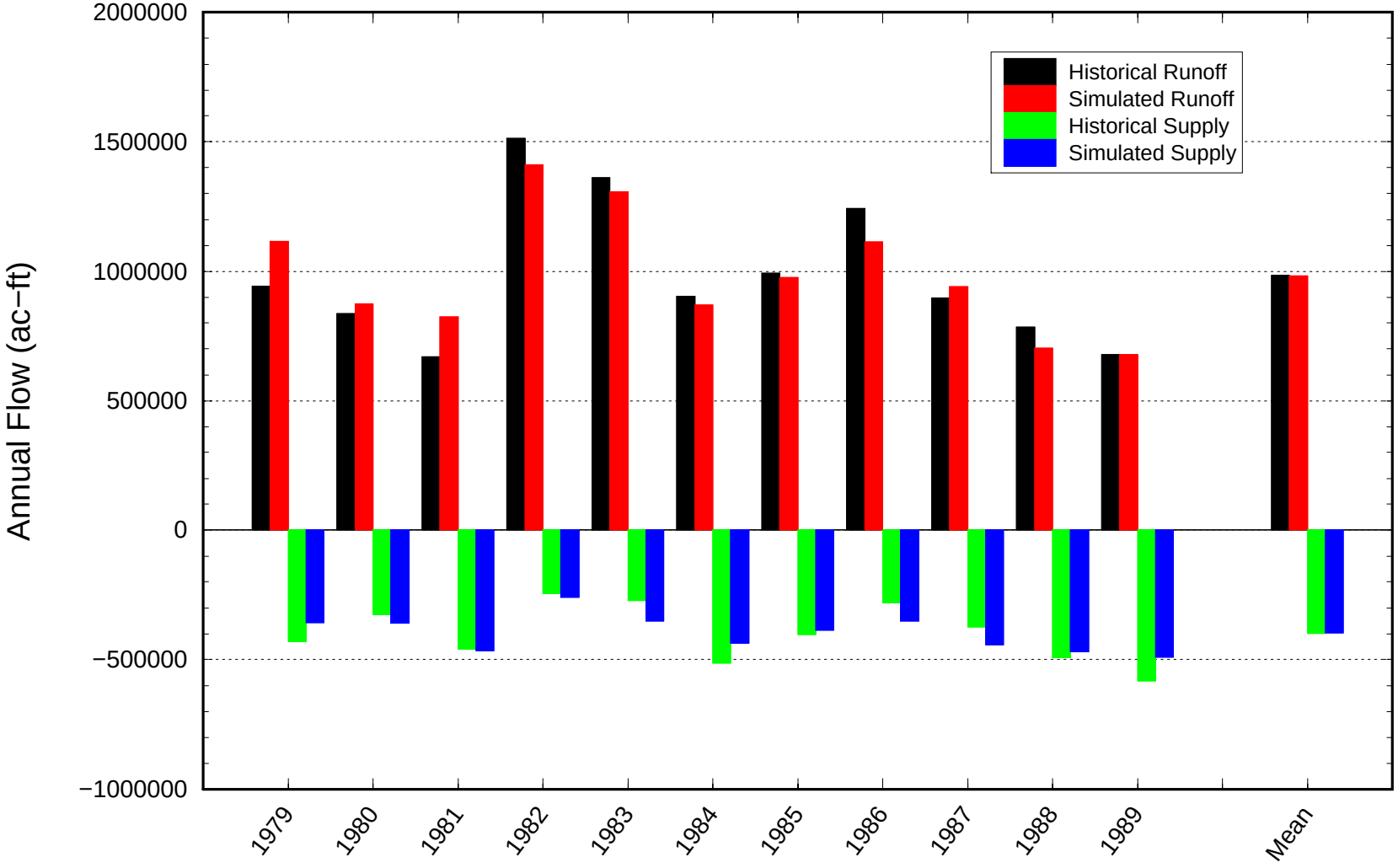
Annual Runoff & Supplemental Flow for the EAA

SFWMM (V5.0) Simulated Compared with Historical (1979−1989)



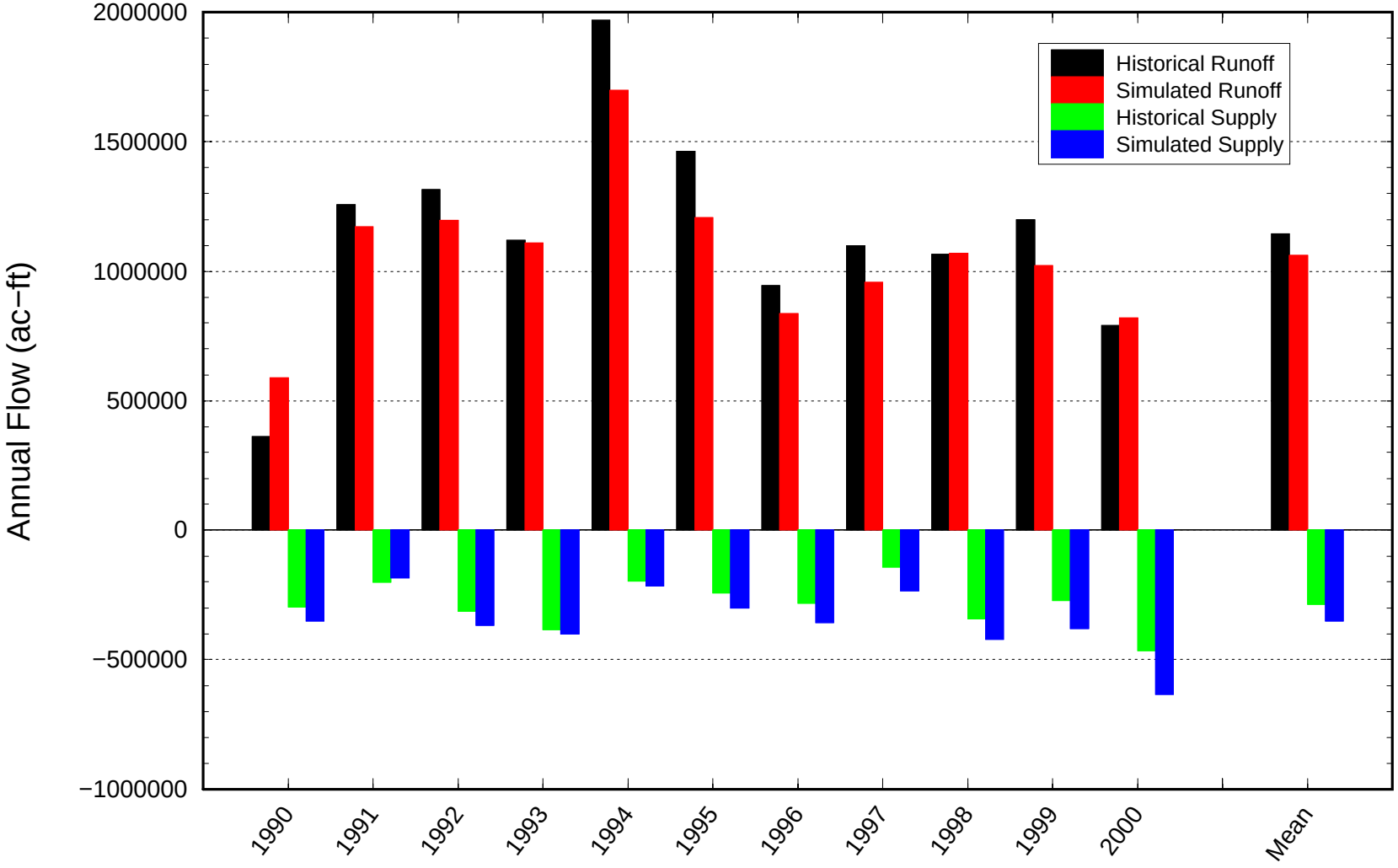
Mean Annual Runoff: Historical=0984 kaf; Simulated=0983 kaf

Mean Annual Supply: Historical=−398 kaf; Simulated=−397 kaf

For Planning Purposes Only
Run date: 09/18/03 08:11:47
SFWMM V5.0
Script used: pm_eaa_calib.scr
Filename: annual_ts_calib.fig

Annual Runoff & Supplemental Flow for the EAA

SFWMM (V5.0) Simulated Compared with Historical (1990−2000)



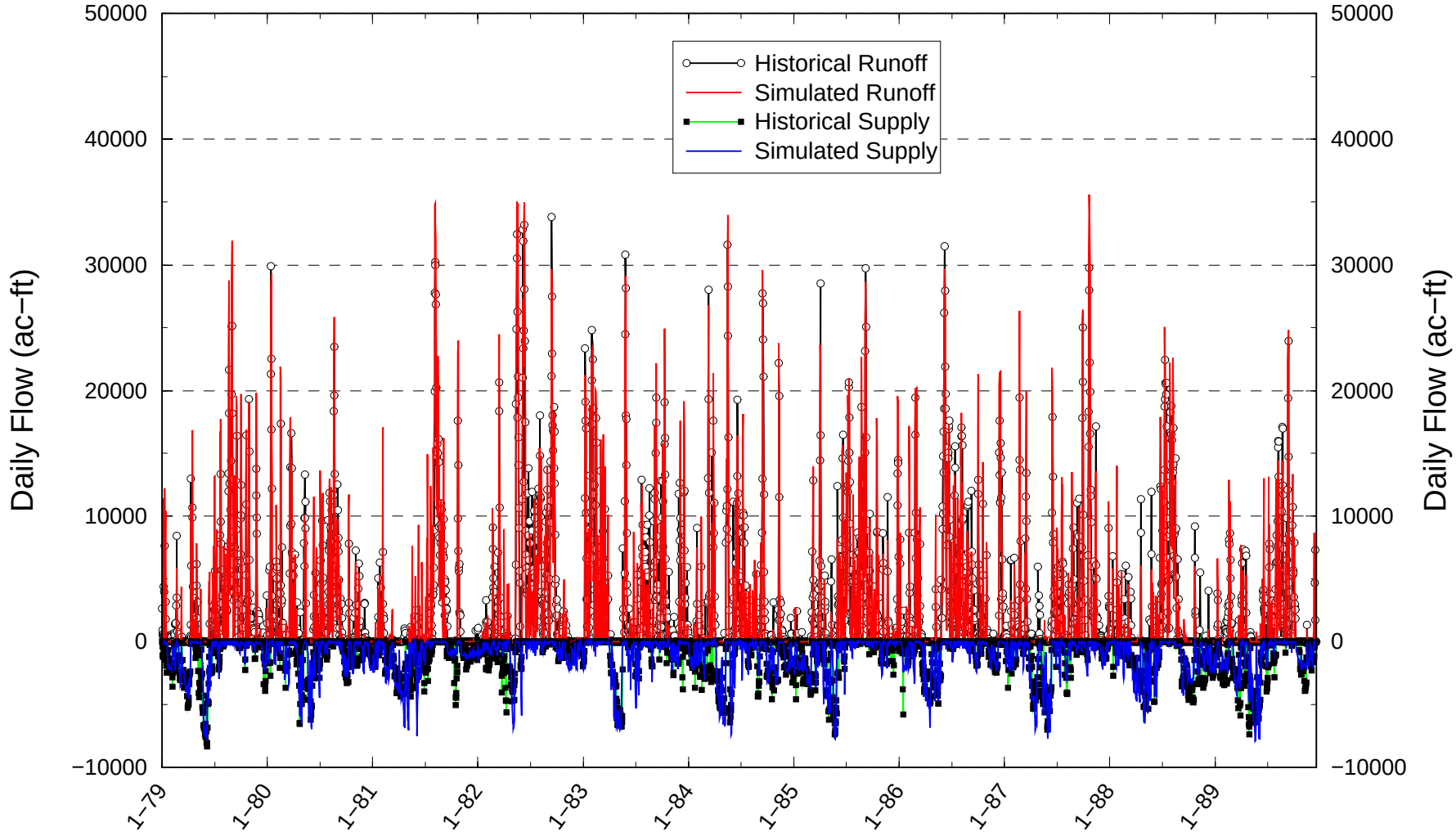
Mean Annual Runoff: Historical=1145 kaf; Simulated=1061 kaf

