

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] 1.041
PERCENT RAIN VOLUME LOSS 28.2052

DISCHARGE

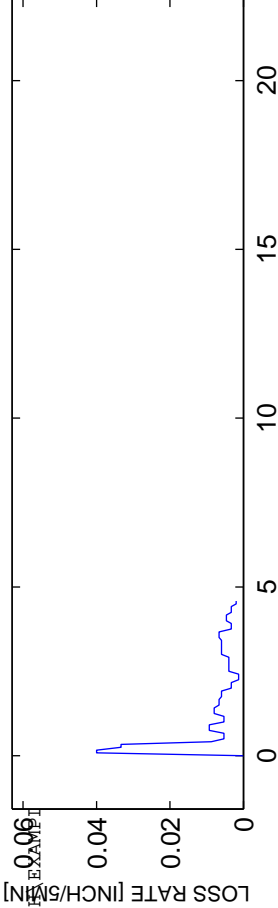
MEAN OBS Q [CFS] 37.44
MEAN SIM Q [CFS] 37.0174
RMS Q RESIDUALS [CFS] 19.0979
Q RELATIVE BIAS -0.011286
Q NASH-SUTCLIFFE EFFICIENCY 0.90542
Q SIM vs OBS R₂ 0.96384
Q SIM vs OBS SLOPE 0.80251
Q SIM vs OBS INTERCEPT 7.7333

VOLUME

MEAN OBS V [CFS] 0.8062
MEAN SIM V [CFS] 0.83228
RMS V RESIDUALS [CFS] 0.051908
V RELATIVE BIAS 0.032357
V NASH-SUTCLIFFE EFFICIENCY 0.98054
V SIM vs OBS R₂ 0.98549
V SIM vs OBS SLOPE 0.9938
V SIM vs OBS INTERCEPT -0.020923

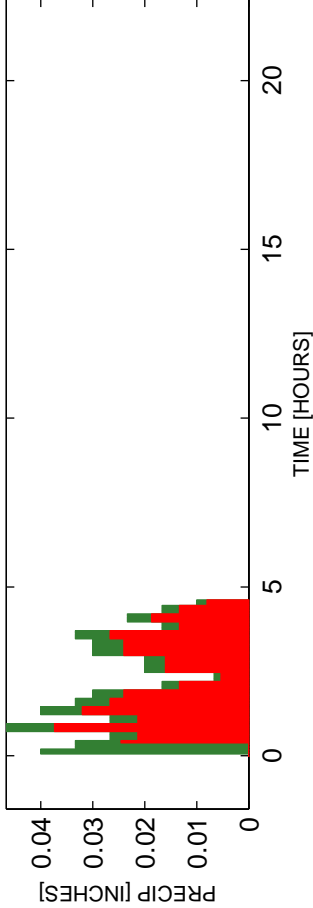
OPTIMIZATION RESULTS -----
SIM/OBS TOTAL VOLUME RATIO 0.98819
MINIMIZED OBJECTIVE FUNCTION VALUE 105407.406
C_{opt}: 0.14928 0.80034

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

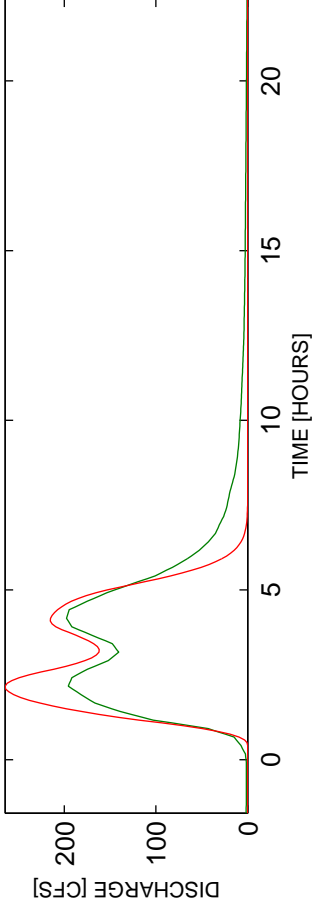


$$\Phi = \sum (Q_{true} - Q_{est})^2 \text{ (grid)}$$

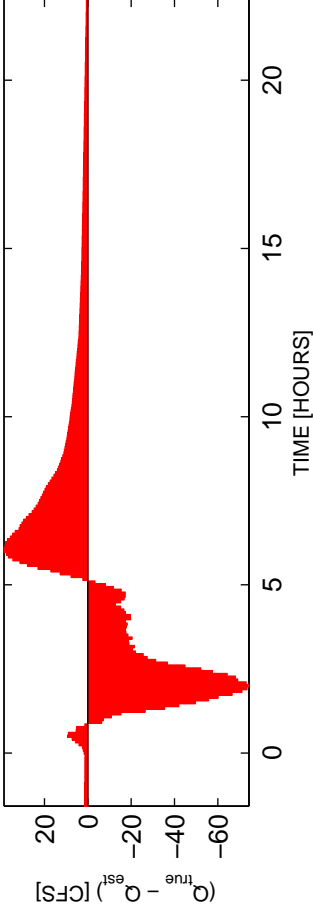
OBS AND MODELED RAINFALL: RAW DATA USED



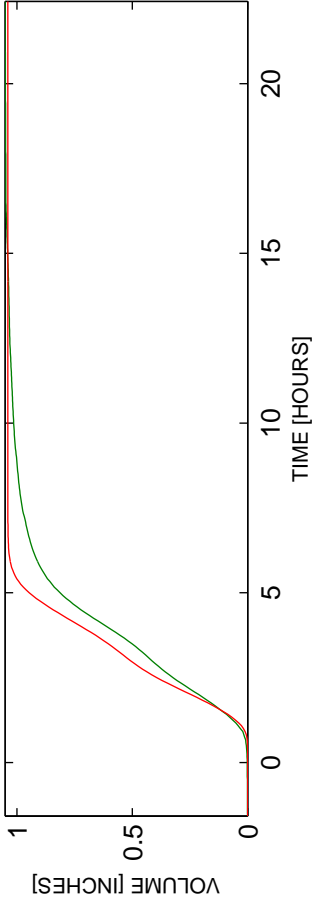
OBS AND ESTIMATED DISCHARGES



DISCHARGE RESIDUALS



OBS AND ESTIMATED ACCUMULATED VOLUME



ACCUMULATED VOLUME RESIDUALS

