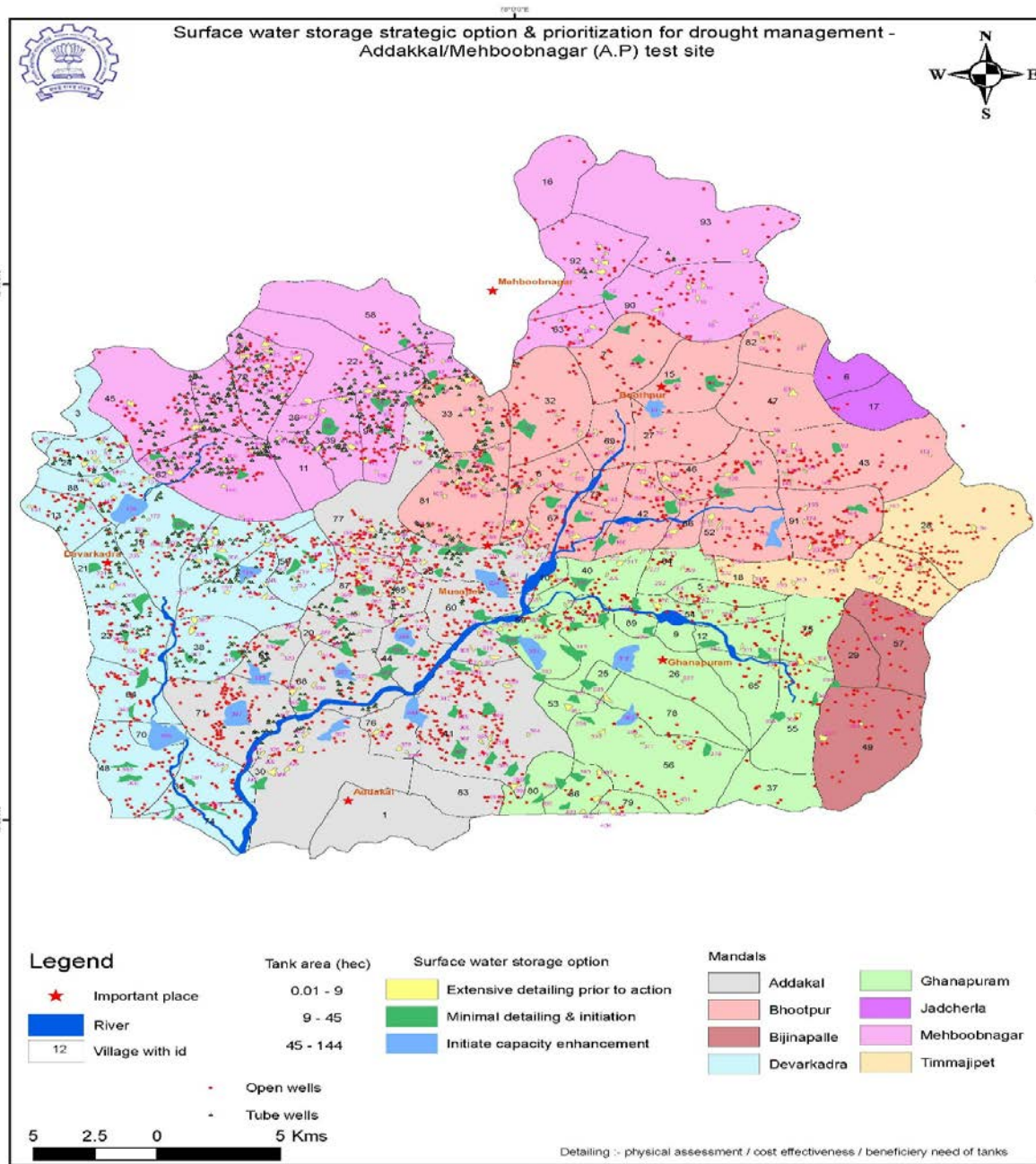
- Simulate the routing of materials along a linear network. Values such as slope, speed limit, or pipe diameter can be incorporated into network modelling in order to represent the flow of the phenomenon more accurately.
- It is commonly employed in transportation, hydrology and infrastructure modelling studies.