Mean Annual Supply: Historical=−286 kaf; Simulated=−350 kaf

For Planning Purposes Only
Run date: 09/18/03 08:16:48
SFWMM V5.0
Script used: pm_eaa_calib.scr
Filename: annual_ts_verif.fig

Daily Runoff and Supplemental Flows for the EAA

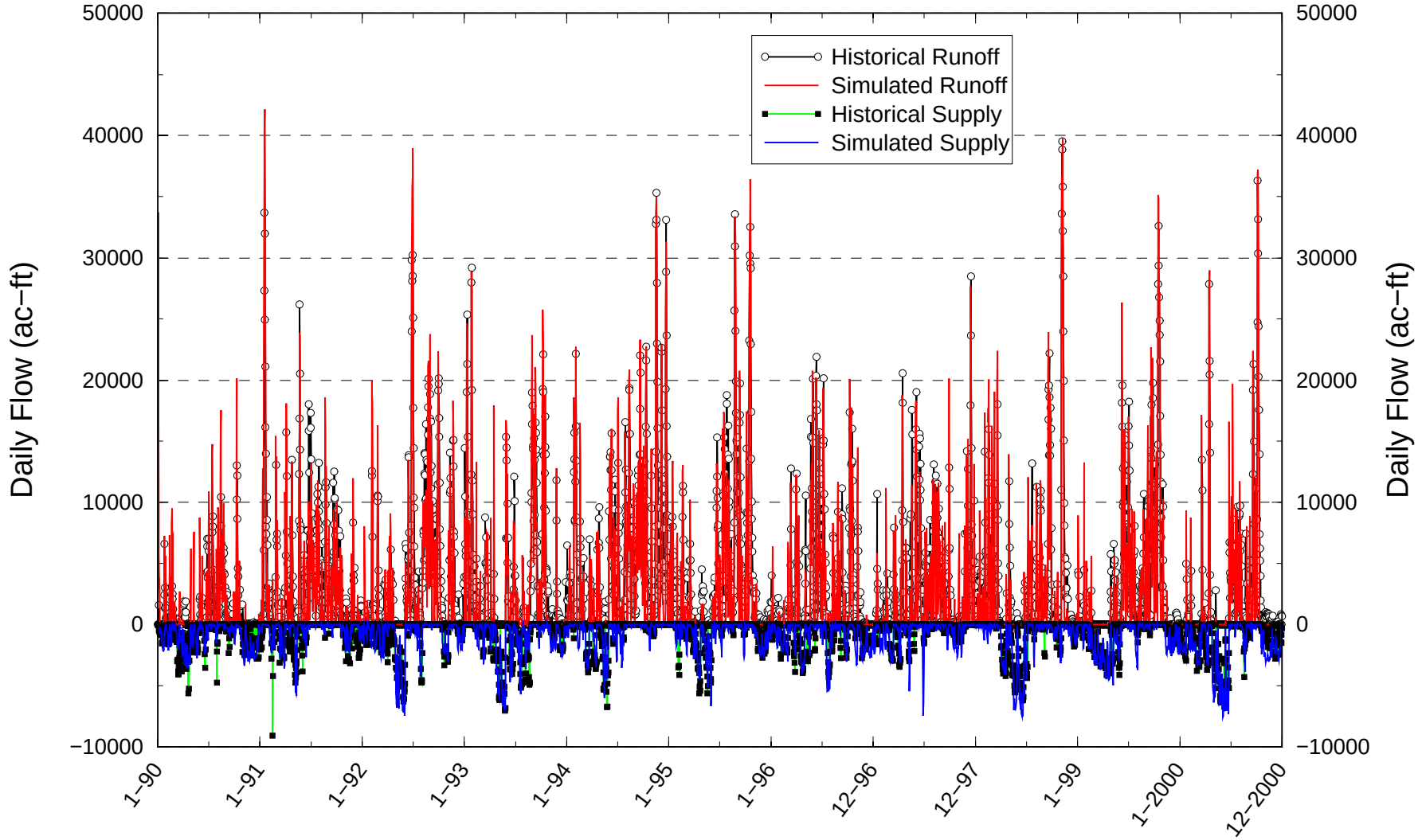
Comparison of Historical and Simulated Values Period 1979 to 1989



For Planning Purposes Only
Run date: 09/18/03 08:12:01
SFWMM V5.0
Script used: pm_eaa_calib.scr
Filename: daily_ts_calib.fig

Daily Runoff and Supplemental Flows for the EAA

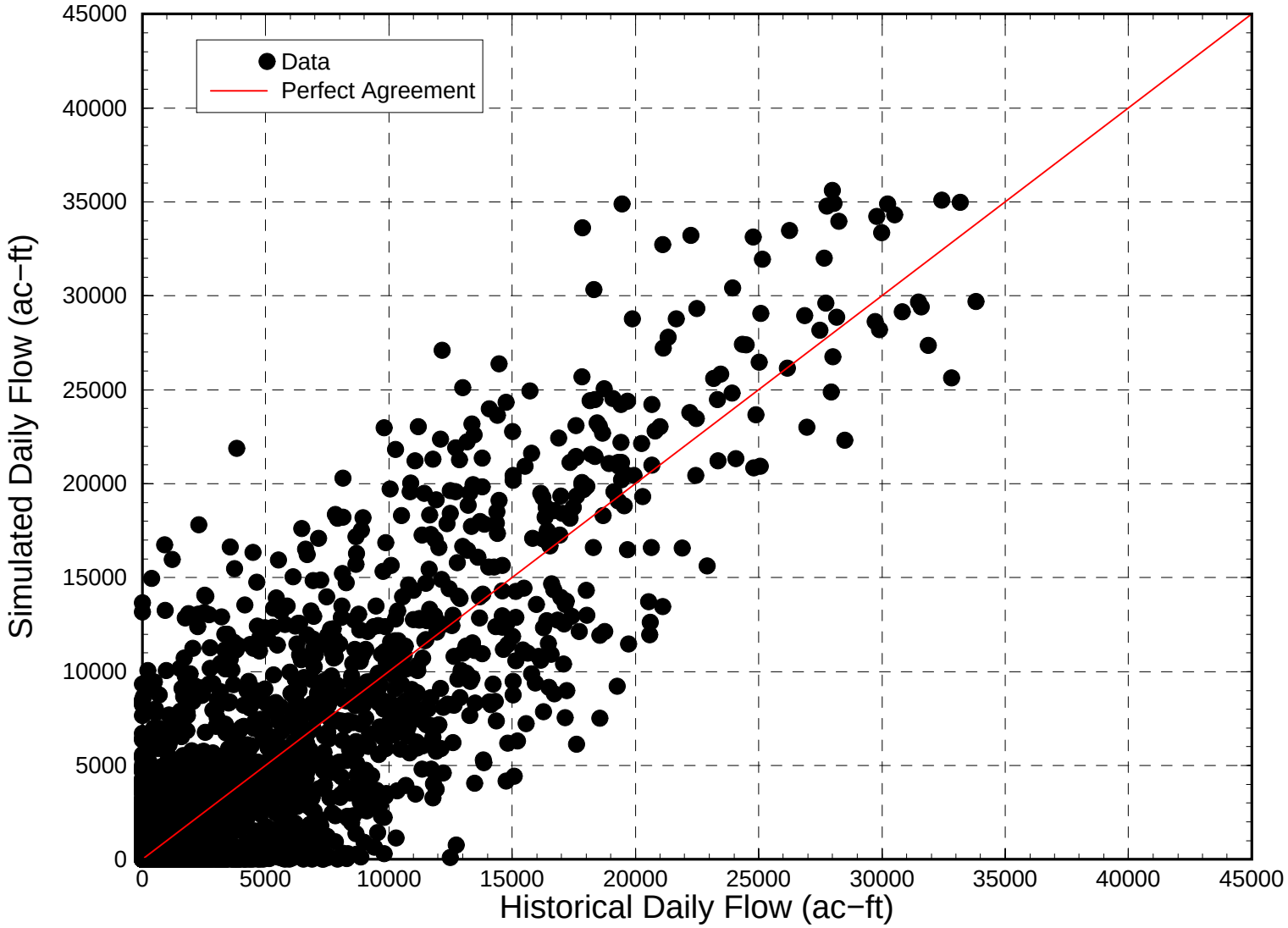
Comparison of Historical and Simulated Values Period 1990 to 2000



For Planning Purposes Only
Run date: 09/18/03 08:17:01
SFWMM V5.0
Script used: pm_eaa_calib.scr
Filename: daily_ts_verif.fig

