**RUN #4**

STAID-DATE: sta22222222_1969_0214
DATA DIR: d:\jvrabel\SWAP\UNIT\precip_loss_optimization\toWEB\BOTHEXAMPLE
AREA [$mi^2$] ..... 1.94

---------- PRECIPITATION ----------

TOTAL RAIN VOLUME [inches] ..... 1.2333
EXCESS RAIN VOLUME [inches] ..... 0.3756
PECENT RAIN VOLUME LOSS ..... 69.5456

---------- DISCHARGE ----------

MEAN OBS Q [CFS] ..... 37.3791
MEAN SIM Q [CFS] ..... 19.473
RMS Q RESIDUALS [CFS] ..... 38.5228
Q RELATIVE BIAS ..... -0.47904
Q NASH-SUTCLIFFE EFFICIENCY ..... 0.0058487
Q SIM vs OBS $R^2$ ..... 0.29997
Q SIM vs OBS SLOPE ..... 0.66039
Q SIM vs OBS INTERCEPT ..... 24.5192

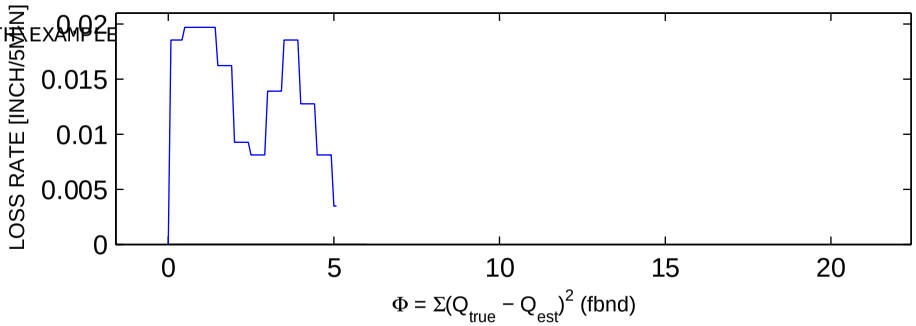
---------- VOLUME ----------

MEAN OBS V [CFS] ..... 0.42808
MEAN SIM V [CFS] ..... 0.27949
RMS V RESIDUALS [CFS] ..... 0.21712
V RELATIVE BIAS ..... -0.34711
V NASH-SUTCLIFFE EFFICIENCY ..... 0.39997
V SIM vs OBS $R^2$ ..... 0.84761
V SIM vs OBS SLOPE ..... 1.7965
V SIM vs OBS INTERCEPT ..... -0.074023

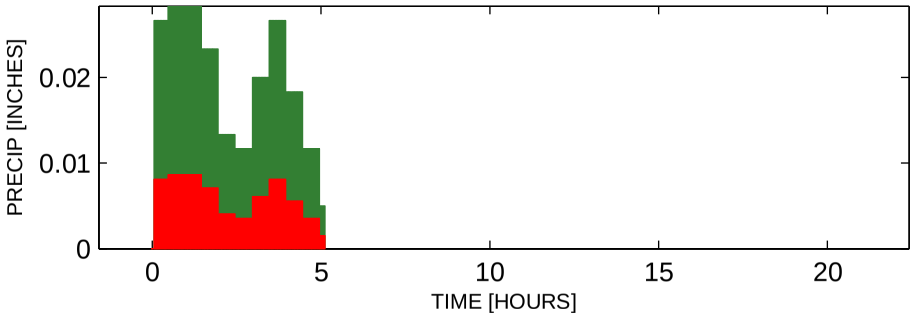
---------- OPTIMIZATION RESULTS ----------

SIM/OBS TOTAL VOLUME RATIO ..... 0.52209
MINIMIZED OBJECTIVE FUNCTION VALUE ..... 428878.3311
$C_{opt}$: 0.30454

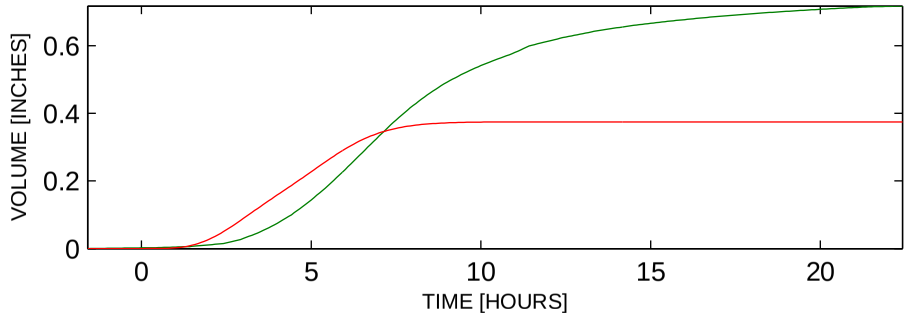
**PRECIP LOSS FUNCTION: $P_{xs}(t) = c_1 P_{tot}(t)$ [0<=$c_1$<= 1]**



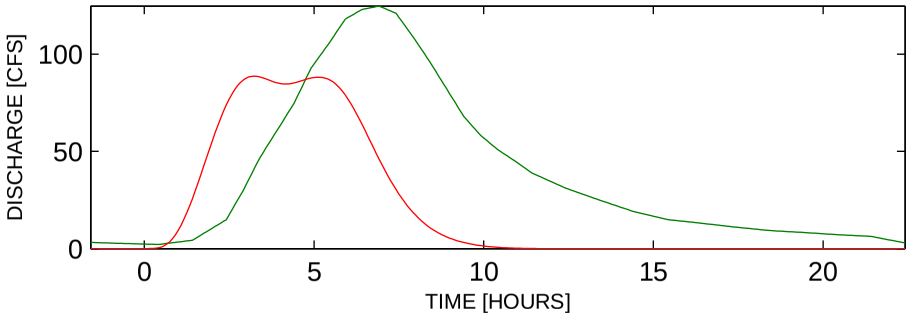

**OBS AND MODELED RAINFALL: RAW DATA USED**



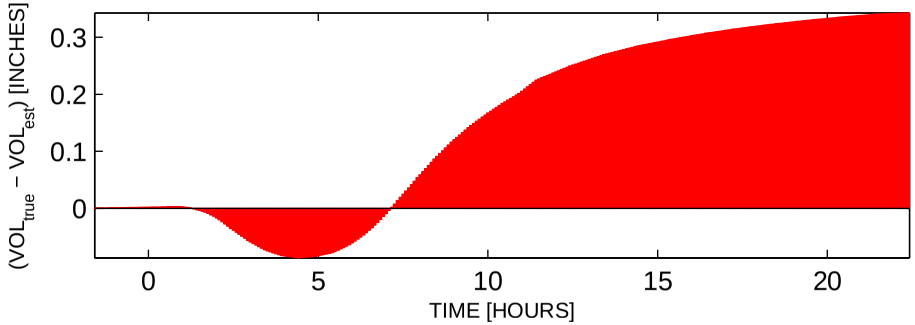

**OBS AND ESTIMATED ACCUMULATED VOLUME**




**OBS AND ESTIMATED DISCHARGES**




**ACCUMULATED VOLUME RESIDUALS**




**DISCHARGE RESIDUALS**