Village boundary for Addakkal/Mehboobnagar (A.P) test site over satellite image of march 17, 1998 (IRS 1C)



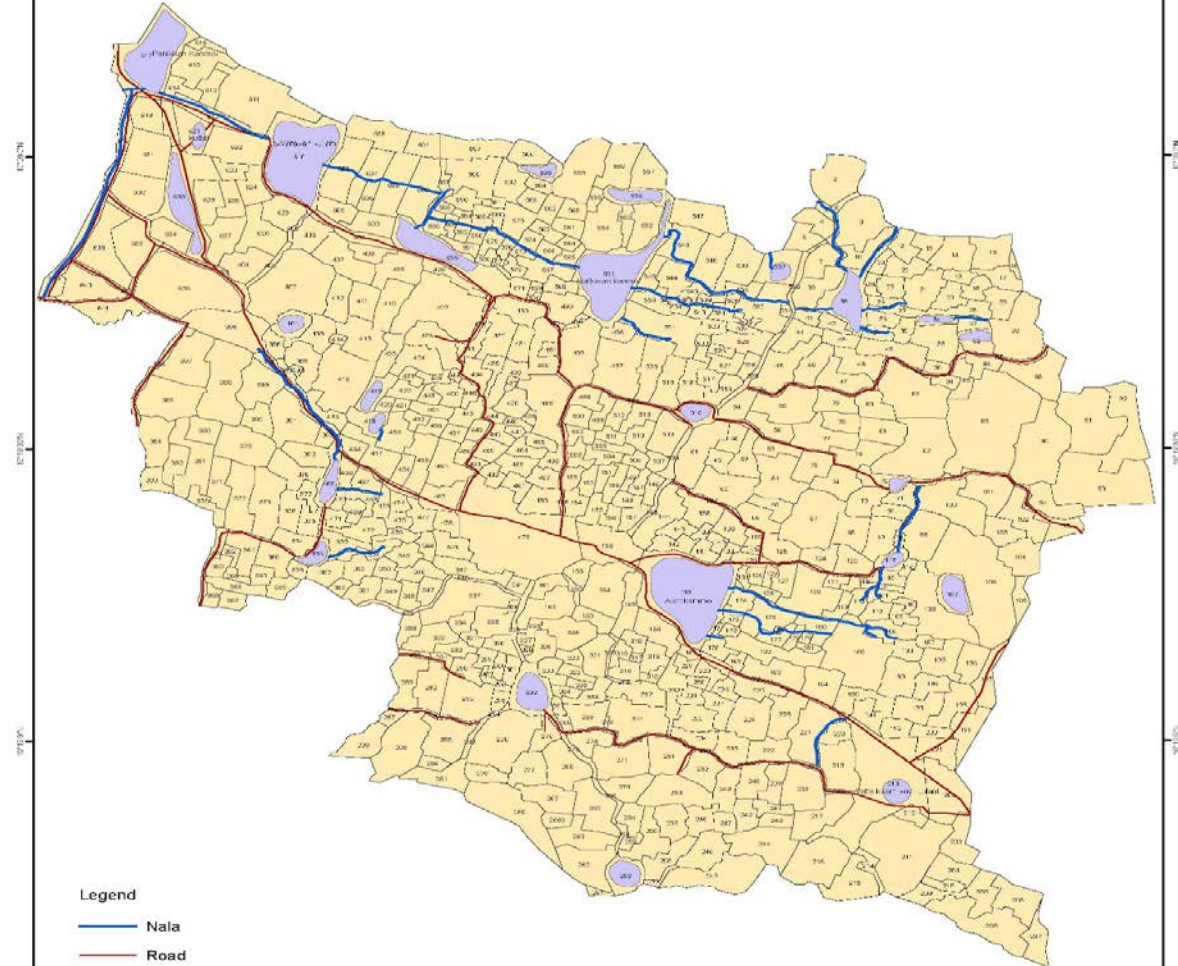
Legend

- ★ Important Places
- Village Boundary



(Source - Village Maps)  
(RS P6 LISS 3 data on March 23 2006)

Cadastral map of Alavayal village (map\_id 04)  
Tirumayam/Puddukottai test site Tamil Nadu



Legend

- Nala
- Road
- Tank
- Farm Land



Source :- Cadastral map