Daily Historical and Simulated EAA Runoff

Calibration Period 1979 − 1989



Bias (Hist−Sim): 2.23 ac−ft

RMSE: 2748.17 ac−ft

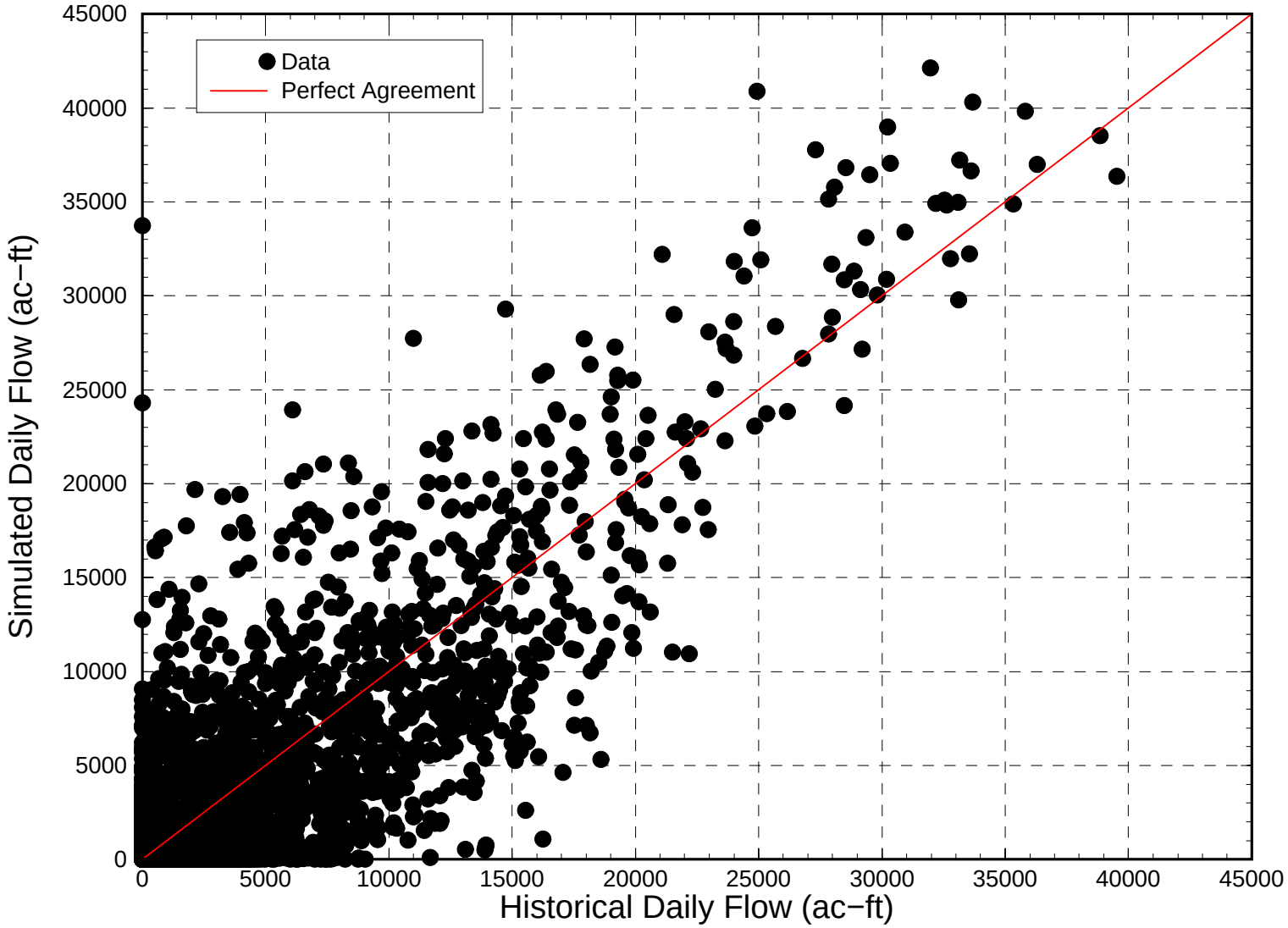
Coefficient of Determination: 0.7613

Efficiency: 0.7003

For Planning Purposes Only
Run date: 09/18/03 08:12:06
SFWMM V5.0
Script used: pm_eaa_calib.scr
Filename: daily_xy_runoff_calib.fig

Daily Historical and Simulated EAA Runoff

Verification Period 1990 − 2000



Bias (Hist−Sim): 227.61 ac−ft

RMSE: 3170.29 ac−ft

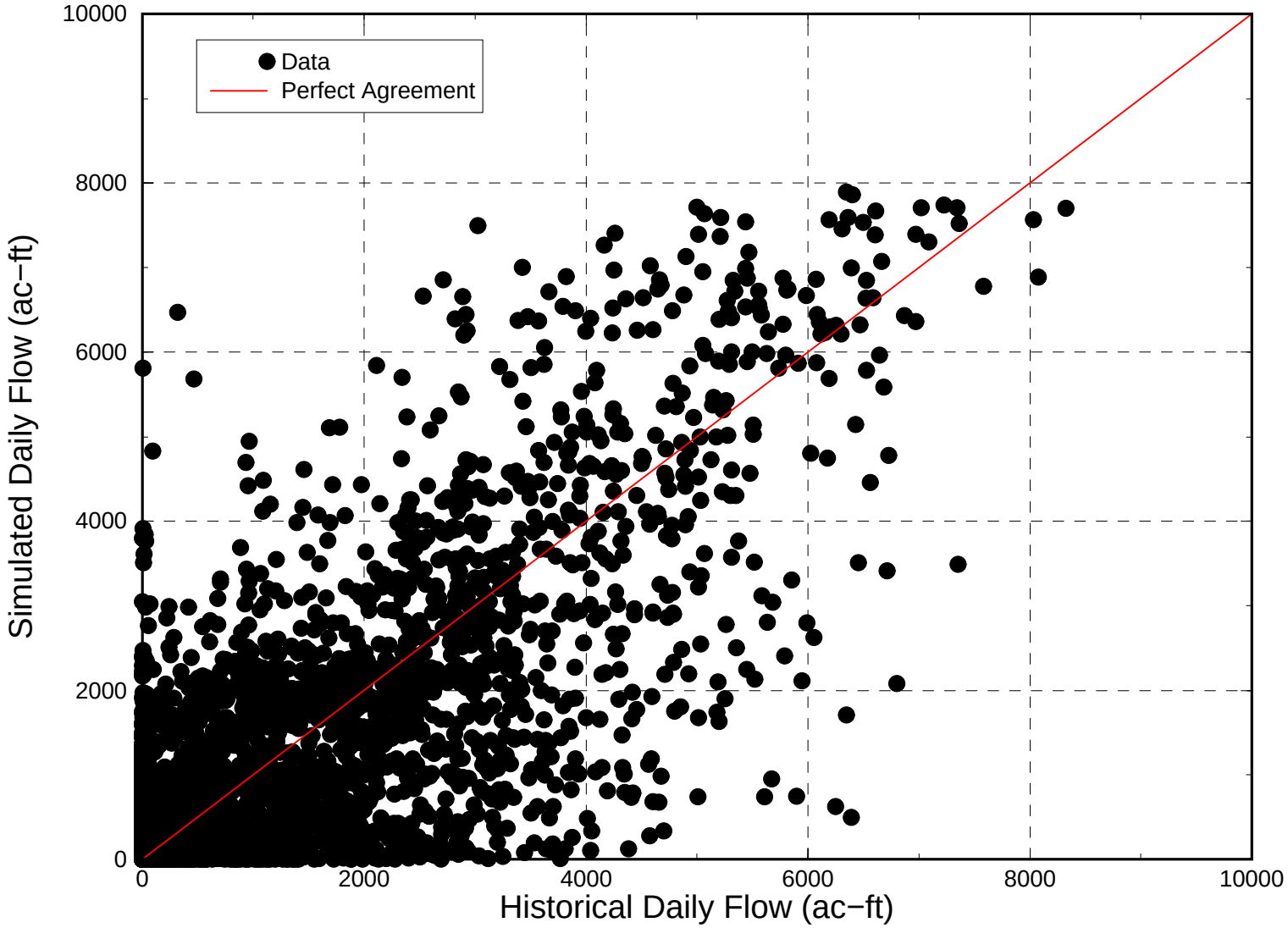
Coefficient of Determination: 0.7081

Efficiency: 0.6435

For Planning Purposes Only
Run date: 09/18/03 08:17:06
SFWMM V5.0
Script used: pm_eaa_calib.scr
Filename: daily_xy_runoff_verif.fig

