

RUN #4

STAD-DATE: sta22222222_1969_0214
DATA DIR: d:\jvlabel\SWAP\UNIT\precip_loss_optimization\towEB\BOTHEXAMPLE
AREA [mi²] PRECIPITATION 1.94

TOTAL RAIN VOLUME [inches] 1.2333
EXCESS RAIN VOLUME [inches] 0.3688
PERCENT RAIN VOLUME LOSS 70.0973

DISCHARGE

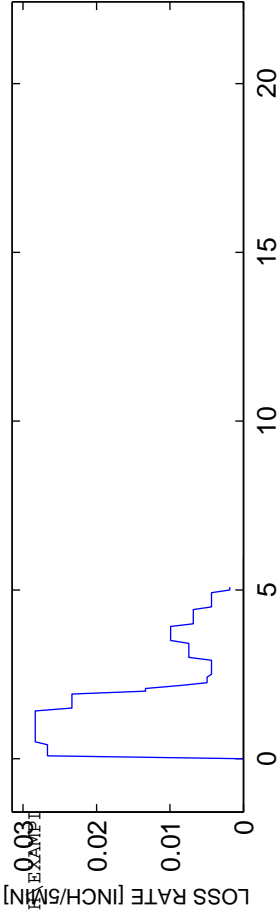
MEAN OBS Q [CFS] 37.3791
MEAN SIM Q [CFS] 19.1202
RMS Q RESIDUALS [CFS] 30.3791
Q RELATIVE BIAS -0.48848
Q NASH-SUTCLIFFE EFFICIENCY 0.38175
Q SIM vs OBS R² 0.65607
Q SIM vs OBS SLOPE 0.782
Q SIM vs OBS INTERCEPT 22.427

VOLUME

MEAN OBS V [CFS] 0.42808
MEAN SIM V [CFS] 0.25379
RMS V RESIDUALS [CFS] 0.22105
V RELATIVE BIAS -0.40714
V NASH-SUTCLIFFE EFFICIENCY 0.37804
V SIM vs OBS R² 0.92302
V SIM vs OBS SLOPE 1.7071
V SIM vs OBS INTERCEPT -0.0051592

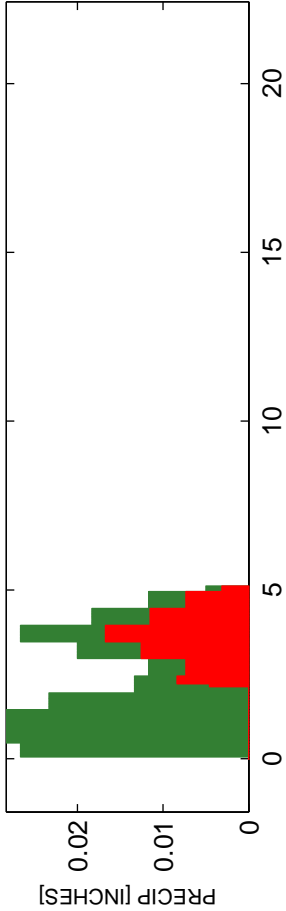
OPTIMIZATION RESULTS -----
SIM/OBS TOTAL VOLUME RATIO 0.51263
MINIMIZED OBJECTIVE FUNCTION VALUE 266715.2548
C_{opt} : 0.64603 0.62796

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

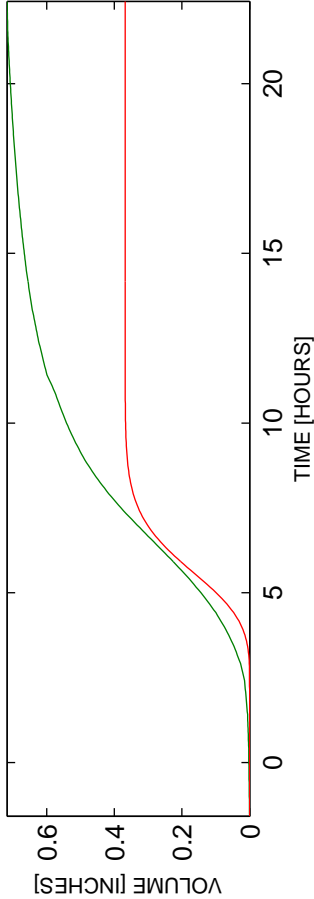


$$\Phi = \Sigma(Q_{true} - Q_{est})^2 \text{ (fbnd)}$$

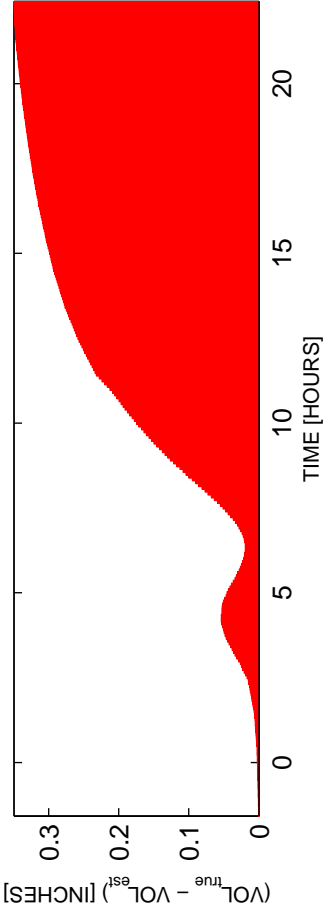
OBS AND MODELED RAINFALL: RAW DATA USED



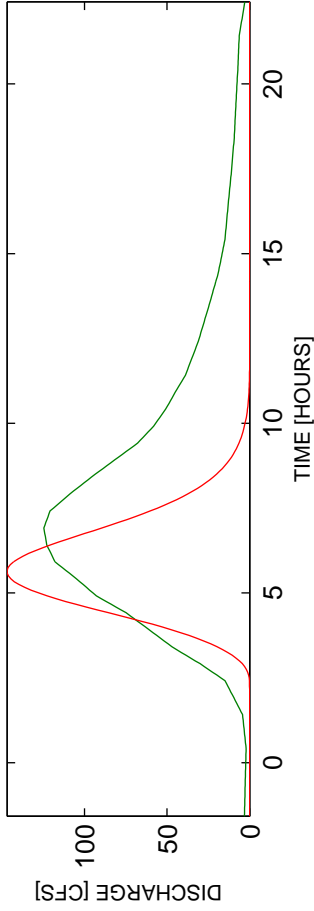
OBS AND ESTIMATED ACCUMULATED VOLUME



ACCUMULATED VOLUME RESIDUALS



OBS AND ESTIMATED DISCHARGES



DISCHARGE RESIDUALS

