PRECIP LOSS FUNCTION: P_{xs} (t) = init.abs. then const.loss

RUN #1

STAID-DATE: stall1111111_1968_0709
DATA DIR: d:\jvrabel\SWAP\UNIT\precip_loss_optimization\toWEB\BOTH\EXAMP
AREA [mi^2] 1.33

------ PRECIPITATION ------
TOTAL RAIN VOLUME [inches] 5.8333
EXCESS RAIN VOLUME [inches] 2.5109
PECENT RAIN VOLUME LOSS 56.9562

------ DISCHARGE ------
MEAN OBS Q [CFS] 112.4013
MEAN SIM Q [CFS] 89.2839
RMS Q RESIDUALS [CFS] 78.4125
Q RELATIVE BIAS .... -0.20567
Q NASH-SUTCLIFFE EFFICIENCY 0.8226
Q SIM vs OBS R^2 .... 0.85525
Q SIM vs OBS SLOPE 0.87569
Q SIM vs OBS INTERCEPT 34.2161

------ VOLUME ------
MEAN OBS V [CFS] 1.9698
MEAN SIM V [CFS] 1.6004
RMS V RESIDUALS [CFS] 0.45933
V RELATIVE BIAS .... -0.18751
V NASH-SUTCLIFFE EFFICIENCY 0.88846
V SIM vs OBS R^2 .... 0.99115
V SIM vs OBS SLOPE 1.213
V SIM vs OBS INTERCEPT 0.028431

------ OPTIMIZATION RESULTS ------
SIM/OBS TOTAL VOLUME RATIO 0.79431
MINIMIZED OBJECTIVE FUNCTION VALUE 1776922.6087
C_{opt} : 2.149   0.02488

LOSS RATE [INCH/5MIN]

OBS AND MODELED RAINFALL: RAW DATA USED

$\Phi = \Sigma(Q_{true} - Q_{est})^2$ (fbnd)

PRECIP [INCHES]

TIME [HOURS]

OBS AND ESTIMATED DISCHARGES

DISCHARGE [CFS]

TIME [HOURS]

DISCHARGE RESIDUALS

$(Q_{true} - Q_{est})$ [CFS]

TIME [HOURS]

OBS AND ESTIMATED ACCUMULATED VOLUME

VOLUME [INCHES]

TIME [HOURS]

ACCUMULATED VOLUME RESIDUALS

$(VOL_{true} - VOL_{est})$ [INCHES]

TIME [HOURS]