Daily Historical and Simulated EAA Supply

Calibration Period 1979 − 1989



Bias (Hist−Sim): 1.44 ac−ft

RMSE: 1029.05 ac−ft

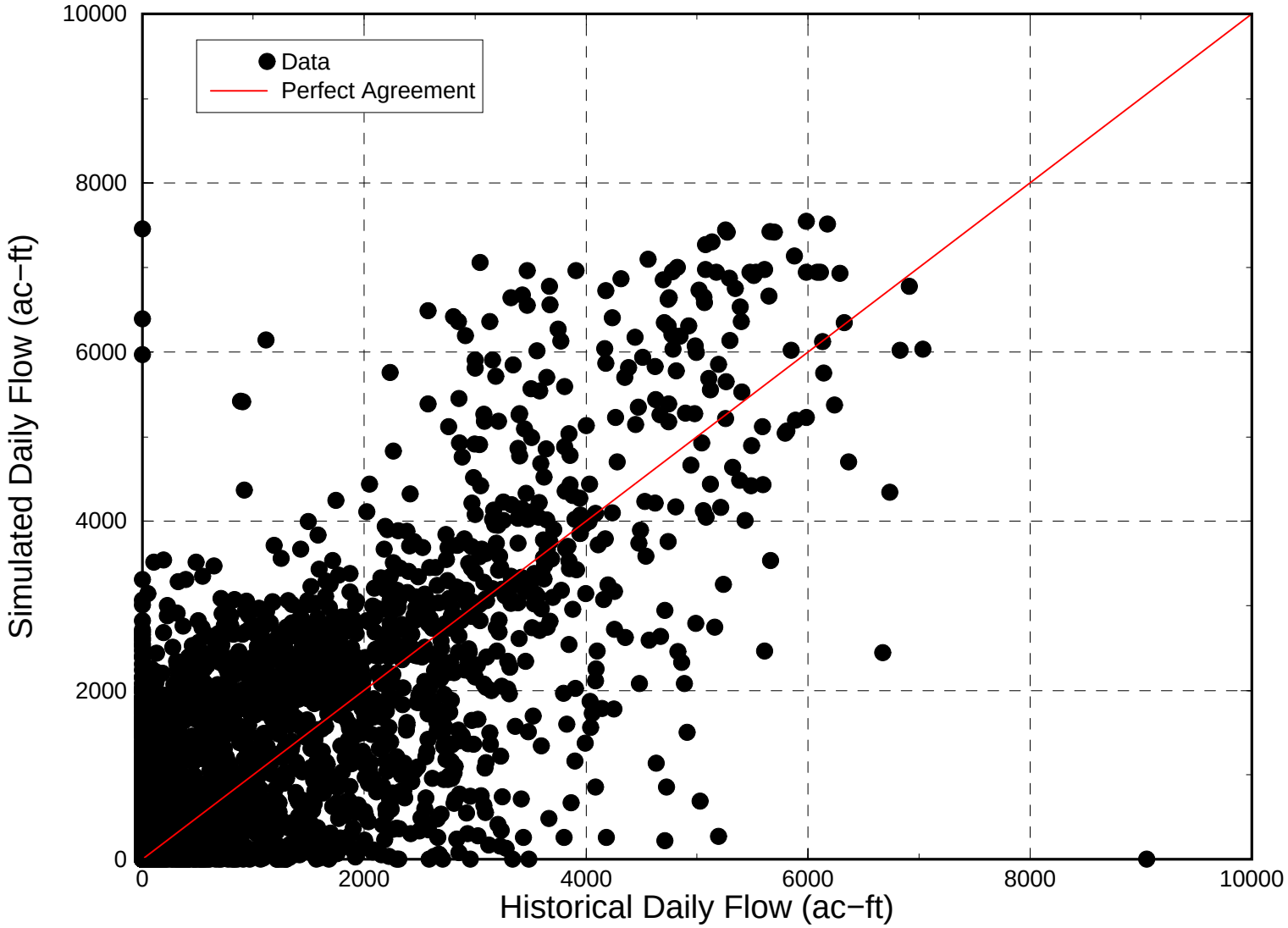
Coefficient of Determination: 0.6036

Efficiency: 0.5448

For Planning Purposes Only
Run date: 09/18/03 08:12:11
SFWMM V5.0
Script used: pm_eaa_calib.scr
Filename: daily_xy_supply_calib.fig

Daily Historical and Simulated EAA Supply

Verification Period 1990 − 2000



Bias (Hist−Sim): −175.669 ac−ft

RMSE: 910.058 ac−ft

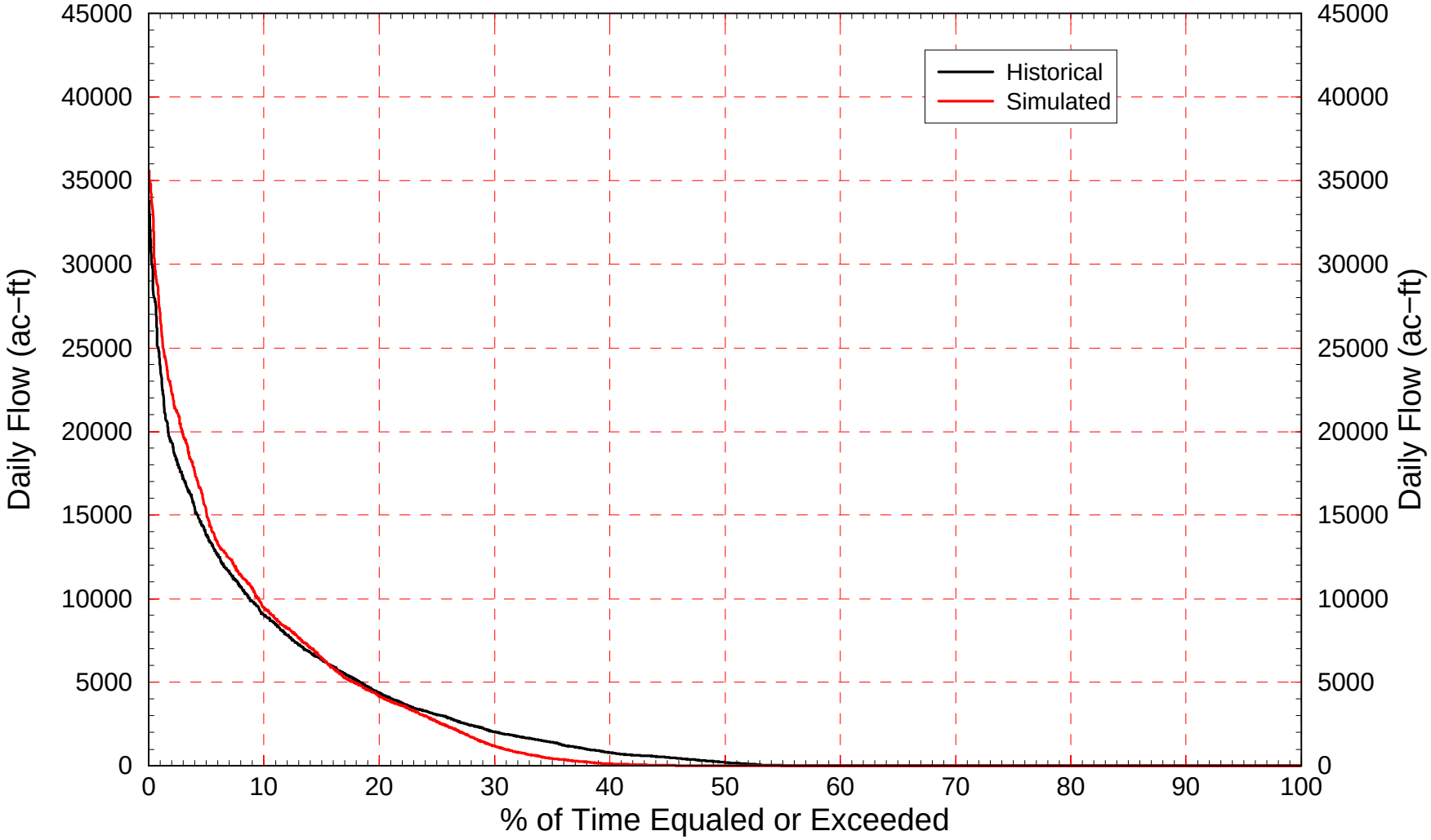
Coefficient of Determination: 0.6143

Efficiency: 0.4844

For Planning Purposes Only
Run date: 09/18/03 08:17:11
SFWMM V5.0
Script used: pm_eaa_calib.scr
Filename: daily_xy_supply_verif.fig

Flow Duration − Daily EAA Runoff

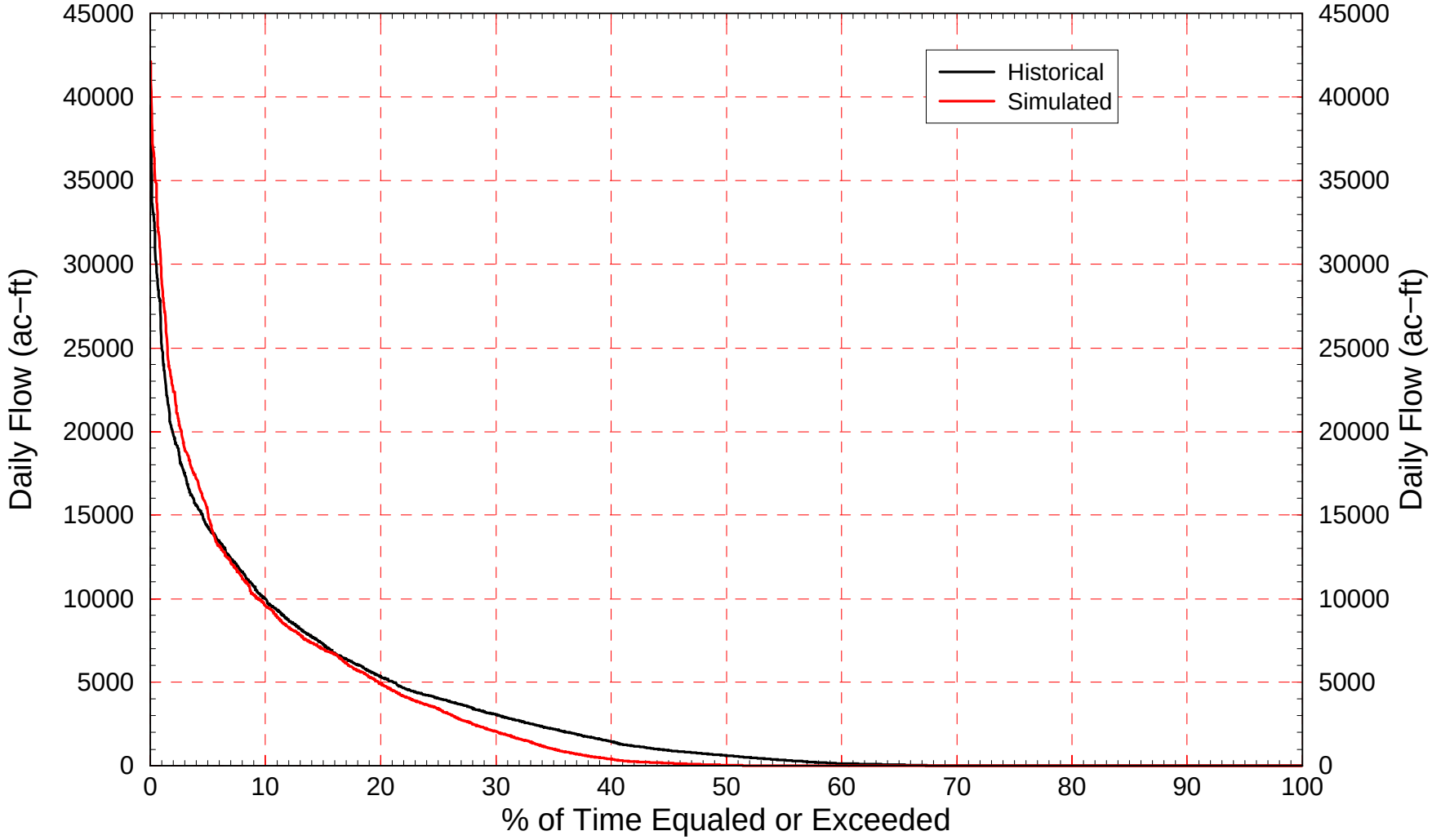
Calibration Period 1979 − 1989



For Planning Purposes Only
Run date: 09/18/03 08:12:15
SFWMM V5.0
Script used: pm_eaa_calib.scr
Filename: fldur_runoff_calib.fig

