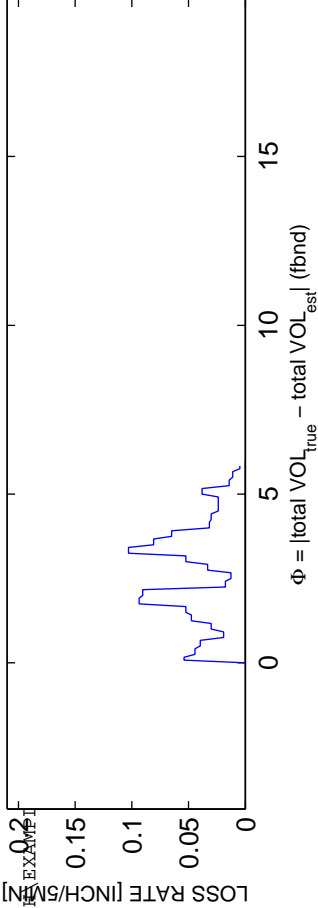


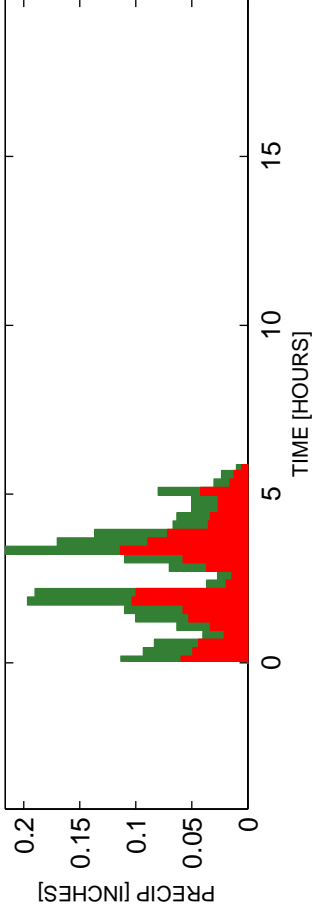
RUN #3

STAD-DATE: sta22222222\_1968\_0709  
DATA DIR: d:\jvlabel\SWAP\UNIT\precip\_loss\_optimization\towEB\BOTEN\EXAMP1  
AREA [mi²] ..... PRECIPITATION ..... 1.94  
-----  
TOTAL RAIN VOLUME [inches] ..... 6.2667  
EXCESS RAIN VOLUME [inches] ..... 3.2866  
PERCENT RAIN VOLUME LOSS ..... 47.554  
-----  
DISCHARGE  
-----  
MEAN OBS Q [CFS] ..... 170.2986  
MEAN SIM Q [CFS] ..... 170.3931  
RMS Q RESIDUALS [CFS] ..... 162.0433  
Q RELATIVE BIAS ..... 0.00055467  
Q NASH-SUTCLIFFE EFFICIENCY ..... 0.62604  
Q SIM vs OBS R² ..... 0.68227  
Q SIM vs OBS SLOPE ..... 0.77696  
Q SIM vs OBS INTERCEPT ..... 37.9095  
-----  
VOLUME  
-----  
MEAN OBS V [CFS] ..... 1.7867  
MEAN SIM V [CFS] ..... 2.0168  
RMS V RESIDUALS [CFS] ..... 0.38264  
V RELATIVE BIAS ..... 0.12876  
V NASH-SUTCLIFFE EFFICIENCY ..... 0.93055  
V SIM vs OBS R² ..... 0.95599  
V SIM vs OBS SLOPE ..... 0.98159  
V SIM vs OBS INTERCEPT ..... -0.19293  
-----  
OPTIMIZATION RESULTS -----  
SIM/OBS TOTAL VOLUME RATIO ..... 1  
MINIMIZED OBJECTIVE FUNCTION VALUE ..... 1.4853e-006  
C<sub>opt</sub>: 0.52446

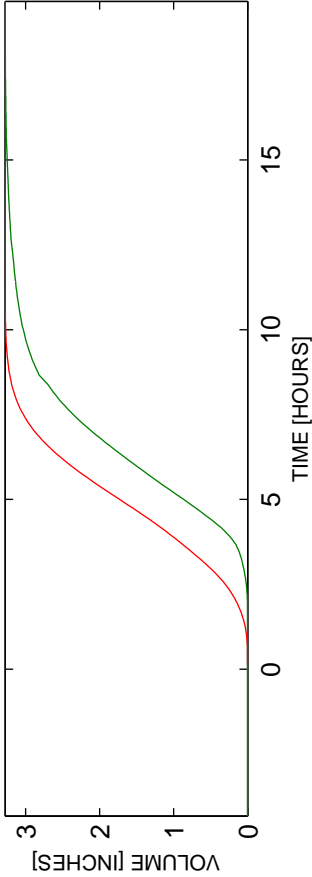
PRECIP LOSS FUNCTION:  $P_{xs}(t) = c_1 P_{tot}(t) [0 < c_1 \leq 1]$



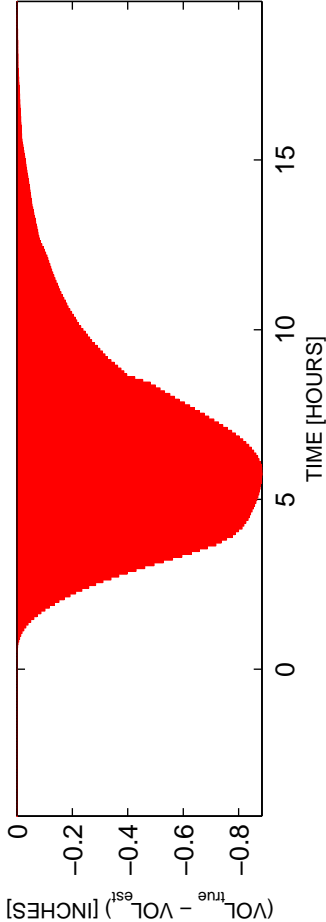
OBS AND MODELED RAINFALL: RAW DATA USED



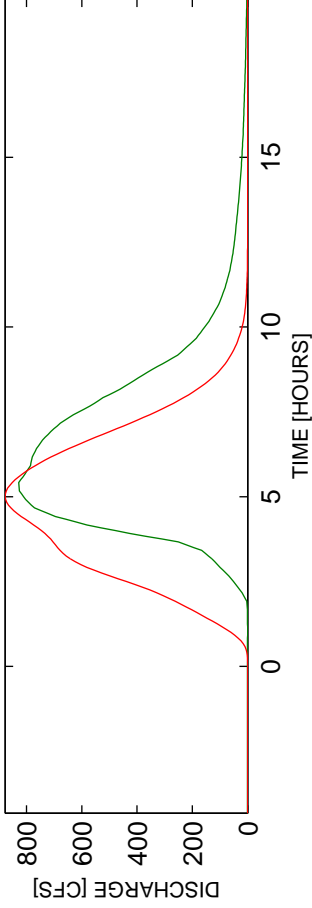
OBS AND ESTIMATED ACCUMULATED VOLUME



ACCUMULATED VOLUME RESIDUALS



OBS AND ESTIMATED DISCHARGES



DISCHARGE RESIDUALS

