

Parameter	Units	Parameter Description
RDF	–	Controls the distribution of total monthly rainfall over four iterations
AI	Fraction	Impervious fraction of sub-basin
PI1 & PI2	mm	Interception storage for two vegetation types
AFOR	%	% area of sub-basin under vegetation type 2
FF	–	Ratio of potential evaporation rate for Veg2 relative to Veg1
PEVAP	mm	Annual sub-basin evaporation
ZMIN	mm month ⁻¹	Minimum sub-basin absorption rate
ZAVE	mm month ⁻¹	Mean sub-basin absorption rate
ZMAX	mm month ⁻¹	Maximum sub-basin absorption rate
ST	mm	Maximum moisture storage capacity
SL	mm	Minimum moisture storage below which no GW recharge occurs
POW	–	Power of the moisture storage – runoff equation
FT	mm month ⁻¹	Runoff from moisture storage at full capacity (ST)
GPOW	–	Power of the moisture storage – GW recharge equation
GW	mm month ⁻¹	Maximum ground water recharge at full capacity, ST
<i>R</i>	–	Evaporation-moisture storage relationship parameter
TL	months	Lag of surface and soil moisture
CL	months	Channel routing coefficient
DDENS	–	Drainage density
<i>T</i>	m ² d ⁻¹	Ground water transmissivity
<i>S</i>	–	Ground water storativity
GWSlope	–	Initial ground water gradient
AIRR	km ²	Irrigation area
IWR	Fraction	Irrigation water return flow fraction
EffRf	Fraction	Effective rainfall fraction
NirrDmd	Ml yr ⁻¹	Non-irrigation demand from the river
MAXDAM	Ml	Small dam storage capacity
DAREA	%	Percentage of sub-basin above dams
<i>A, B</i>	–	Parameters in non-linear dam area-volume relationship
IrrAreaDmd	km ²	Irrigation area from small dams
CAP	Mm ³	Reservoir capacity
DEAD	%	Dead storage
INIT	%	Initial storage
RES 1–5	%	Reserve supply levels (percentage of full capacity)
ABS	Mm ³	Annual abstraction volume
COMP	Mm ³	Annual compensation flow volume