Flow Duration − Daily EAA Runoff

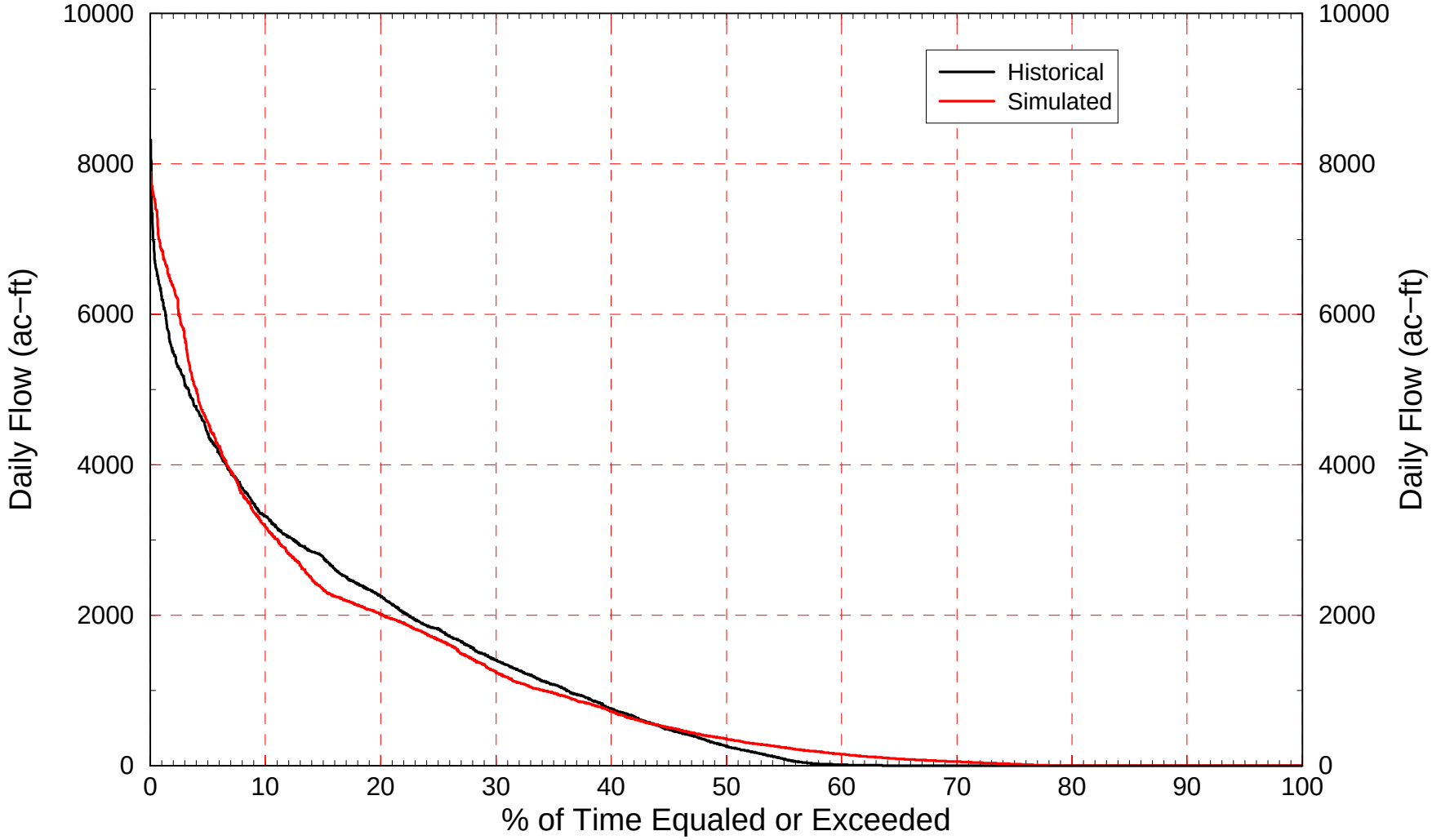
Verification Period 1990 − 2000



For Planning Purposes Only
Run date: 09/18/03 08:17:15
SFWMM V5.0
Script used: pm_eaa_calib.scr
Filename: fldur_runoff_verif.fig

Flow Duration − Daily EAA Supply

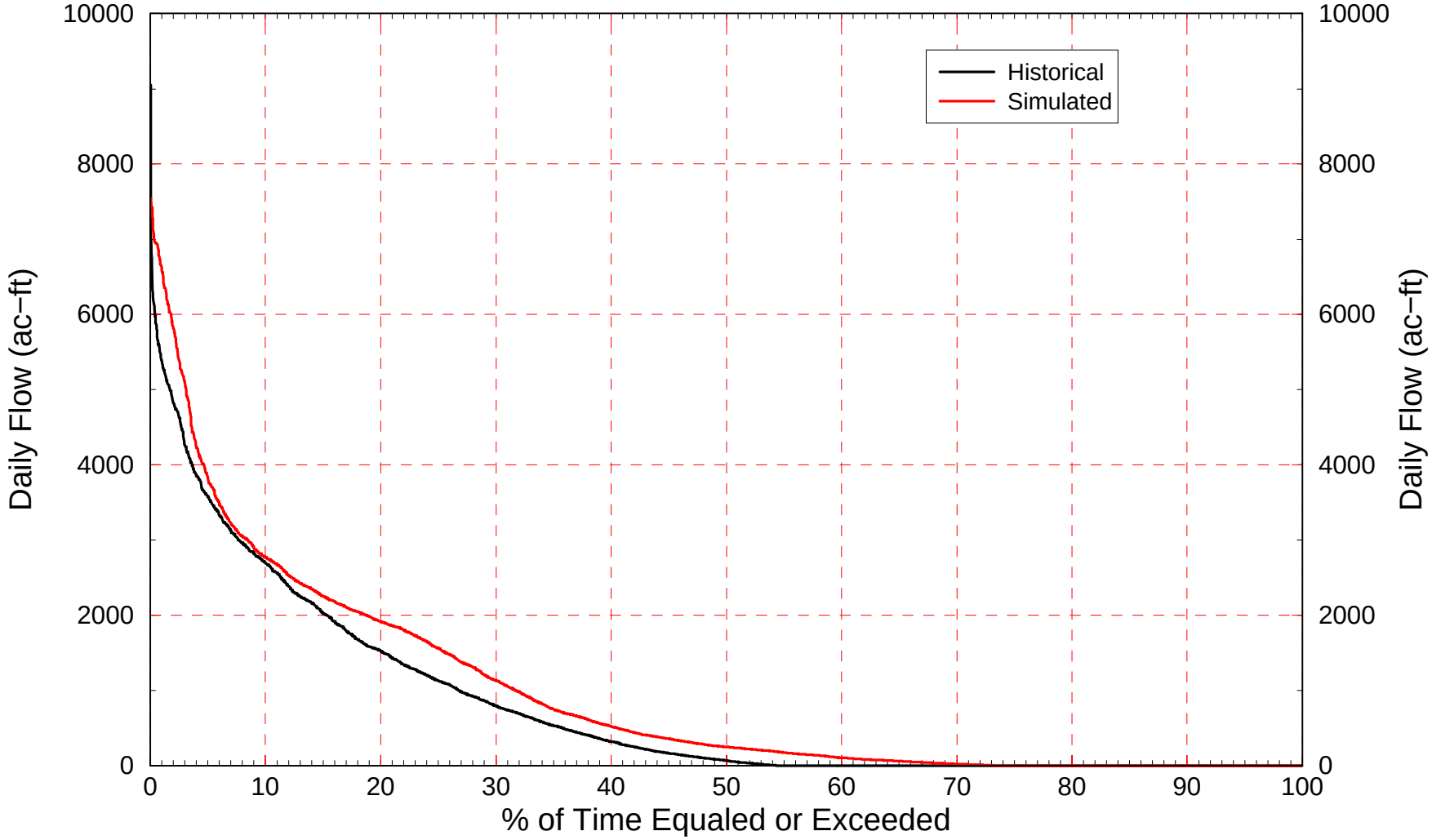
Calibration Period 1979 − 1989



For Planning Purposes Only
Run date: 09/18/03 08:12:19
SFWMM V5.0
Script used: pm_eaa_calib.scr
Filename: fldur_supply_calib.fig

Flow Duration − Daily EAA Supply

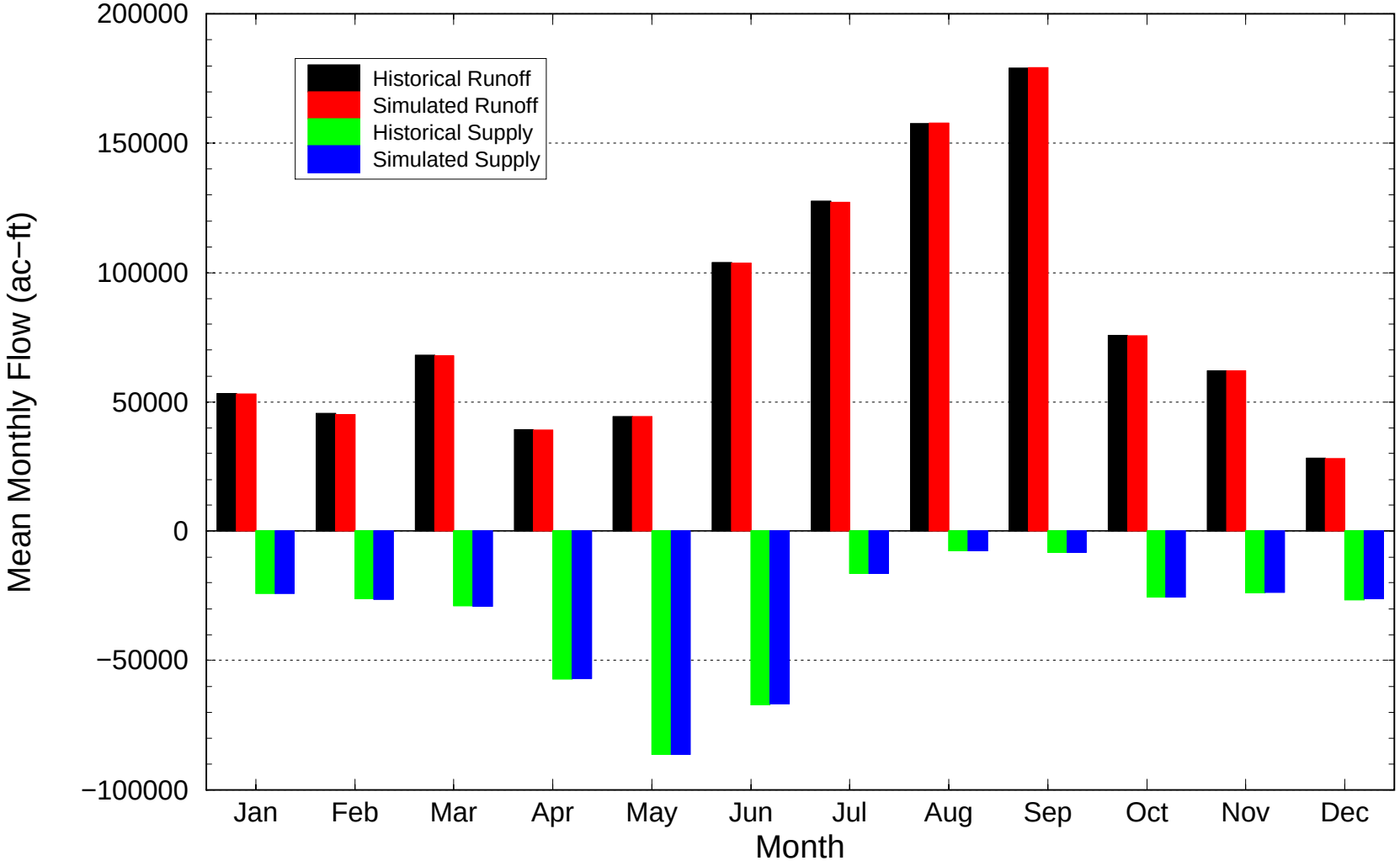
Verification Period 1990 − 2000



For Planning Purposes Only
Run date: 09/18/03 08:17:19
SFWMM V5.0
Script used: pm_eaa_calib.scr
Filename: fldur_supply_verif.fig

