

Distributed input data

Rainfall
Initial soil water content

Soil survey

D.E.M.

Vegetation and land use

↓
Hydraulic conductivity
Saturated water content
Soil suction
Soil thickness

↓
Hillslope
Flow pathway
Drainage network

↓
Surface roughness

EVENT

WATERSHED

↓
Surface runoff*

↓
Overland flow*

↓
Drainage network flow*

Infiltration*

.....
Subsurface flow*

VERTICAL FLUXES

LATERAL TRANSFERS

***Distributed output variables**

Output hydrographs

