

VIII.3.3-RES-SNGL-S-SUMO26 SUBROUTINE SUMO26

Description

Subroutine RUTE26 generates outflow subroutine (QGEN26) to compute inflow and required outflow volume for returning pool elevations to rule curve (or adjusted rule curve) elevation on a daily or weekly cycle.

Calling Sequence

SUBROUTINE SUMO26 (JSTART, JEND, JENDWK, JDARUL, SUMOUT, STOR1, FLOUT, QMDAY, QMNWEK, RULSTO, ADJSTO, SQIM, QIMHYD, BGNSUM, IBUG)

Argument List

<u>Argument</u>	<u>Input/ Output</u>	<u>Type</u>	<u>Dimension</u>	<u>Description</u>
JSTART	Input	I*4	1	Array position at end of first time interval in the cycle period
JEND	Input	I*4	1	Array position at end of last time interval in cycle period but cannot exceed the value of the last position in the inflow array
JENDWK	Input	I*4	1	Computed array position at end of daily or weekly cycle; JENDWK will be the same as JEND except when JEND is equal to the last position in the inflow array and JENDWK is greater than the last inflow position
JDARUL	Input	I*4	1	Day of week when pool is brought back to the rule curve elevation (-999.0 if the pool is brought back each day)
SUMOUT	Output	R*4	1	Summation of outflow required to bring the pool back to the rule curve elevation at the indicated time of day (and day of week if a weekly cycle); if the end of the cycle is past the last inflow array position then inflow past the last position will be assumed to be the same as inflow in the last array position and the rule curve storage at the end of the cycle will be assumed to the same

<u>Argument</u>	<u>Input/ Output</u>	<u>Type</u>	<u>Dimension</u>	<u>Description</u>
				as the storage at the end of the last array position; these assumptions permit the computation of SUMOUT past the last array position to the end of the cycle
STOR1	Input	R*4	1	Pool storage at the beginning of the first time interval in the JSTART to JEND period
FLOUT	Input	R*4	1	Required average outflow to keep from exceeding the upper limiting pool storage
QMNDAY	Input	R*4	1	Required minimum average daily outflow (-999.0 if not used)
QMNWEK	Input	R*4	1	Required minimum average weekly outflow (-999.0 if not used)
RULSTO	Input	R*4	*	Array of rule curve storages corresponding to positions in the inflow array
ADJSTO	Input	R*4	1	Adjustment to rule curve storage computed in QGEN26 from the elevation deviation computed in ARUL26; set to 0.0 if ARUL26 is not used
SQIM	Input	R*4	*	Array of cumulative mean inflow computed in routine SUMN26
QIMHYD	Input	R*4	*	Array of time interval mean inflows
BGNSUM	Input	R*4	1	Cumulative mean inflow at the first of the first time interval in the cycle period
IBUG	Input	I*4	1	Debug indicator: 0 = no trace or debug 1 = trace only 2 = trace and debug.