Mean Monthly Runoff & Supply Comparison

Calibration Period 1979 − 1989



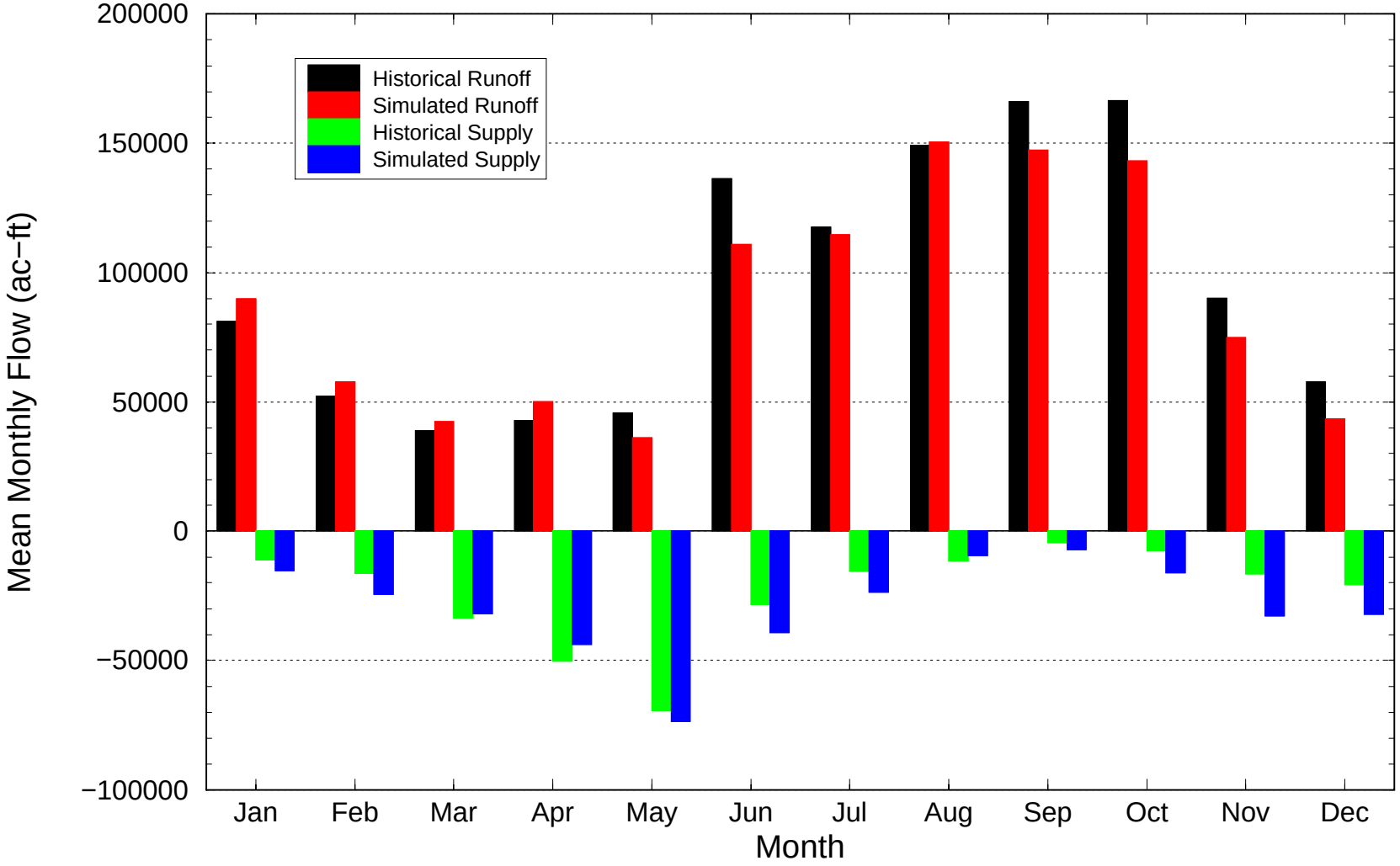
Mean Annual Runoff: Historical=0984 kaf; Simulated=0983 kaf

Mean Annual Supply: Historical=0398 kaf; Simulated=0397 kaf

For Planning Purposes Only
Run date: 09/18/03 08:11:45
SFWMM V5.0
Script used: pm_eaa_calib.scr
Filename: mean_mon_calib.fig

Mean Monthly Runoff & Supply Comparison

Verification Period 1990 − 2000



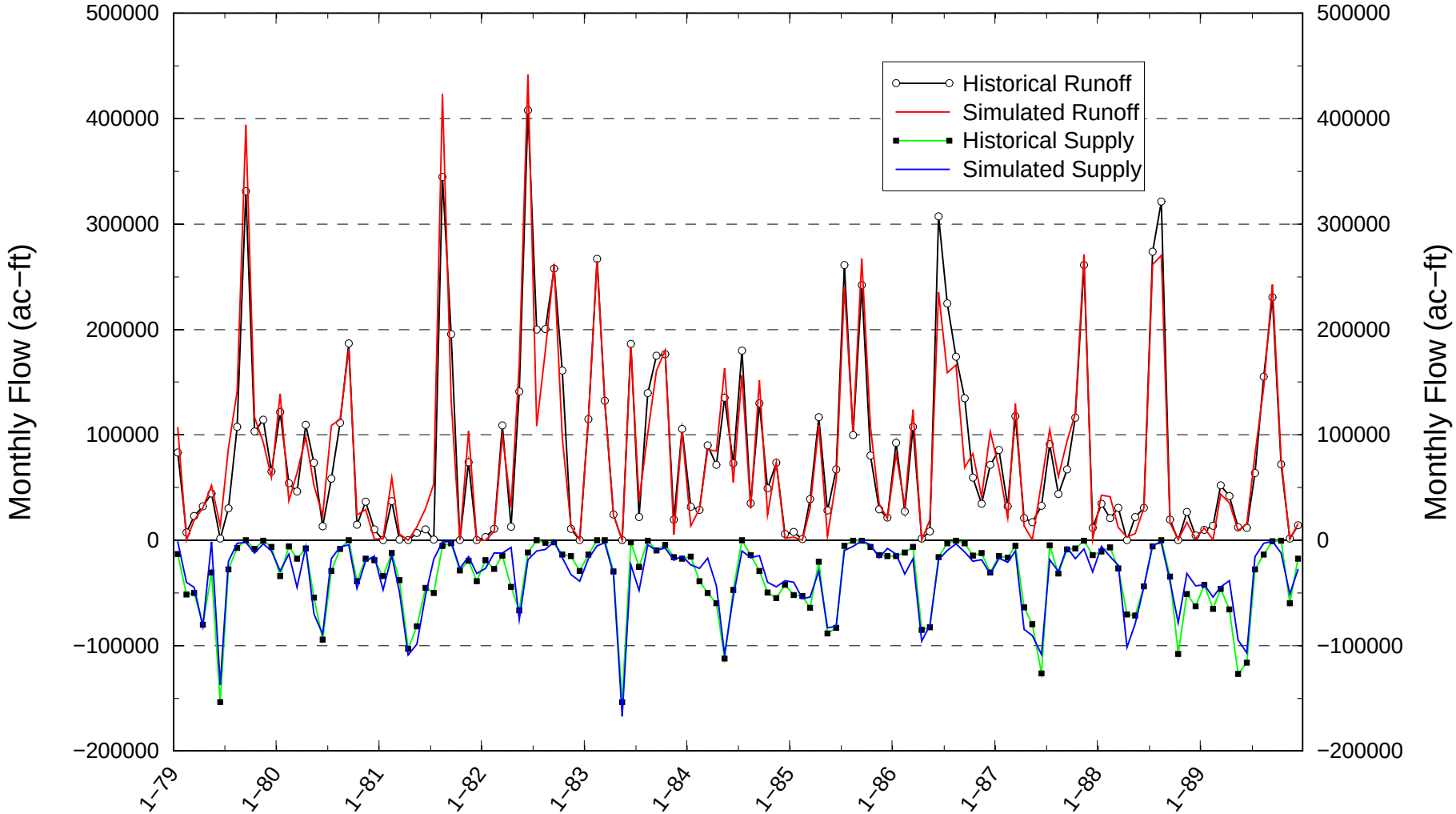
Mean Annual Runoff: Historical=1145 kaf; Simulated=1061 kaf

Mean Annual Supply: Historical=0286 kaf; Simulated=0350 kaf

For Planning Purposes Only
Run date: 09/18/03 08:16:45
SFWMM V5.0
Script used: pm_eaa_calib.scr
Filename: mean_mon_verif.fig

