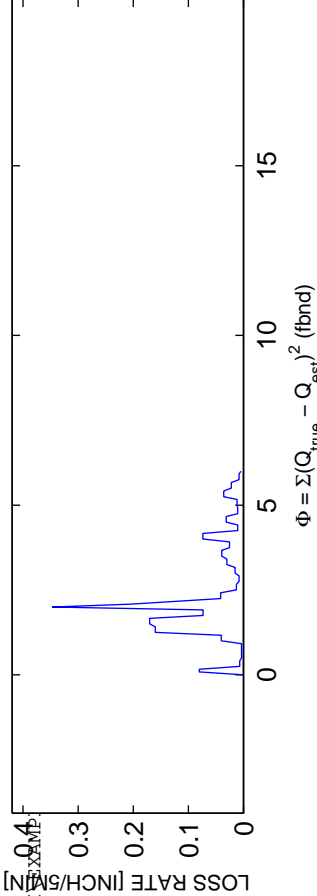


RUN #1

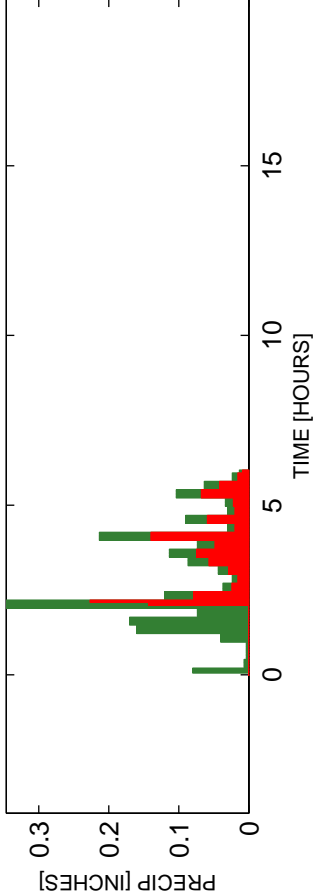
STAD-DATE: stal1111111\_1968\_0709  
DATA DIR: d:\jvlabel\SWAP\UNIT\precip\_loss\_optimization\towEB\BOTH\XAMP  
AREA [mi²] ..... PRECIPITATION ..... 1.33  
-----  
TOTAL RAIN VOLUME [inches] ..... 5.8333  
EXCESS RAIN VOLUME [inches] ..... 2.505  
PERCENT RAIN VOLUME LOSS ..... 57.0564  
-----  
DISCHARGE  
-----  
MEAN OBS Q [CFS] ..... 112.4013  
MEAN SIM Q [CFS] ..... 89.0759  
RMS Q RESIDUALS [CFS] ..... 63.6044  
Q RELATIVE BIAS ..... -0.20752  
Q NASH-SUTCLIFFE EFFICIENCY ..... 0.88327  
Q SIM vs OBS R² ..... 0.9025  
Q SIM vs OBS SLOPE ..... 0.94116  
Q SIM vs OBS INTERCEPT ..... 28.5664  
-----  
VOLUME  
-----  
MEAN OBS V [CFS] ..... 1.9698  
MEAN SIM V [CFS] ..... 1.5919  
RMS V RESIDUALS [CFS] ..... 0.46511  
V RELATIVE BIAS ..... -0.19183  
V NASH-SUTCLIFFE EFFICIENCY ..... 0.88564  
V SIM vs OBS R² ..... 0.9934  
V SIM vs OBS SLOPE ..... 1.2199  
V SIM vs OBS INTERCEPT ..... 0.027771  
-----  
OPTIMIZATION RESULTS -----  
SIM/OBS TOTAL VOLUME RATIO ..... 0.79246  
MINIMIZED OBJECTIVE FUNCTION VALUE ..... 1169153.7294  
C<sub>opt</sub>: 2.0052 0.65437

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

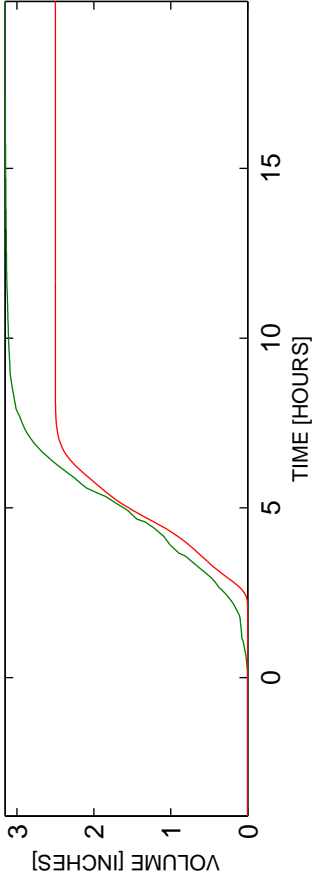


$$\Phi = \Sigma(Q_{true} - Q_{est})^2 \text{ (fbnd)}$$

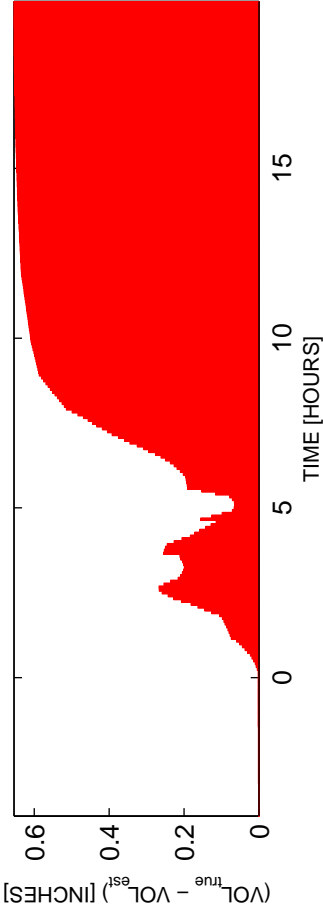
OBS AND MODELED RAINFALL: RAW DATA USED



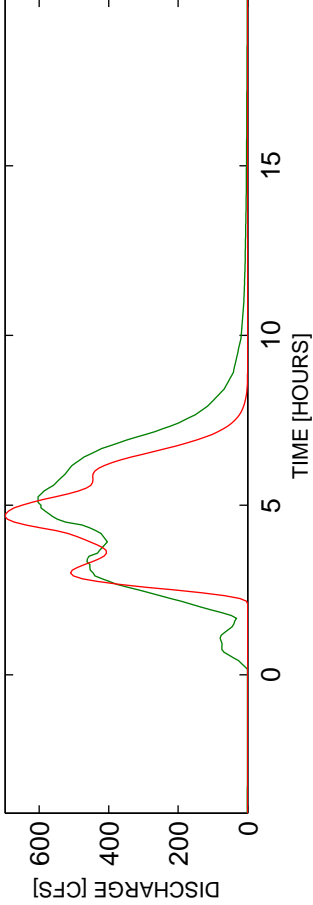
OBS AND ESTIMATED ACCUMULATED VOLUME



ACCUMULATED VOLUME RESIDUALS



OBS AND ESTIMATED DISCHARGES



DISCHARGE RESIDUALS

