

Figure 2.14 (1) Daily Discharge Hydrograph for Jarum (1978 - 2005) (1/3)

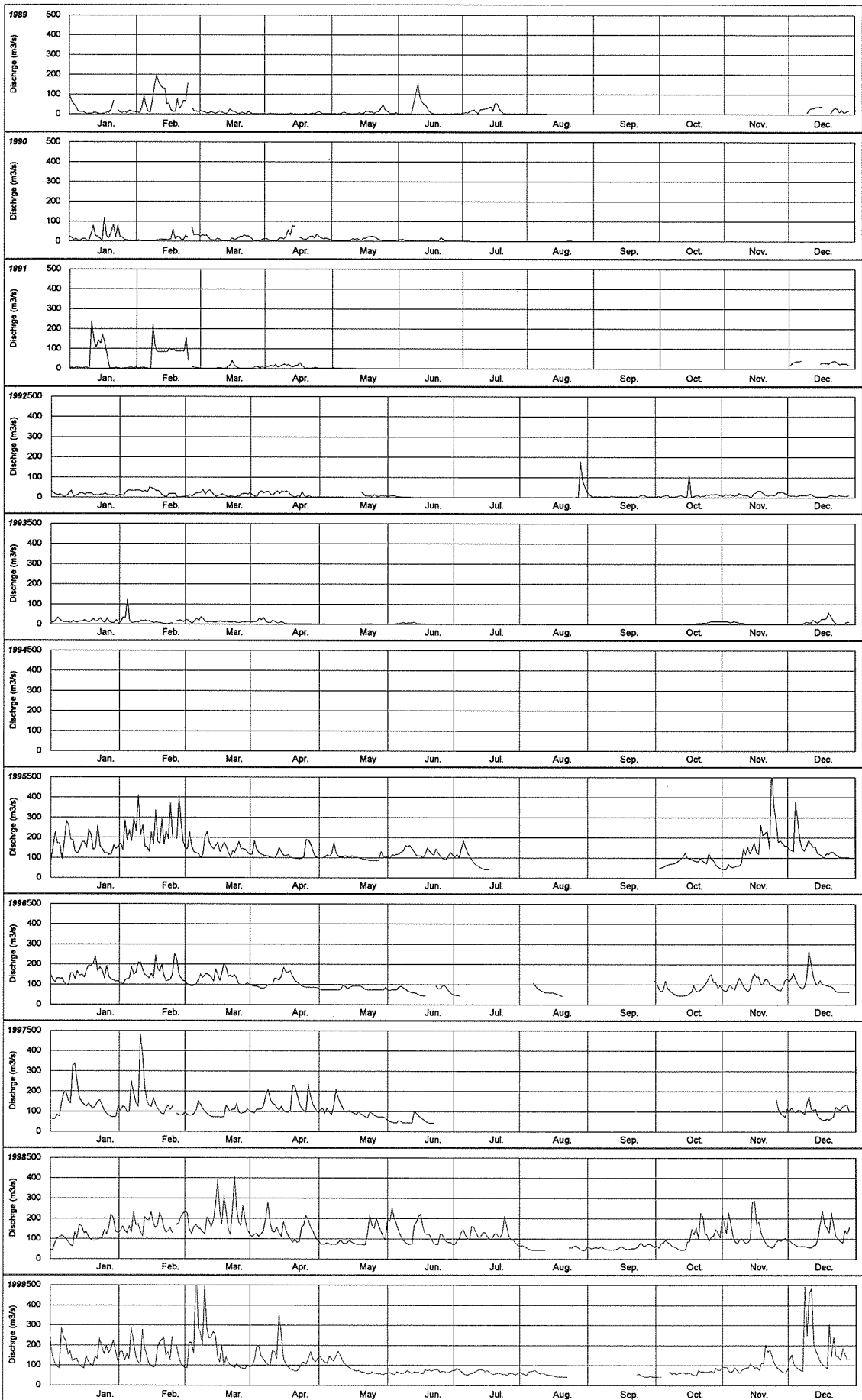


Figure 2.14 (1) Daily Discharge Hydrograph for Jarum (1978 - 2005) (2/3)

