RUN #1

STAID-DATE: sta11111111_1968_0709
DATA DIR: d:\jvrabel\SWAP\UNIT\precip_loss_optimization\toWEB\BOTH_EXAMP
AREA [mi^2] 1.33

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

TOTAL RAIN VOLUME [inches] 5.8333
EXCESS RAIN VOLUME [inches] 2.0374
PECENT RAIN VOLUME LOSS 65.0733

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

MEAN OBS Q [CFS] 112.4013
MEAN SIM Q [CFS] 72.4468
RMS Q RESIDUALS [CFS] 127.6151
Q RELATIVE BIAS ..... -0.35546
Q NASH-SUTCLIFFE EFFICIENCY 0.53011
Q SIM vs OBS R^2 ..... 0.64386
Q SIM vs OBS SLOPE 0.75515
Q SIM vs OBS INTERCEPT 57.6932

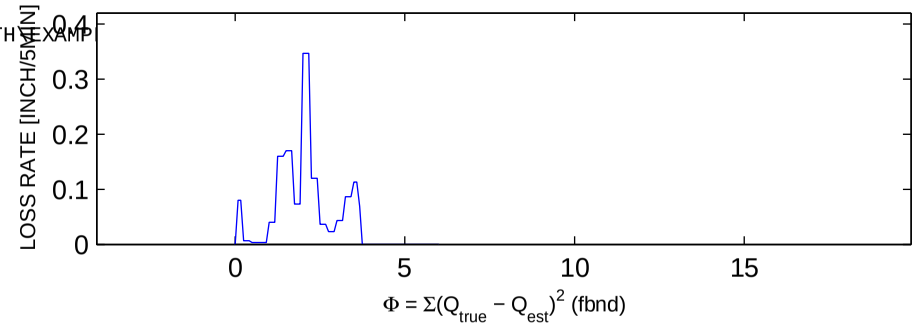
---------- VOLUME ----------

MEAN OBS V [CFS] 1.9698
MEAN SIM V [CFS] 1.2197
RMS V RESIDUALS [CFS] 0.88123
V RELATIVE BIAS ..... -0.38079
V NASH-SUTCLIFFE EFFICIENCY 0.58947
V SIM vs OBS R^2 ..... 0.97138
V SIM vs OBS SLOPE 1.4183
V SIM vs OBS INTERCEPT 0.23988

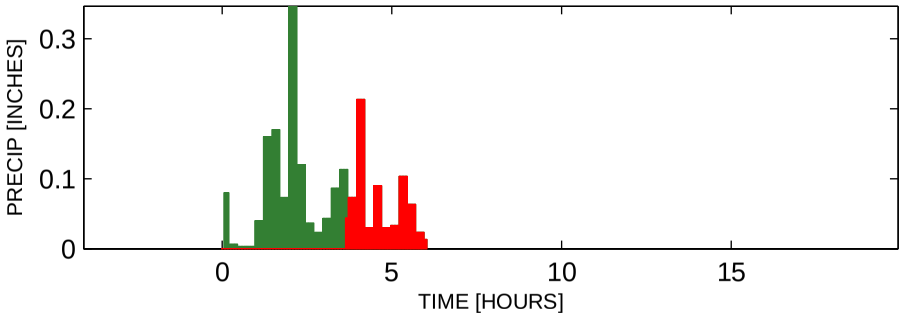
---------- OPTIMIZATION RESULTS ----------

