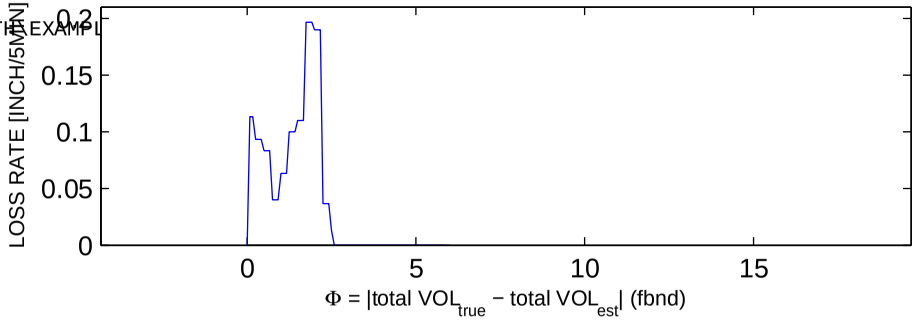
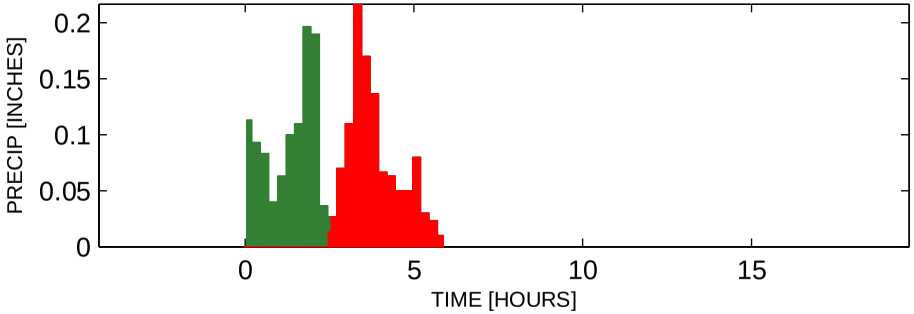
**RUN #3**

```
STAID-DATE: sta22222222_1968_0709
DATA DIR: d:\jvrabel\SWAP\UNIT\precip_loss_optimization\toWEB\BOTHEXAMPL
AREA [mi^2] ..................................... 1.94
--------------------- PRECIPITATION ----------------------
TOTAL RAIN VOLUME [inches] ..... 6.2667
EXCESS RAIN VOLUME [inches] .... 3.2866
PECENT RAIN VOLUME LOSS ........ 47.554
----------------------- DISCHARGE ------------------------
MEAN OBS Q [CFS] ............... 170.2986
MEAN SIM Q [CFS] ............... 170.393
RMS Q RESIDUALS [CFS] .......... 126.2066
Q RELATIVE BIAS ................ 0.00055396
Q NASH-SUTCLIFFE EFFICIENCY .... 0.77316
Q SIM vs OBS R^2 ............... 0.92001
Q SIM vs OBS SLOPE ............. 0.71453
Q SIM vs OBS INTERCEPT ......... 48.5478
------------------------ VOLUME -------------------------
MEAN OBS V [CFS] ............... 1.7867
MEAN SIM V [CFS] ............... 1.8565
RMS V RESIDUALS [CFS] .......... 0.16807
V RELATIVE BIAS ................ 0.039057
V NASH-SUTCLIFFE EFFICIENCY .... 0.9866
V SIM vs OBS R^2 ............... 0.9916
V SIM vs OBS SLOPE ............. 0.95052
V SIM vs OBS INTERCEPT ......... 0.022074
------------------ OPTIMIZATION RESULTS -------------------
SIM/OBS TOTAL VOLUME RATIO ..... 1
MINIMIZED OBJECTIVE FUNCTION VALUE ..... 1.6582e-006
C_opt: 2.9801
```