Monthly Runoff and Supplemental Flows for the EAA

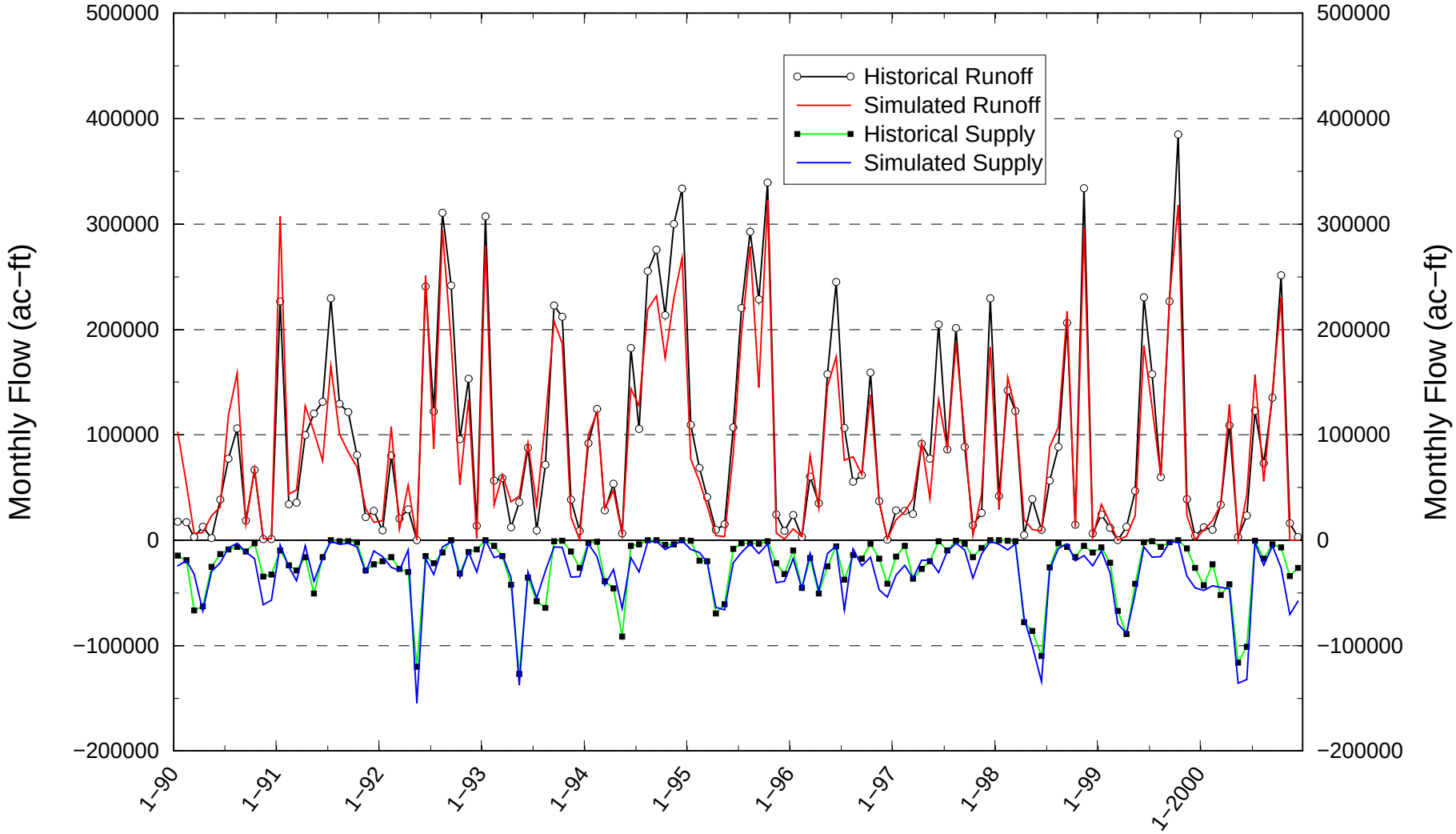
Comparison of Historical and Simulated Values Period 1979 to 1989



For Planning Purposes Only
Run date: 09/18/03 08:11:50
SFWMM V5.0
Script used: pm_eaa_calib.scr
Filename: monthly_ts_calib.fig

Monthly Runoff and Supplemental Flows for the EAA

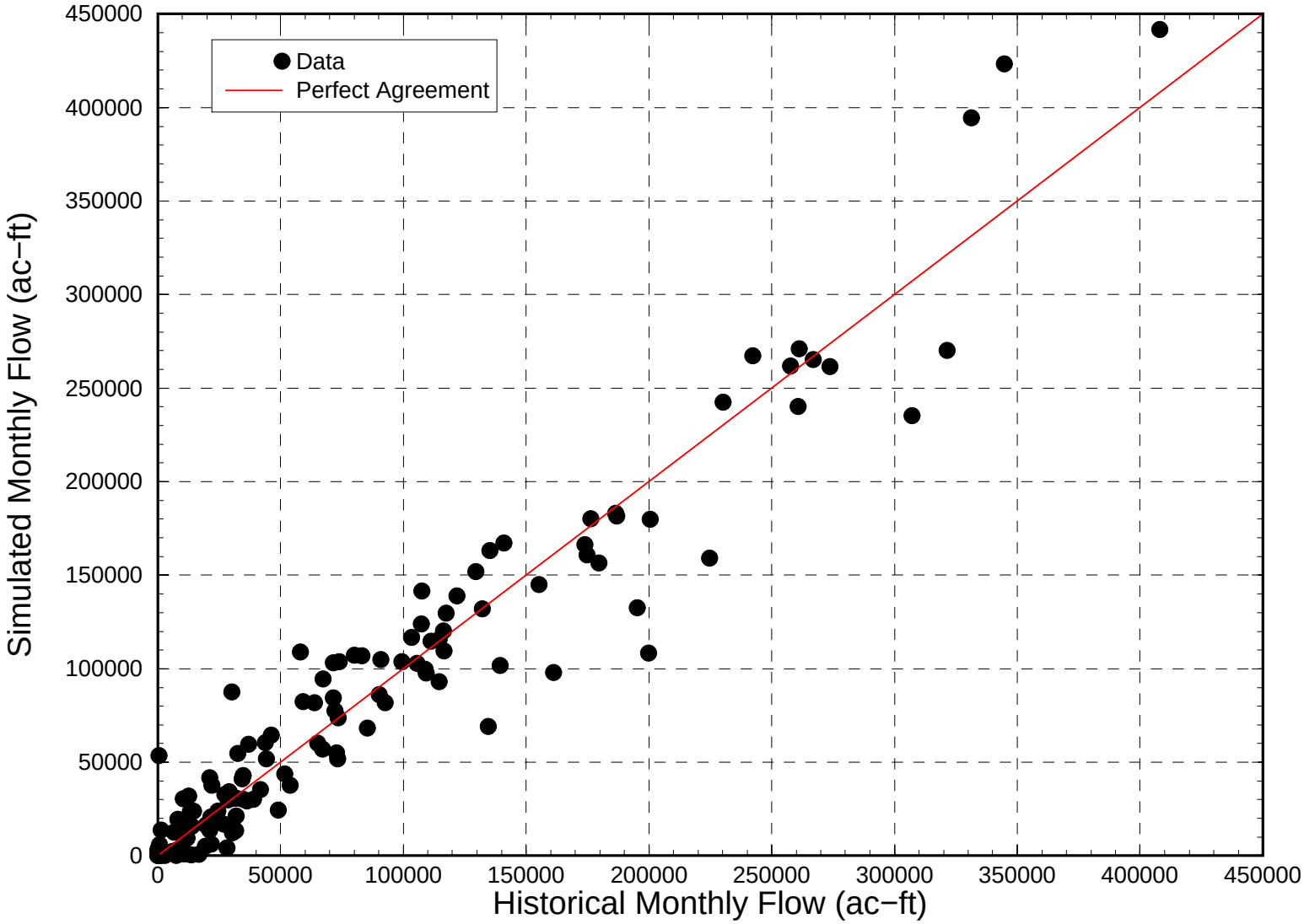
Comparison of Historical and Simulated Values Period 1990 to 2000



For Planning Purposes Only
Run date: 09/18/03 08:16:51
SFWMM V5.0
Script used: pm_eaa_calib.scr
Filename: monthly_ts_verif.fig

Monthly Historical and Simulated EAA Runoff

Calibration Period 1979 − 1989



Bias (Hist−Sim): 67.7 ac−ft

RMSE: 24076.4 ac−ft

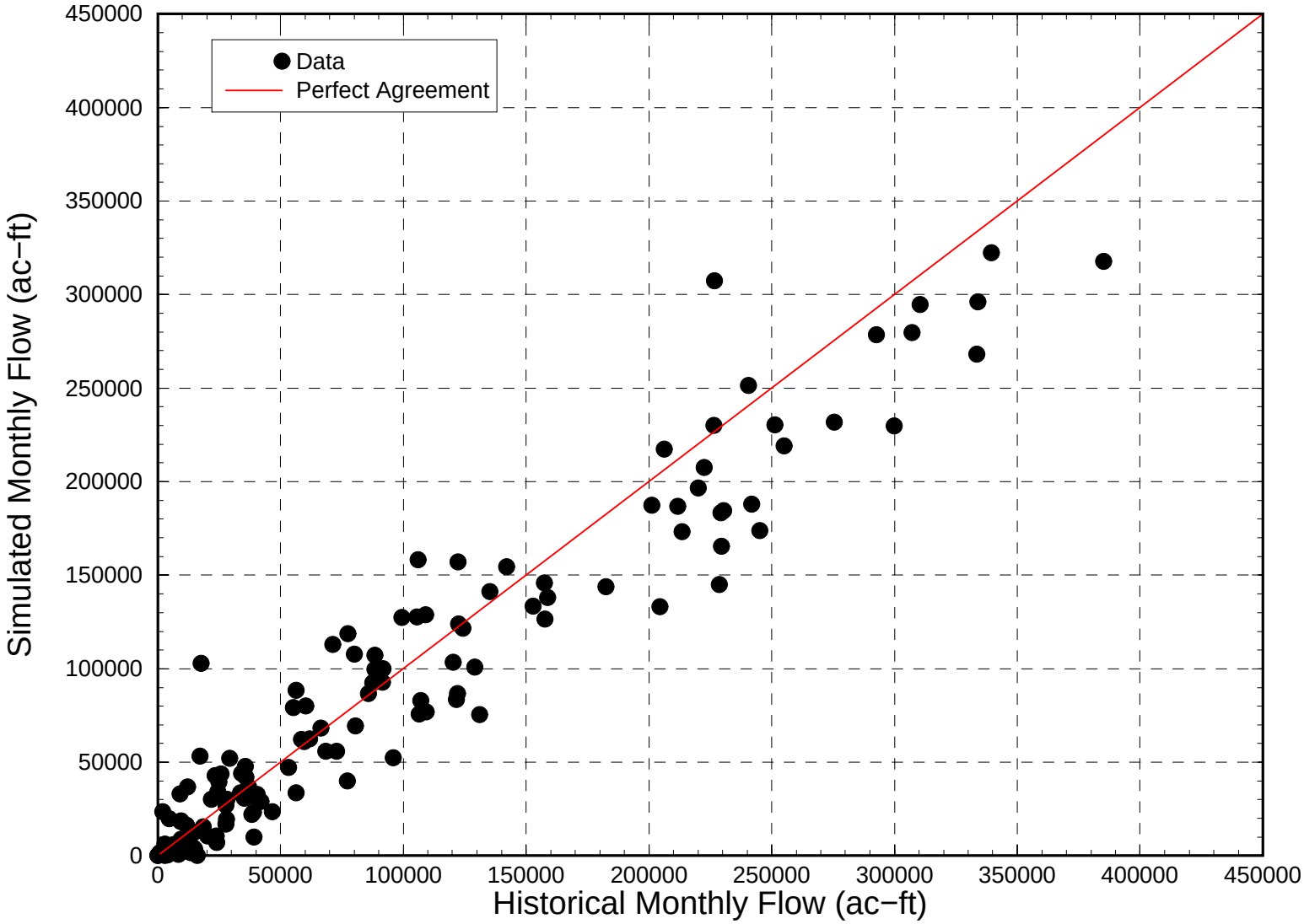
Coefficient of Determination: 0.9270

Efficiency: 0.9249

For Planning Purposes Only
Run date: 09/18/03 08:11:54
SFWMM V5.0
Script used: pm_eaa_calib.scr
Filename: monthly_xy_runoff_calib.fig