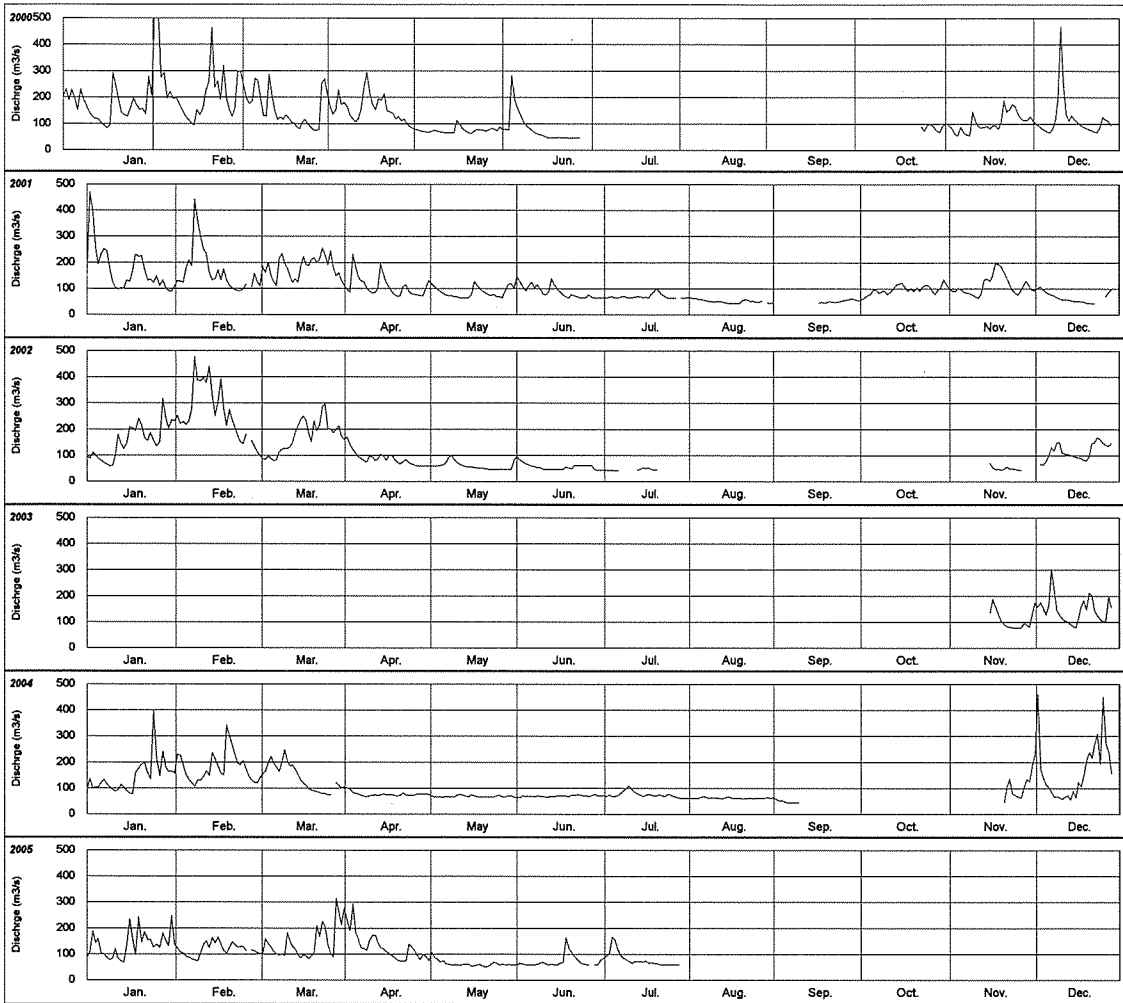


Figure 2.14 (1) Daily Discharge Hydrograph for Jarum (1978 - 2005) (3/3)

