

RUN #2

STAD-DATE: stal1111111_1969_0214
DATA DIR: d:\jvlabel\SWAP\UNIT\precip_loss_optimization\towEB\BOTHEXAMPLE
AREA [mi^2] PRECIPITATION 1.33

TOTAL RAIN VOLUME [inches] 1.45
EXCESS RAIN VOLUME [inches] 1.0798
PERCENT RAIN VOLUME LOSS 25.5286

DISCHARGE

MEAN OBS Q [CFS] 37.44
MEAN SIM Q [CFS] 38.3975
RMS Q RESIDUALS [CFS] 29.1256
Q RELATIVE BIAS 0.025574
Q NASH-SUTCLIFFE EFFICIENCY 0.78002
Q SIM vs OBS R² 0.92405
Q SIM vs OBS SLOPE 0.71712
Q SIM vs OBS INTERCEPT 9.9045

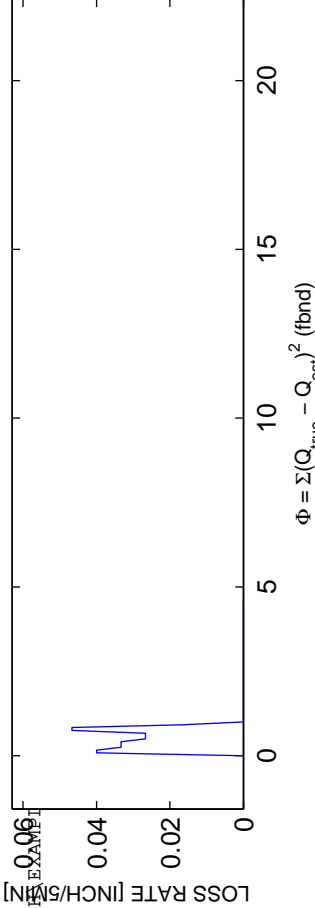
VOLUME

MEAN OBS V [CFS] 0.8062
MEAN SIM V [CFS] 0.84877
RMS V RESIDUALS [CFS] 0.066601
V RELATIVE BIAS 0.052809
V NASH-SUTCLIFFE EFFICIENCY 0.96796
V SIM vs OBS R² 0.98839
V SIM vs OBS SLOPE 0.92066
V SIM vs OBS INTERCEPT 0.024766

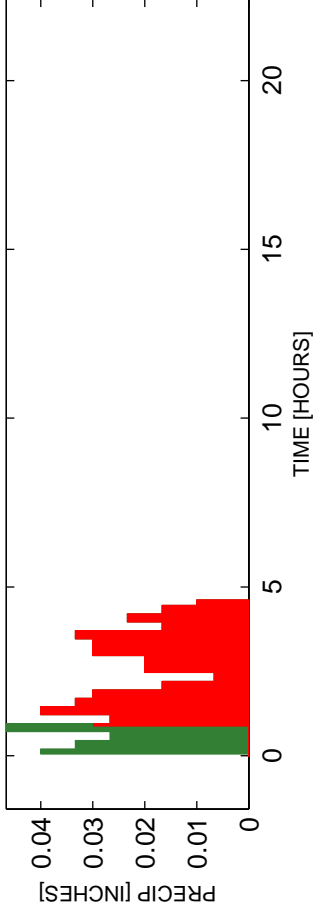
OPTIMIZATION RESULTS

SIM/OBS TOTAL VOLUME RATIO 1.025
MINIMIZED OBJECTIVE FUNCTION VALUE 245159.1209
C_{opt}: 0.37017

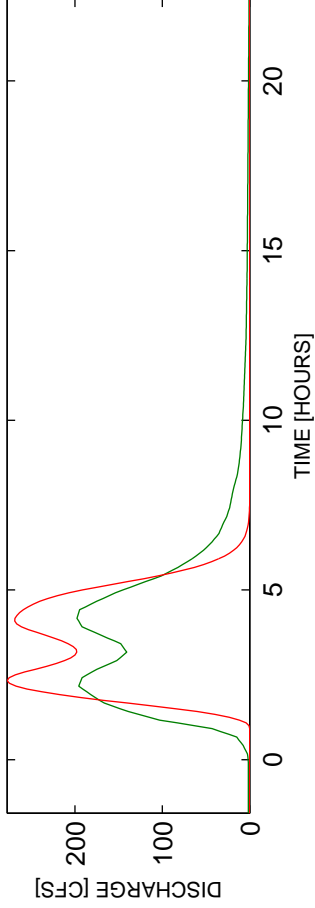
PRECIP LOSS FUNCTION: $P_{xs}(t) = P_{tot} - \text{init.abs}(c_1 P_{tot}) [0 < c_1 \leq 1]$



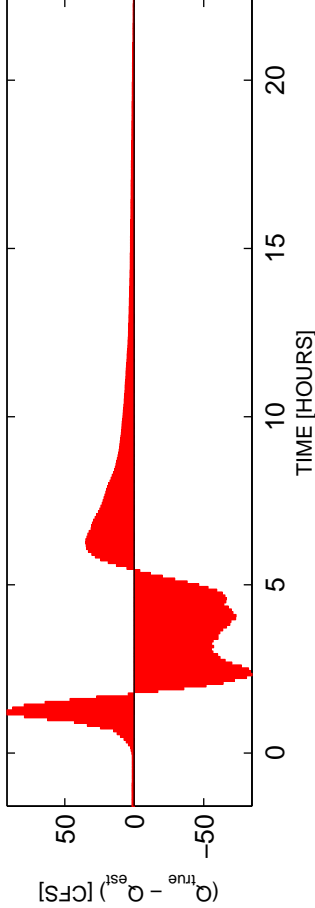
OBS AND MODELED RAINFALL: RAW DATA USED



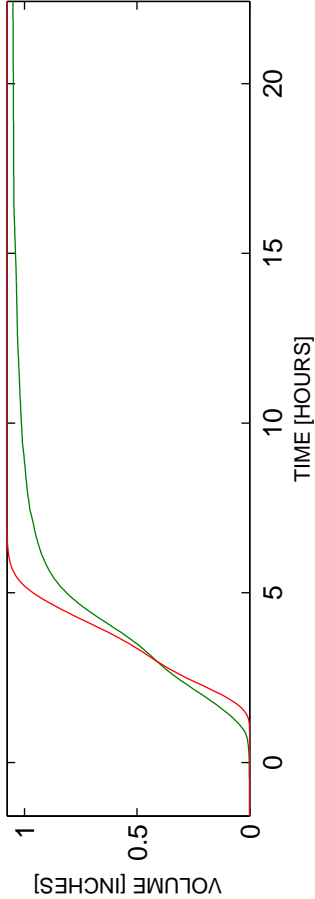
OBS AND ESTIMATED DISCHARGES



DISCHARGE RESIDUALS



OBS AND ESTIMATED ACCUMULATED VOLUME



ACCUMULATED VOLUME RESIDUALS

