

Parameter	Parameter description
Flow parameters	
ALPHA_BF	Baseflow alpha factor (days)
CANMX	Maximum canopy storage (mm H <sub>2</sub> O)
CH_K(1)	Effective hydraulic conductivity in tributary channel alluvium (mm h <sup>-1</sup> )
CH_K(2)	Effective hydraulic conductivity in main channel alluvium (mm h <sup>-1</sup> )
CN2	Initial SCS runoff curve number for moisture condition II
EPCO	Plant uptake compensation factor
ESCO	Soil evaporation compensation factor
GWQMN	Threshold depth of water in the shallow aquifer required for return flow to occur (mm H <sub>2</sub> O)
GW_REVAP	Groundwater “revap” coefficient
RCHRG_DP	Deep aquifer percolation factor
SOL_ALB	Moist soil albedo
SOL_K	Saturated hydraulic conductivity (mm h <sup>-1</sup> )
SURLAG	Surface runoff lag coefficient
TIMP	Snow pack temperature lag factor
Nitrogen and phosphorus parameters	
ERORGP	Phosphorus enrichment ratio for loading with sediment
PHOSKD	Phosphorus soil partitioning coefficient (10 m <sup>3</sup> Mg <sup>-1</sup> )
PPERCO	Phosphorus percolation coefficient (10 m <sup>3</sup> Mg <sup>-1</sup> )
PSP	Phosphorus availability index
P_UPDIS	Phosphorus uptake distribution parameter
SOL_ORGN	Initial organic N concentration in the soil layer (mg N kg <sup>-1</sup> soil)
SOL_ORGP	Initial organic P concentration in the soil layer (mg P kg <sup>-1</sup> soil)
NPERCO	Nitrogen percolation coefficient (10 m <sup>3</sup> Mg <sup>-1</sup> )
SOL_NO3	Initial NO <sub>3</sub> concentration in the soil layer (mg N kg <sup>-1</sup> soil)
CMN	Rate factor for humus mineralization of active organic nutrients (N and P)