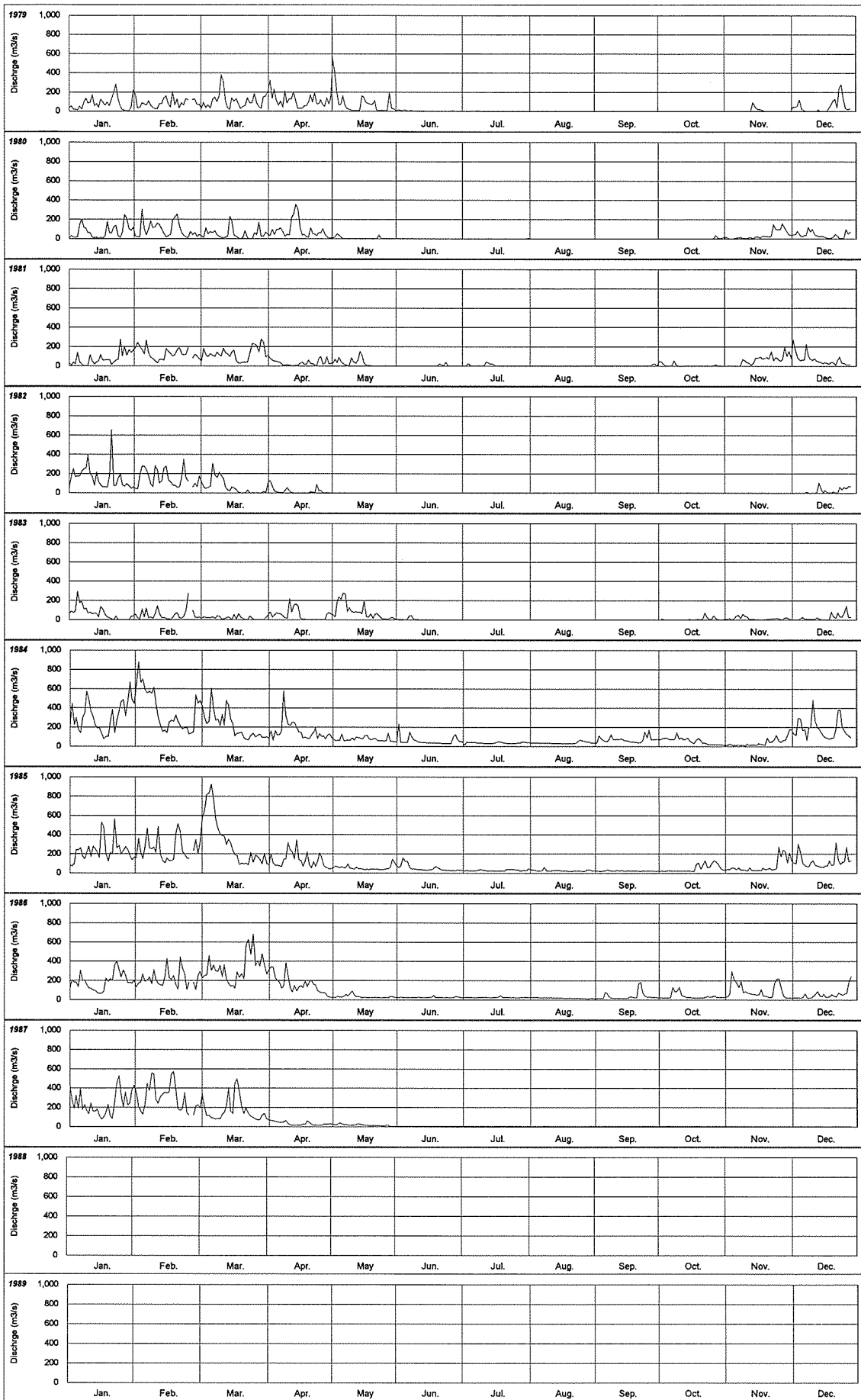


Figure 2.14 (2) Daily Discharge Hydrograph for Jurug (1979 - 2005) (1/3)

