

RUN #3

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

TOTAL RAIN VOLUME [inches] 6.2667
EXCESS RAIN VOLUME [inches] 2.4775
PERCENT RAIN VOLUME LOSS 60.4647

DISCHARGE

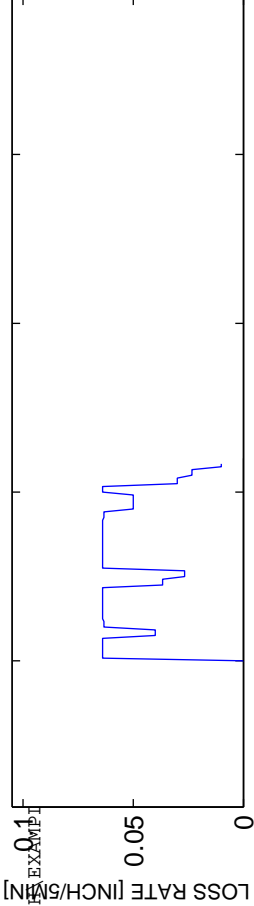
MEAN OBS Q [CFS] 170.2986
MEAN SIM Q [CFS] 128.4472
RMS Q RESIDUALS [CFS] 170.5681
Q RELATIVE BIAS -0.24575
Q NASH-SUTCLIFFE EFFICIENCY 0.58566
Q SIM vs OBS R₂ 0.6215
Q SIM vs OBS SLOPE 0.88307
Q SIM vs OBS INTERCEPT 56.8706

VOLUME

MEAN OBS V [CFS] 1.7867
MEAN SIM V [CFS] 1.5355
RMS V RESIDUALS [CFS] 0.52793
V RELATIVE BIAS -0.14061
V NASH-SUTCLIFFE EFFICIENCY 0.8678
V SIM vs OBS R₂ 0.94261
V SIM vs OBS SLOPE 1.2791
V SIM vs OBS INTERCEPT -0.17729

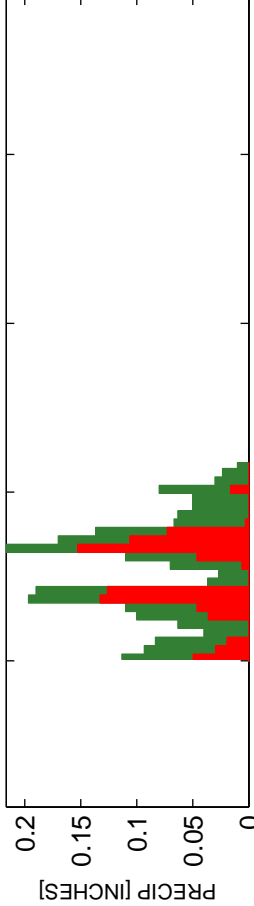
OPTIMIZATION RESULTS -----
SIM/OBS TOTAL VOLUME RATIO 0.75383
MINIMIZED OBJECTIVE FUNCTION VALUE 8408014.8545
C_{opt}: 0.063881

PRECIP LOSS FUNCTION: $L(t) = c_1$

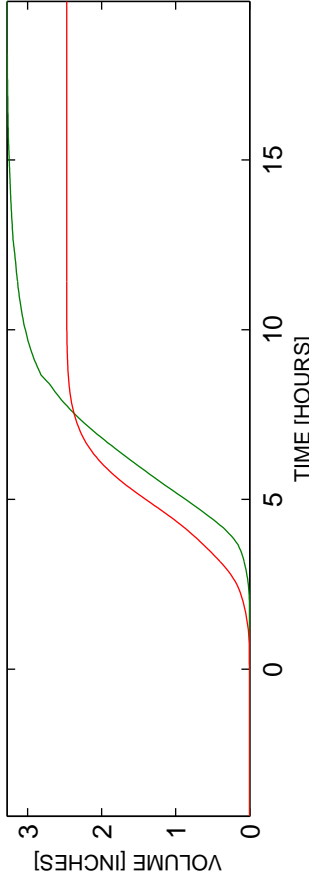


$$\Phi = \sum (Q_{\text{true}} - Q_{\text{est}})^2 \text{ (fbnd)}$$

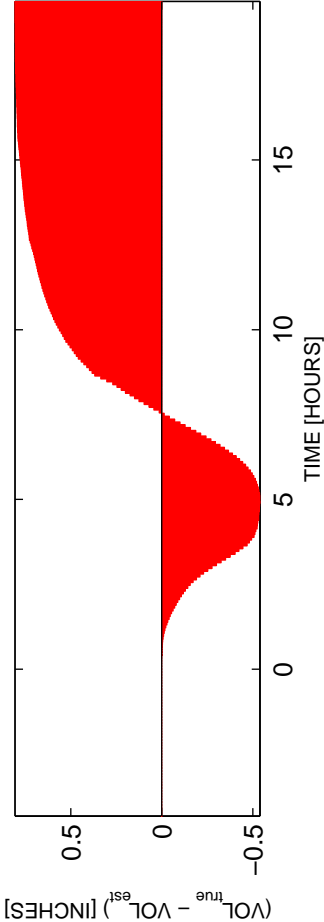
OBS AND MODELED RAINFALL: RAW DATA USED



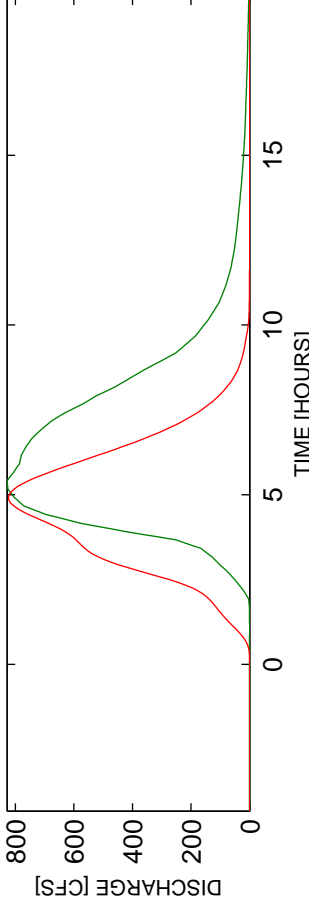
OBS AND ESTIMATED ACCUMULATED VOLUME



ACCUMULATED VOLUME RESIDUALS



OBS AND ESTIMATED DISCHARGES



DISCHARGE RESIDUALS

