

RUN #3

STAD-DATE: sta22222222_1968_0709
DATA DIR: d:\jvlabel\SWAP\UNIT\precip_loss_optimization\towEB\BOTB\EXAMP1
AREA [mi^2] PRECIPITATION 1.94

TOTAL RAIN VOLUME [inches] 6.2667
EXCESS RAIN VOLUME [inches] 3.2479
PERCENT RAIN VOLUME LOSS 48.1723

DISCHARGE

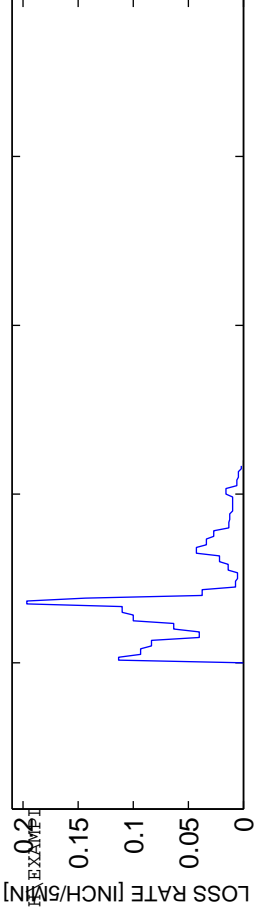
MEAN OBS Q [CFS] 170.2986
MEAN SIM Q [CFS] 168.3844
RMS Q RESIDUALS [CFS] 103.3392
Q RELATIVE BIAS -0.01124
Q NASH-SUTCLIFFE EFFICIENCY 0.84791
Q SIM vs OBS R^2 0.92438
Q SIM vs OBS SLOPE 0.77669
Q SIM vs OBS INTERCEPT 39.5157

VOLUME

MEAN OBS V [CFS] 1.7867
MEAN SIM V [CFS] 1.8782
RMS V RESIDUALS [CFS] 0.18732
V RELATIVE BIAS 0.051192
V NASH-SUTCLIFFE EFFICIENCY 0.98336
V SIM vs OBS R^2 0.98816
V SIM vs OBS SLOPE 0.97177
V SIM vs OBS INTERCEPT -0.038445

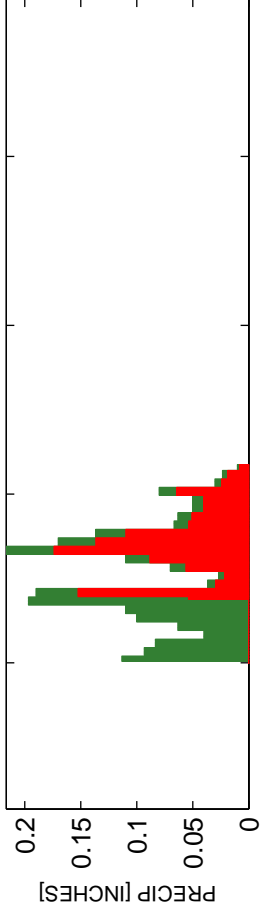
OPTIMIZATION RESULTS -----
SIM/OBS TOTAL VOLUME RATIO 0.98821
MINIMIZED OBJECTIVE FUNCTION VALUE 3086226.1186
C_opt : 2.2201 0.80262

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

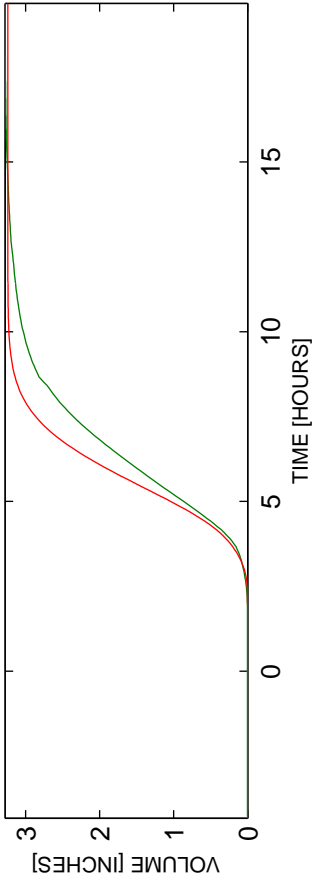


$$\Phi = \sum (Q_{true} - Q_{est})^2 \text{ (grid)}$$

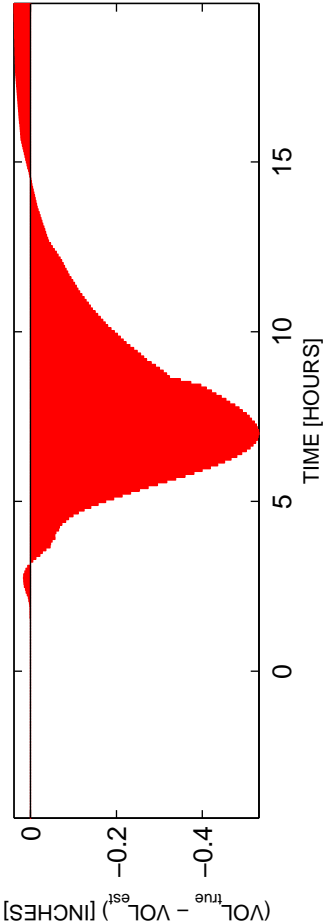
OBS AND MODELED RAINFALL: RAW DATA USED



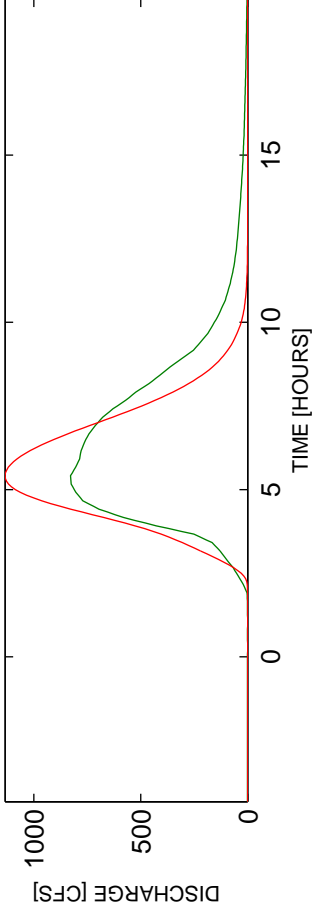
OBS AND ESTIMATED ACCUMULATED VOLUME



ACCUMULATED VOLUME RESIDUALS



OBS AND ESTIMATED DISCHARGES



DISCHARGE RESIDUALS