SIM/OBS TOTAL VOLUME RATIO 0.64452
MINIMIZED OBJECTIVE FUNCTION VALUE 4706542.3916
C_{opt}: 3.7959

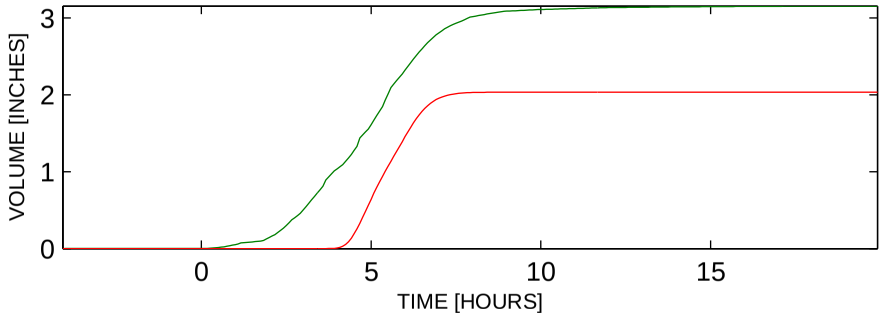
PRECIP LOSS FUNCTION: $P_{xs}(t) = P_{tot} - \text{init.abs}(c_1 P_{tot})$ [0<=c_1<= 1]



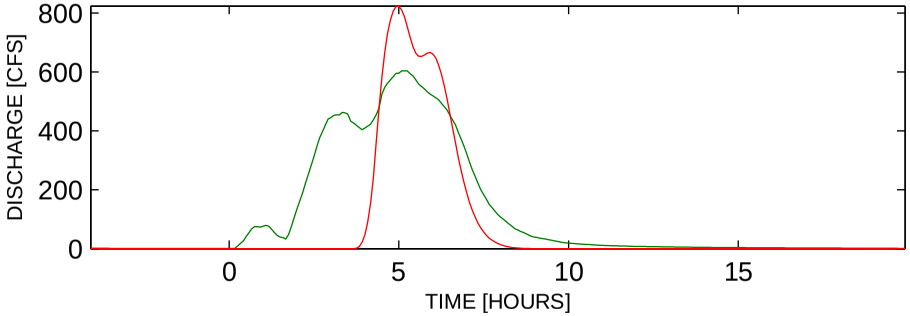
OBS AND MODELED RAINFALL: RAW DATA USED



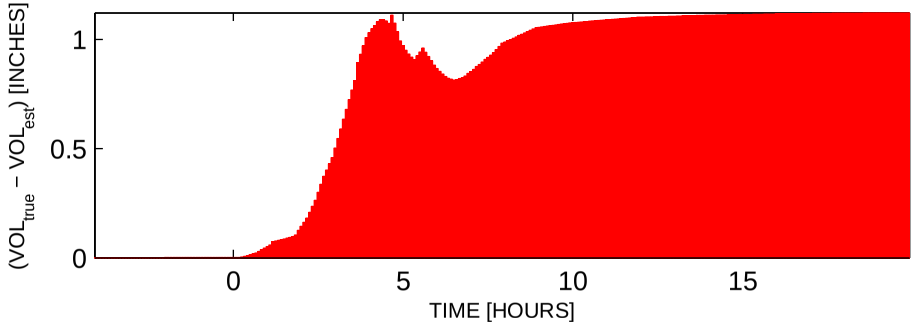
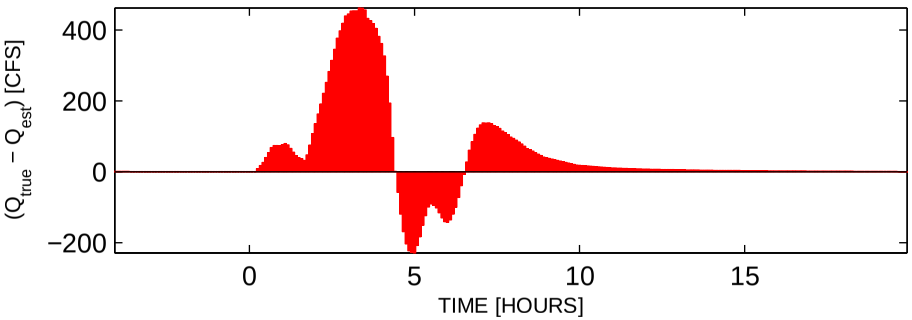
OBS AND ESTIMATED ACCUMULATED VOLUME



OBS AND ESTIMATED DISCHARGES



ACCUMULATED VOLUME RESIDUALS



DISCHARGE RESIDUALS