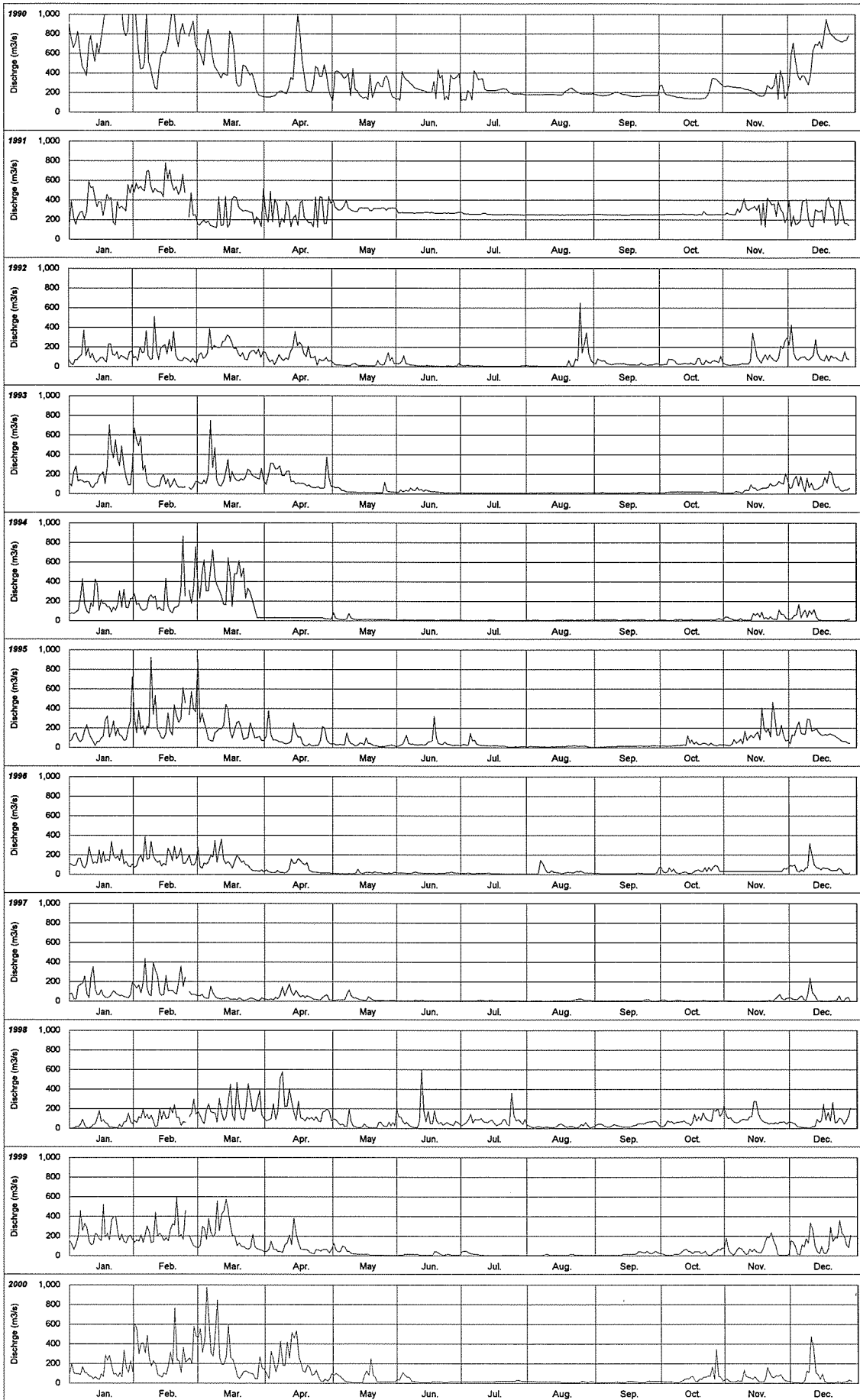


Figure 2.14 (2) Daily Discharge Hydrograph for Jurug (1979 - 2005) (2/3)

