

### RUN #3

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STATION-DATE: sta22222222_1968_0709
DATA DIR: d:\jvrtabel\SWAP\UNIT\precip_loss_optimization\toweb\BOTM\EXAMPLE
AREA [mi2] ..... PRECIPITATION ..... 1.94
----- TOTAL RAIN VOLUME [inches] ..... 6.2667
EXCESS RAIN VOLUME [inches] ..... 2.6158
PERCENT RAIN VOLUME LOSS ..... 58.2581
----- DISCHARGE
MEAN OBS Q [CFS] ..... 170.2986
MEAN SIM Q [CFS] ..... 135.6162
RMS Q RESIDUALS [CFS] ..... 104.5666
Q RELATIVE BIAS ..... -0.20366
Q NASH-SUTCLIFFE EFFICIENCY ..... 0.84428
Q SIM vs OBS R2 ..... 0.88411
Q SIM vs OBS SLOPE ..... 0.86189
Q SIM vs OBS INTERCEPT ..... 53.4127
----- VOLUME
MEAN OBS V [CFS] ..... 1.7867
MEAN SIM V [CFS] ..... 1.4536
RMS V RESIDUALS [CFS] ..... 0.42578
V RELATIVE BIAS ..... -0.18644
V NASH-SUTCLIFFE EFFICIENCY ..... 0.91401
V SIM vs OBS R2 ..... 0.99158
V SIM vs OBS SLOPE ..... 1.1885
V SIM vs OBS INTERCEPT ..... 0.059183
----- OPTIMIZATION RESULTS
SIM/OBS TOTAL VOLUME RATIO ..... 0.7959
MINIMIZED OBJECTIVE FUNCTION VALUE ..... 3159955.8853
Copt: 3.6508

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### PRECIP LOSS FUNCTION: P<sub>xs</sub>(t) = P<sub>tot</sub> - init.abs(c<sub>1</sub> P<sub>tot</sub>) [0 <= c<sub>1</sub> <= 1]

