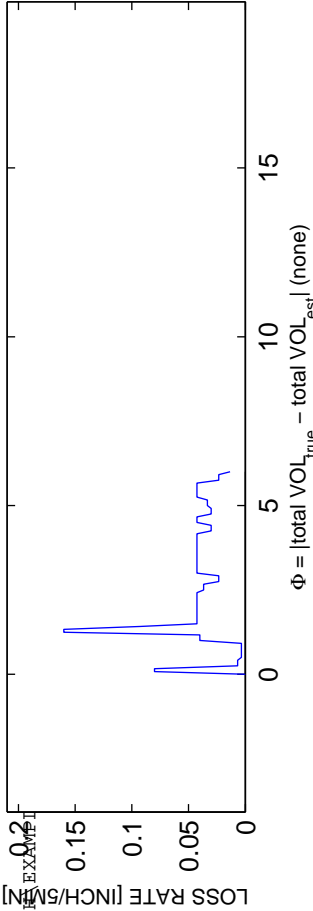


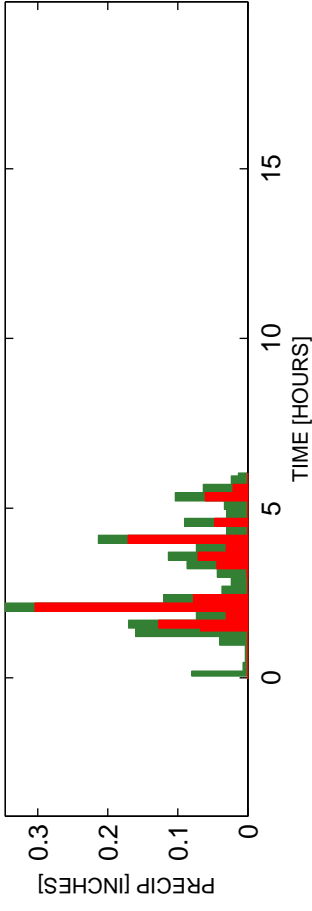
RUN #1

```
STAD-DATE: stal1111111_1968_0709
DATA DIR: d:\jvrael\SWAP\UNIT\precip_loss_optimization\towEB\BOTEN\EXAMP1
AREA [mi^2] ..... PRECIPITATION ..... 1.33
TOTAL RAIN VOLUME [inches] ..... 5.8333
EXCESS RAIN VOLUME [inches] ..... 3.0213
PERCENT RAIN VOLUME LOSS ..... 48.2059
----- DISCHARGE -----
MEAN OBS Q [CFS] ..... 112.4013
MEAN SIM Q [CFS] ..... 107.4341
RMS Q RESIDUALS [CFS] ..... 148.0583
Q RELATIVE BIAS ..... -0.044192
Q NASH-SUTCLIFFE EFFICIENCY ..... 0.36751
Q SIM vs OBS R^2 ..... 0.62027
Q SIM vs OBS SLOPE ..... 0.6107
Q SIM vs OBS INTERCEPT ..... 46.791
----- VOLUME -----
MEAN OBS V [CFS] ..... 1.9698
MEAN SIM V [CFS] ..... 2.0159
RMS V RESIDUALS [CFS] ..... 0.26912
V RELATIVE BIAS ..... 0.023421
V NASH-SUTCLIFFE EFFICIENCY ..... 0.96171
V SIM vs OBS R^2 ..... 0.9634
V SIM vs OBS SLOPE ..... 1.0248
V SIM vs OBS INTERCEPT ..... -0.09617
----- OPTIMIZATION RESULTS -----
SIM/OBS TOTAL VOLUME RATIO ..... 0.95579
MINIMIZED OBJECTIVE FUNCTION VALUE ..... NaN
C_opt : 0.69 0.042667
```

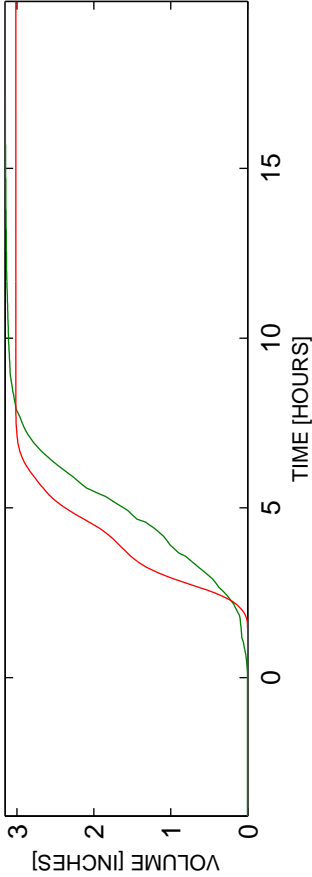
PRECIP LOSS FUNCTION:  $P_{xs}(t) = \text{init.abs. then const.loss}$



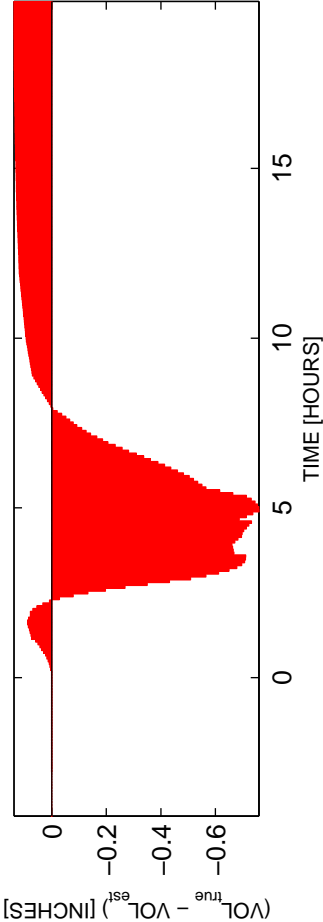
OBS AND MODELED RAINFALL: RAW DATA USED



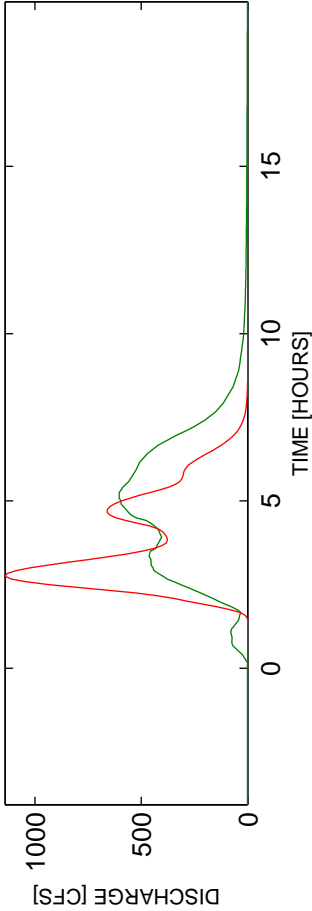
OBS AND ESTIMATED ACCUMULATED VOLUME



$(VOL_{\text{true}} - VOL_{\text{est}})$  [INCHES]



OBS AND ESTIMATED DISCHARGES



DISCHARGE RESIDUALS