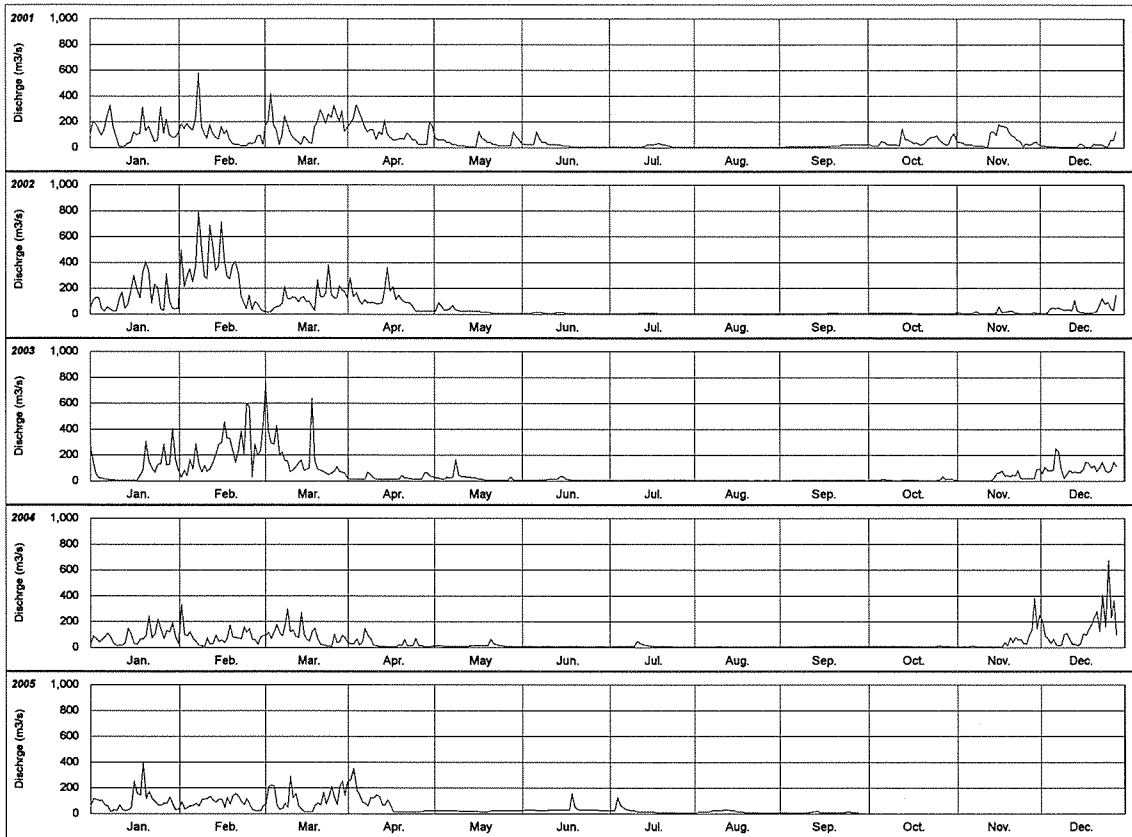


Figure 2.14 (2) Daily Discharge Hydrograph for Jurug (1979 - 2005) (3/3)

