


Knowledge-Rich Catalogs of Models

[Garijo et al eScience 2019]


1. Model invocation
2. Data formats
3. Model variables
4. Constraints
5. Adjustable parameters
6. Interventions



Model Catalog

Search models Search on Full text

1 version




Category: Hydrology
Type: Theory-

The Soil & Water Assessment Tool (SWAT)

The Soil & Water Assessment Tool (SWAT) is a small watershed to river basin-scale model used to simulate the quality and quantity of surface and ground water and predict the environmental impact of land use; land management practices and climate change (<https://swat.tamu.edu/> 2019)

Keywords: Soil, watershed, surface water, ground water, en... [More details](#)

2 versions




Category: Agriculture
Type: Theory-

Cycles

Cycles simulates the productivity and the water-carbon and nitrogen balance of soil-crop systems subject to climate conditions and a large array of management constraints

Keywords: agriculture, cycles, crop growth, weather, soil, cr... [More details](#)

4 versions



Category: Economy
Type: Theory-

Economic aggregate crop supply response model (EACS)

The Aggregate crop supply response model (EACS) describes the aggregate crop supply response model for the country of South Sudan. This is a regional-scale aggregate model of agricultural supply for a specified set of crops (cassava; groundnuts; maize; sesame seed; and sorghum).

Keywords: economy, land use, crop production, fertilizer c... [More details](#)