

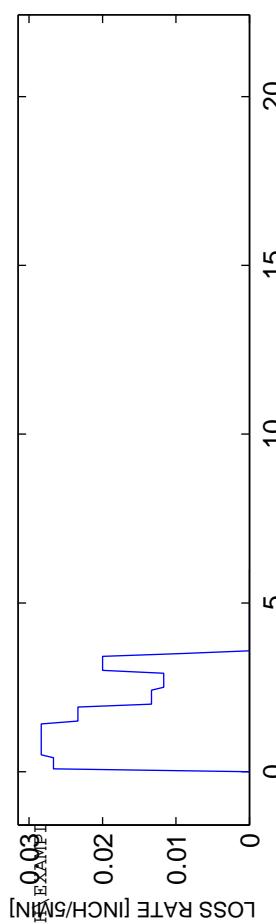
RUN #4

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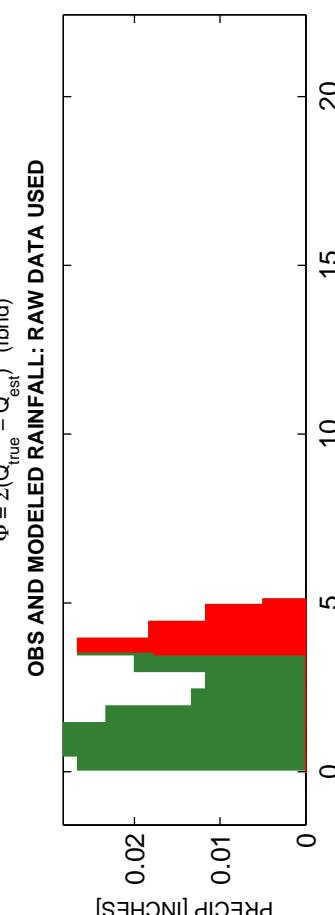
STATION-DATE: sta22222222_1969_0214
DATA DIR: d:\jvrtabel\SWAP\UNIT\precip_loss_optimization\toweb\BOTW\EXAMPLE
AREA [mi2] ..... PRECIPITATION ..... 1.94
----- TOTAL RAIN VOLUME [inches] ..... 1.2333
EXCESS RAIN VOLUME [inches] ..... 0.34105
PERCENT RAIN VOLUME LOSS ..... 72.3472
----- DISCHARGE
MEAN OBS Q [CFS] ..... 37.3791
MEAN SIM Q [CFS] ..... 17.6817
RMS Q RESIDUALS [CFS] ..... 30.3276
Q RELATIVE BIAS ..... -0.52696
Q NASH-SUTCLIFFE EFFICIENCY ..... 0.38384
Q SIM vs OBS R2 ..... 0.68957
Q SIM vs OBS SLOPE ..... 0.79507
Q SIM vs OBS INTERCEPT ..... 23.3209
----- VOLUME
MEAN OBS V [CFS] ..... 0.42808
MEAN SIM V [CFS] ..... 0.2275
RMS V RESIDUALS [CFS] ..... 0.24443
V RELATIVE BIAS ..... -0.46856
V NASH-SUTCLIFFE EFFICIENCY ..... 0.23953
V SIM vs OBS R2 ..... 0.93934
V SIM vs OBS SLOPE ..... 1.8085
V SIM vs OBS INTERCEPT ..... 0.016658
----- OPTIMIZATION RESULTS
SIM/OBS TOTAL VOLUME RATIO ..... 0.47406
MINIMIZED OBJECTIVE FUNCTION VALUE ..... 265811.2182
Copt: 0.89228

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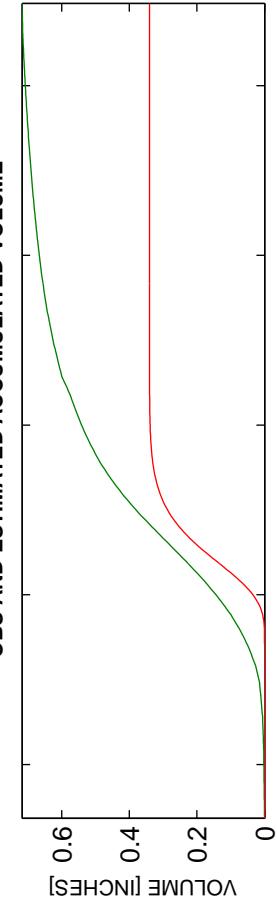
PRECIP LOSS FUNCTION: $P_{xs}(t) = P_{tot} - \text{init.abs}(c_1 P_{tot}) [0 <= c_1 <= 1]$



OBS AND MODELED RAINFALL: RAW DATA USED

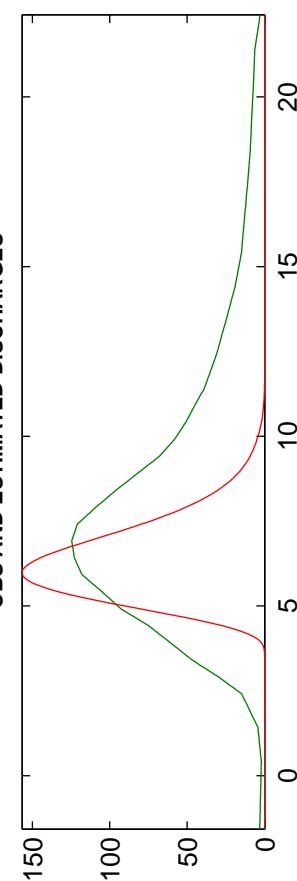


OBS AND ESTIMATED ACCUMULATED VOLUME

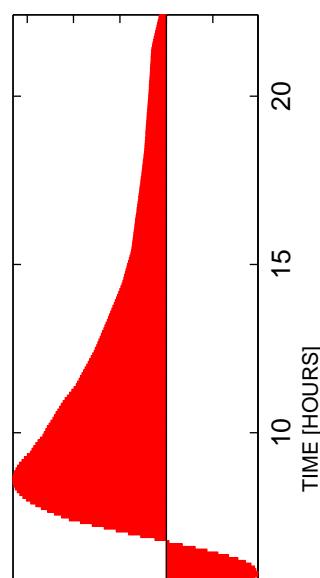


OBS AND ESTIMATED ACCUMULATED VOLUME

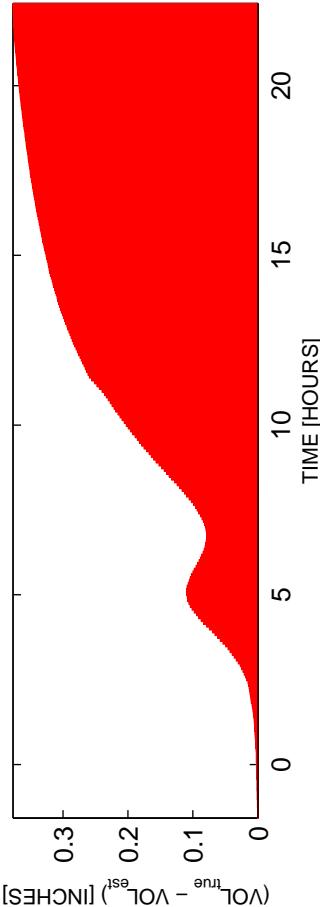
OBS AND ESTIMATED DISCHARGES



OBS AND ESTIMATED DISCHARGES



DISCHARGE RESIDUALS



ACCUMULATED VOLUME RESIDUALS