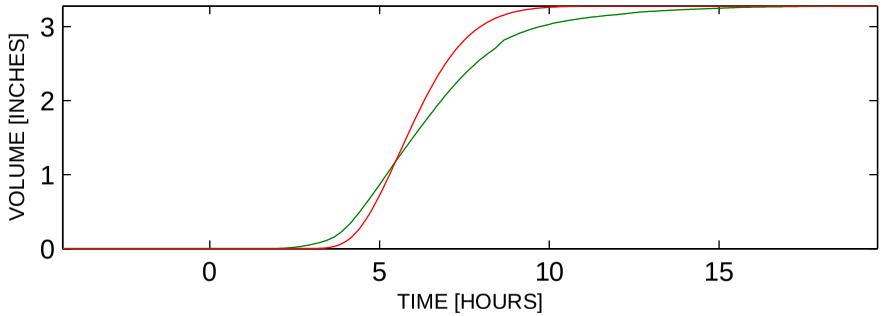
**PRECIP LOSS FUNCTION: $P_{xs}(t) = P_{tot} - \text{init.abs}(c_1 P_{tot})$ [$0 <= c_1 <= 1$]**



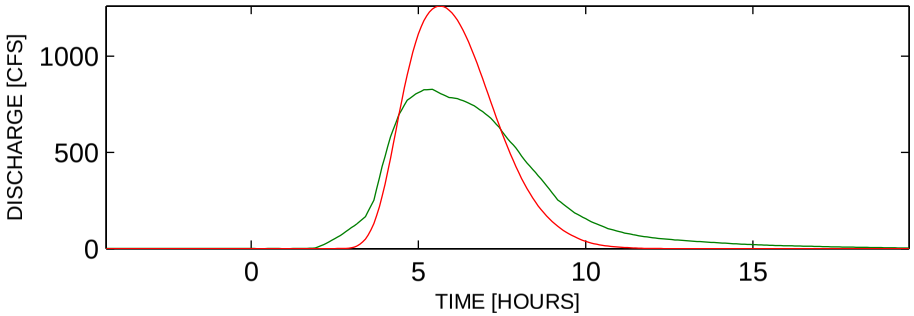

**OBS AND MODELED RAINFALL: RAW DATA USED**



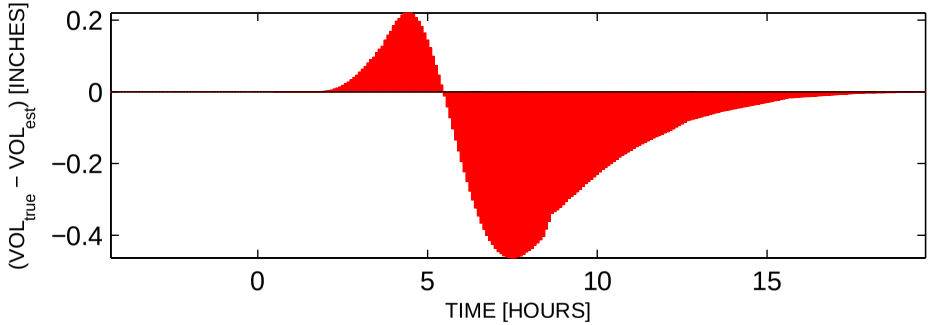

**OBS AND ESTIMATED ACCUMULATED VOLUME**

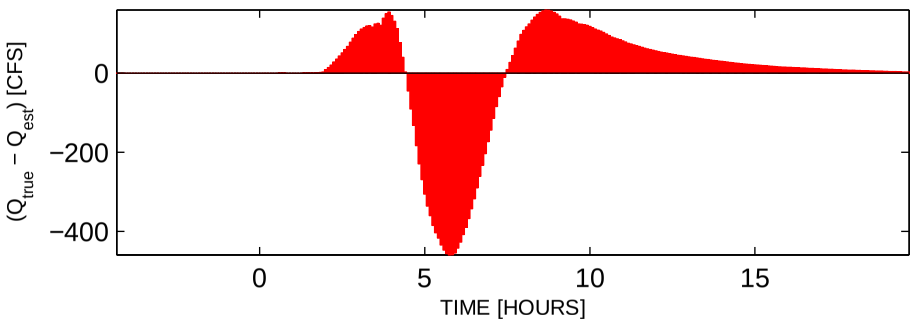



**OBS AND ESTIMATED DISCHARGES**




**ACCUMULATED VOLUME RESIDUALS**




**DISCHARGE RESIDUALS**