

II.4-RES-SNGL-A-SETH SINGLE RESERVOIR REGULATION OPERATION SCHEME PRESCRIBED ELEVATION

Description

Scheme SETH does not compute the period ending elevation (and its corresponding storage) but sets the value either as a specified constant or as passed in a time series.

Except for the possibility of a missing time series value, computations of period ending discharges are identical for both options for setting the elevation within this Scheme.

The mean discharge is computed using the continuity equation. Unless this mean discharge is negative, the instantaneous discharge is set equal to the mean discharge. If the computed mean discharge is negative, it and the instantaneous discharge are reset to zero and the period ending storage (and corresponding pool elevation) is recalculated using the zero discharge.

If the prescribed elevation is passed via time series, an option is specified indicating the action to be taken in the case of a missing data value. This can be either to pass inflow or to repeat a number of previous elevations.

Parameters

- (OPTION) - Option to indicate action to be taken for missing values (if prescribed values are passed via time series)
- (HVALUE) - Constant elevation (only needed if prescribed elevation is a constant)

Time-Series

- (SHTS) - Prescribed elevation time-series (only needed if values are passed via time series)

Carryover

- (OLDH) - Previous elevations for the specified number of periods if missing value option is used (only needed if time series is used and option is other than passing inflow)