



## **Hydrological Modeling of Cauvery Basin**

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## SWAT modeling in Cauvery Basin







Tamil Nadu Source: Soil Science and Agricultural Chemistry Department, TNAU Scale: 1:50,000



## **Preliminary Results**

**Cauvery Basin** 































- How much is the current irrigation demand with the existing cropping practices?
  How much water is available in major reservoirs?
- How much will be the future irrigation demand with climate change with no change in current practices?
  - How much water will be available in major reservoirs?
- HRU/Subbasin results summarized by administrative boundaries (District / Taluk)

## Expected outcomes (Contd.)

- What is the impact of alternative cropping practices?
  - Say if 10% or 20% or 30% of irrigated area convert to a less water intensive crop.
- What is the impact of SRI
  - Say in 10% or 20% or 30% of the paddy growing area
- To liaise with the team members working in socio-economic model
  - to understand their needs from the hydrologic model
- Any other viable alternative practices that could be explored based on discussion