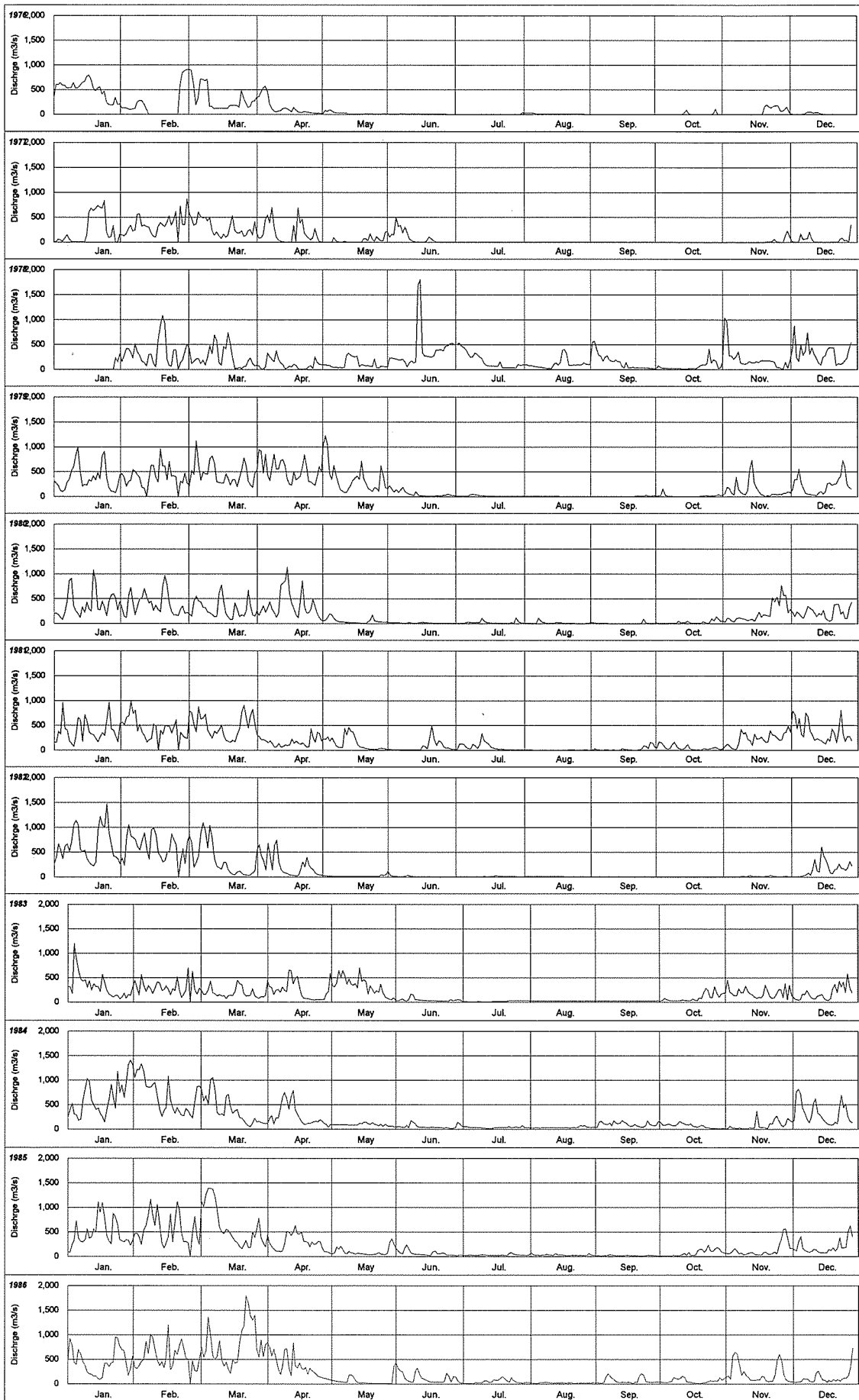


Figure 2.14 (3) Daily Discharge Hydrograph for KaJangan (1976 - 2005) (1/3)

