

DSS FUNCTIONS
AGWA2 system base functionality

Type	Function	Inputs needed	Outputs
Watershed	<ul style="list-style-type: none"> - Delineate - Break into sub-watersheds (response units) - Create channel network 	<ul style="list-style-type: none"> - Topography - Rating curves (if ponds are used) 	<ul style="list-style-type: none"> - Response units - Channel network
Parameterization	<ul style="list-style-type: none"> - Parameterize response units - Parameterize channels 	<ul style="list-style-type: none"> - Response units - Channel network - Soils - Land cover 	<ul style="list-style-type: none"> - Parameter files
Simulation	<ul style="list-style-type: none"> - Run simulations 	<ul style="list-style-type: none"> - Parameter files - Precipitation - Temperature - Groundwater inputs 	<ul style="list-style-type: none"> - Infiltration (S,K)* - Stream flow <ul style="list-style-type: none"> S – daily, monthly, annually K – minute - Peak flow (K) - Sediment yield (S,K) - Evapotranspiration (S) - Nitrogen (S) - Phosphorous (S) [For each response unit, channel, and watershed]
Calibration	<ul style="list-style-type: none"> - Parameter multipliers - Climate multipliers 	<ul style="list-style-type: none"> - Observed stream flow - Observed sediment, N, P 	<ul style="list-style-type: none"> - Modified parameter files - Modified climate inputs
Scenario generation	<ul style="list-style-type: none"> - Land cover modification tool (manual, random, or fractal clustering) - Parameterize response units and channels - Climate multipliers 		<ul style="list-style-type: none"> - Modified land cover - Modified parameter files
Visualization	<ul style="list-style-type: none"> - View simulation results - Differences between simulations 	<ul style="list-style-type: none"> - Simulation outputs 	<ul style="list-style-type: none"> - Watershed map showing outputs, difference, or % difference for each response unit

* S = SWAT model
K = KINEROS2 model