SWAT model

	Digital elevation model (DEM), soil, land cover/land use, weather	Measured, simulation, local data
	Calibration & validation	
Water conveyance efficiency of canal	Scenario 1 - irrigation; scenario 2 - no irrigation	

Total irrigation water use · Field irrigation water use · Ground water use · Field discharge · Green water use

Canal water loss

Blue water use (*BWU*) · Green water use (*GWU*) · Crop yield (*Y*)

$WF_{blue}=BWU/Y$ · $WF_{green}=GWU/Y$

$$WF = WF_{blue} + WF_{green}$$