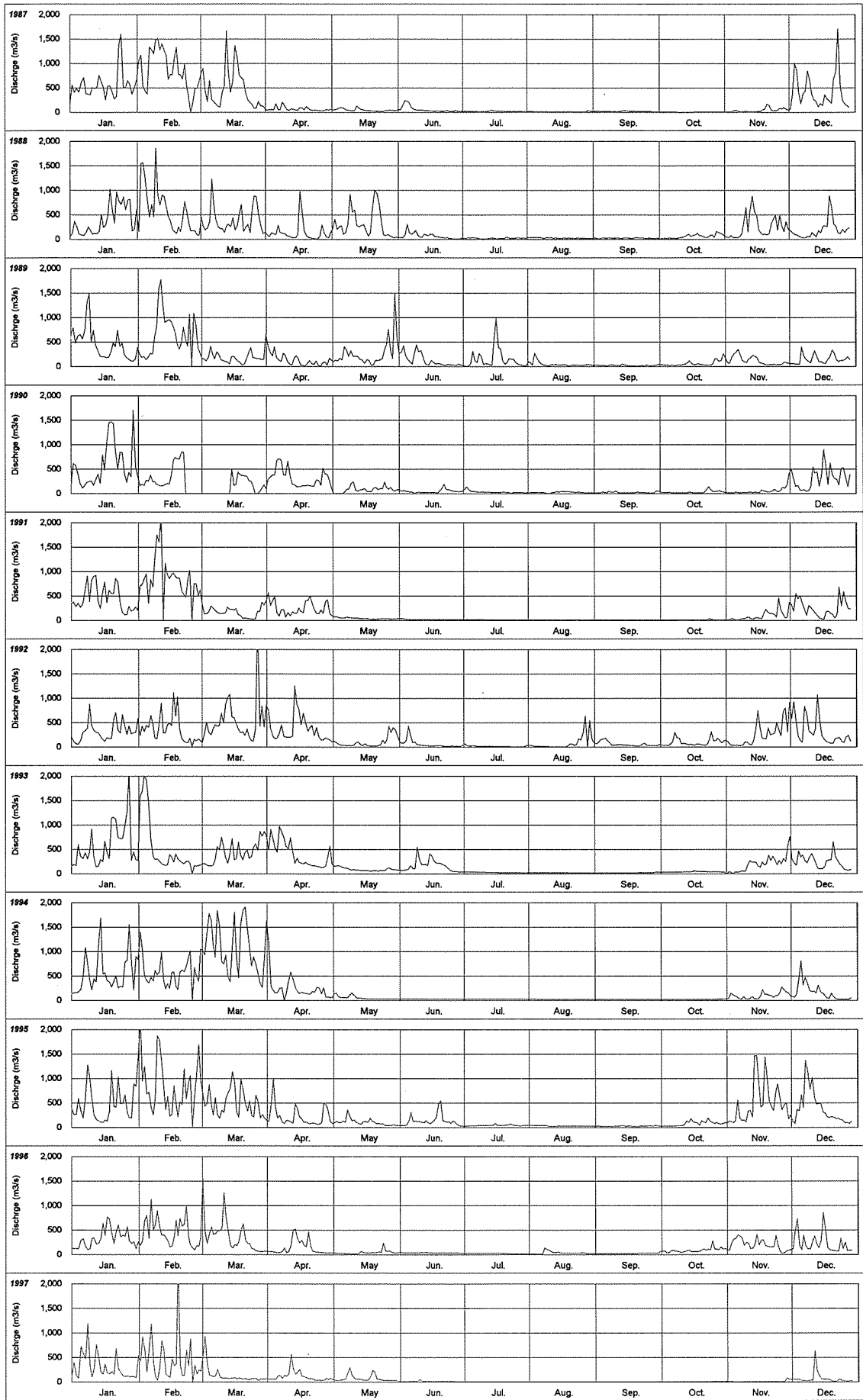


Figure 2.14 (3) Daily Discharge Hydrograph for KaJangan (1976 - 2005) (2/3)

