

RUN #4

STAD-DATE: sta22222222_1969_0214
DATA DIR: d:\jvlabel\SWAP\UNIT\precip_loss_optimization\towEB\BOTM\EXAMPLE
AREA [mi^2] PRECIPITATION 1.94

TOTAL RAIN VOLUME [inches] 1.2333
EXCESS RAIN VOLUME [inches] 0.71944
PERCENT RAIN VOLUME LOSS 41.6674

DISCHARGE

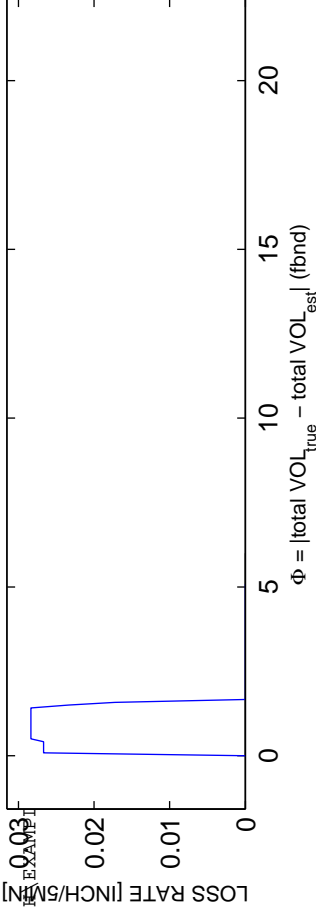
MEAN OBS Q [CFS] 37.3791
MEAN SIM Q [CFS] 37.2988
RMS Q RESIDUALS [CFS] 48.6248
Q RELATIVE BIAS -0.0021464
Q NASH-SUTCLIFFE EFFICIENCY -0.58391
Q SIM vs OBS R₂ 0.61127
Q SIM vs OBS SLOPE 0.41696
Q SIM vs OBS INTERCEPT 21.8268

VOLUME

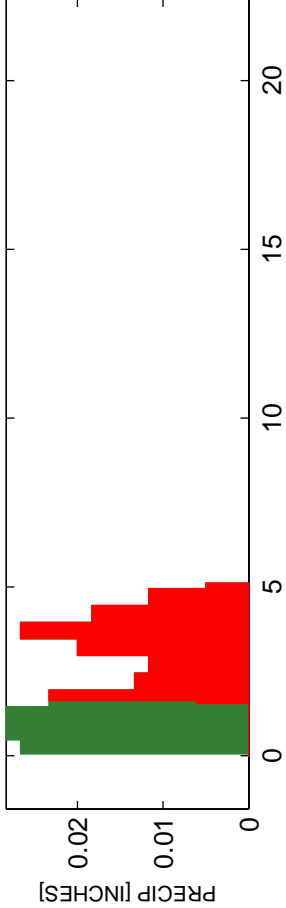
MEAN OBS V [CFS] 0.42808
MEAN SIM V [CFS] 0.50472
RMS V RESIDUALS [CFS] 0.11833
V RELATIVE BIAS 0.17903
V NASH-SUTCLIFFE EFFICIENCY 0.82179
V SIM vs OBS R₂ 0.91037
V SIM vs OBS SLOPE 0.89027
V SIM vs OBS INTERCEPT -0.021257

OPTIMIZATION RESULTS -----
SIM/OBS TOTAL VOLUME RATIO 1
MINIMIZED OBJECTIVE FUNCTION VALUE 5.7414e-006
C_{opt}: 0.5139

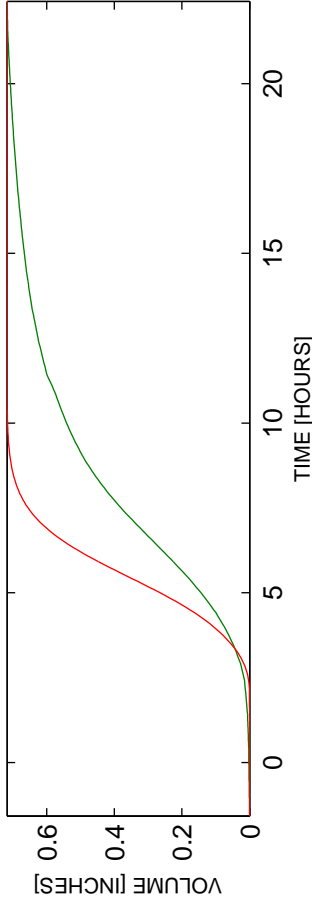
PRECIP LOSS FUNCTION: $P_{xs}(t) = P_{tot} - \text{init. abs}(c_1 P_{tot}) [0 \leq c_1 \leq 1]$



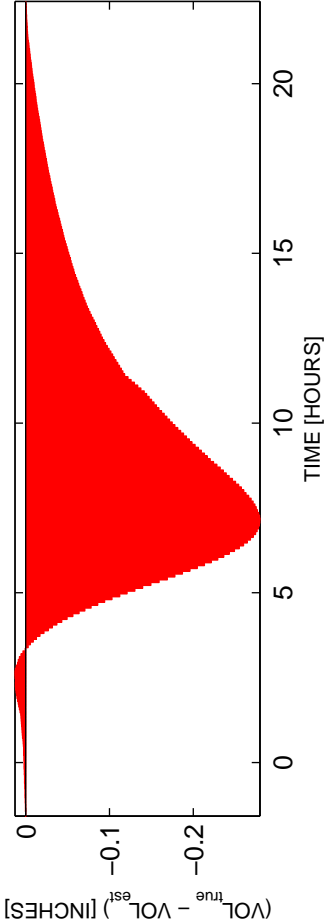
OBS AND MODELED RAINFALL: RAW DATA USED



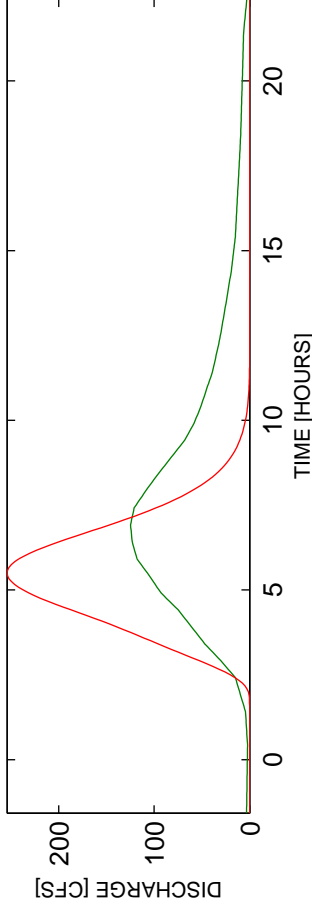
OBS AND ESTIMATED ACCUMULATED VOLUME



ACCUMULATED VOLUME RESIDUALS



OBS AND ESTIMATED DISCHARGES



DISCHARGE RESIDUALS