Monthly Historical and Simulated EAA Runoff

Verification Period 1990 − 2000



Bias (Hist−Sim): 6928.3 ac−ft

RMSE: 28298.5 ac−ft

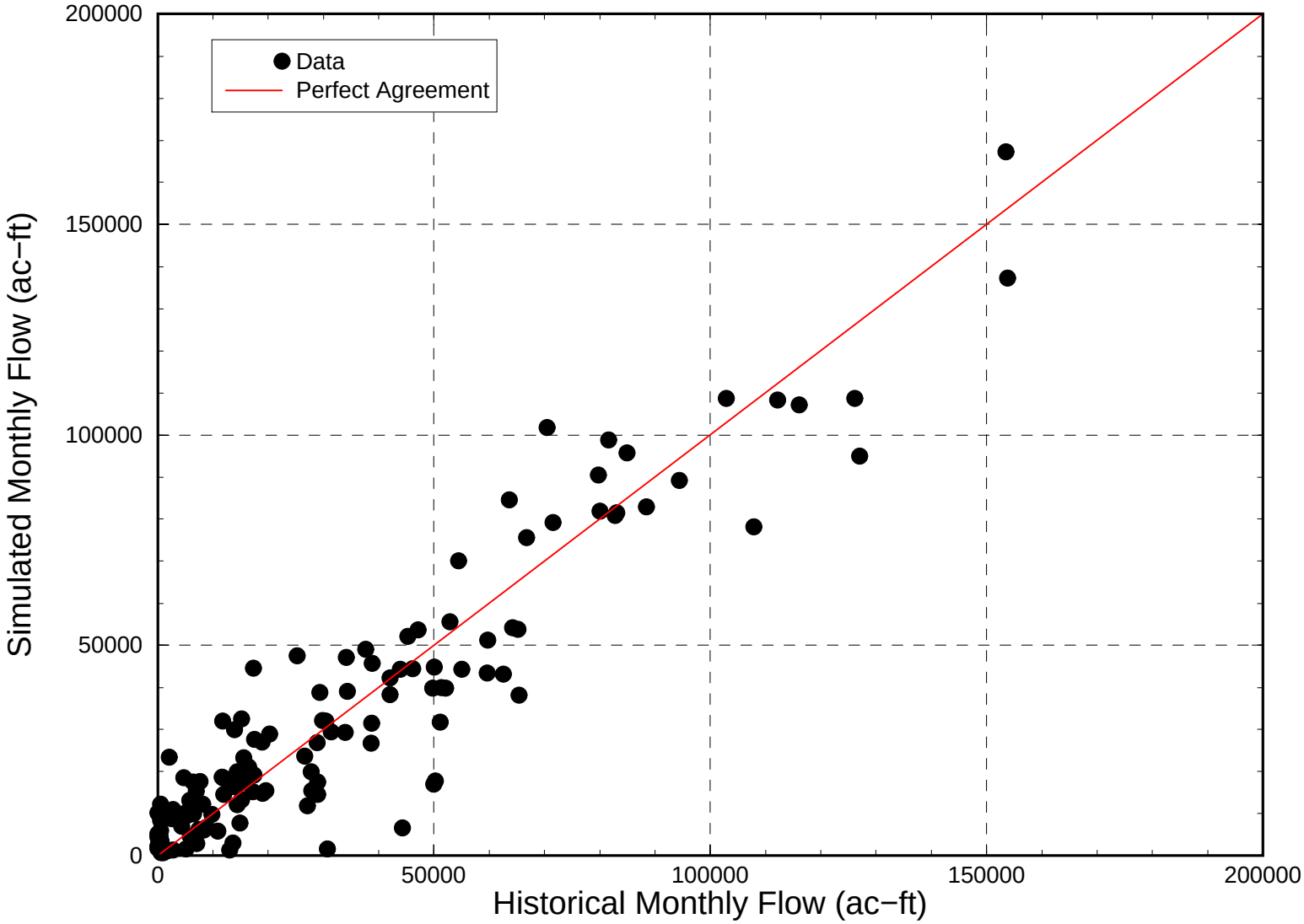
Coefficient of Determination: 0.9222

Efficiency: 0.9120

For Planning Purposes Only
Run date: 09/18/03 08:16:55
SFWMM V5.0
Script used: pm_eaa_calib.scr
Filename: monthly_xy_runoff_verif.fig

Monthly Historical and Simulated EAA Supply

Calibration Period 1979 − 1989



Bias (Hist−Sim): 43.8 ac−ft

RMSE: 11932.8 ac−ft

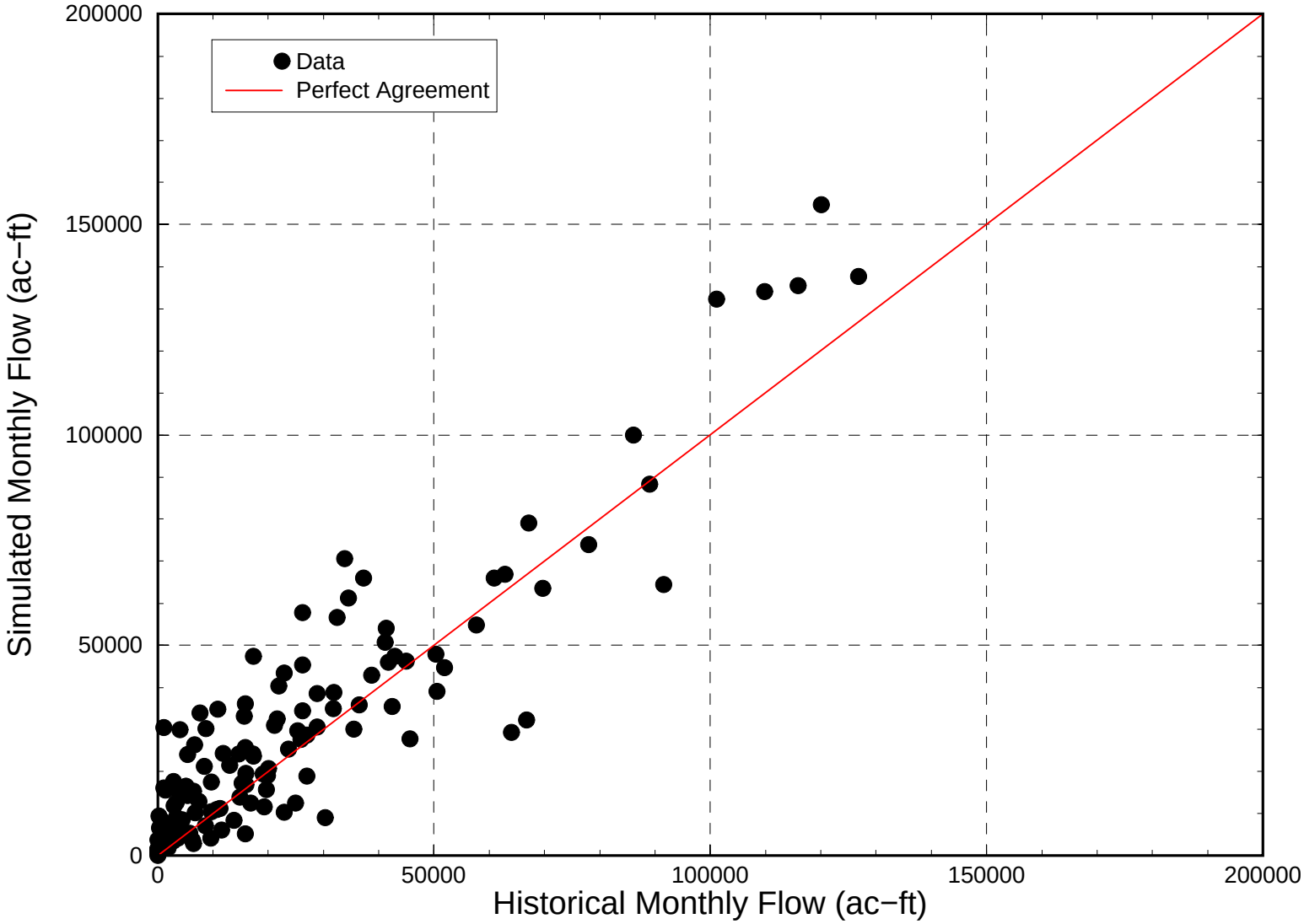
Coefficient of Determination: 0.8765

Efficiency: 0.8762

For Planning Purposes Only
Run date: 09/18/03 08:11:58
SFWMM V5.0
Script used: pm_eaa_calib.scr
Filename: monthly_xy_supply_calib.fig

Monthly Historical and Simulated EAA Supply

Verification Period 1990 − 2000



Bias (Hist−Sim): −5347.4 ac−ft

RMSE: 13266.7 ac−ft

Coefficient of Determination: 0.8381

Efficiency: 0.7703

For Planning Purposes Only
Run date: 09/18/03 08:16:58
SFWMM V5.0
Script used: pm_eaa_calib.scr
Filename: monthly_xy_supply_verif.fig