

Parameter	Name	Lower bound	Upper bound
$X1$	production store maximal capacity (mm)	100	600
$X2$	catchment water exchange coefficient (mm)	-15	5
$X3$	1-day maximal capacity of the routing reservoir (mm)	1	300
$X4$	unit hydrograph time base (days)	0.5	6
split	proportion of flow directed to the routing store	0.6	0.99