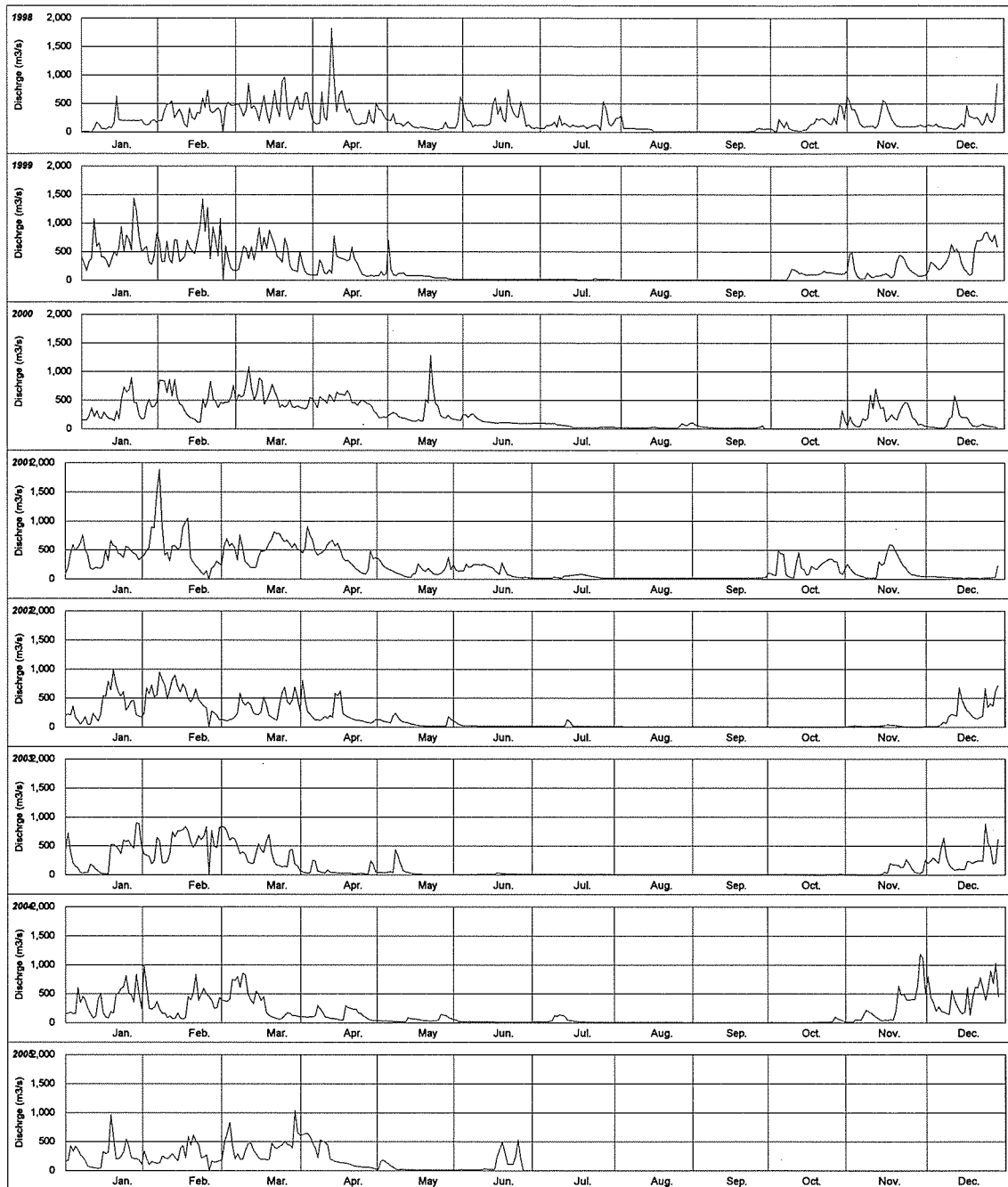
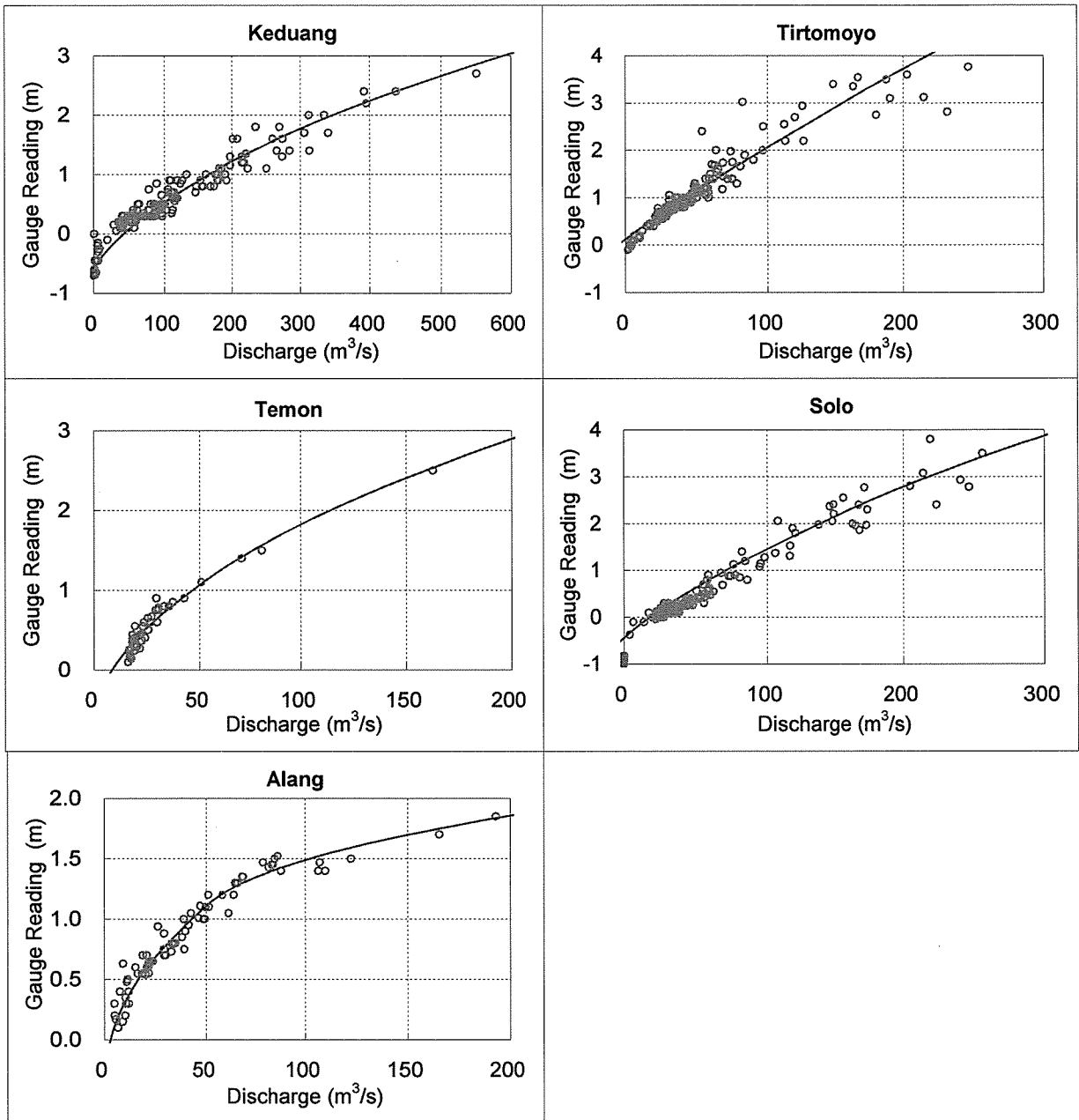
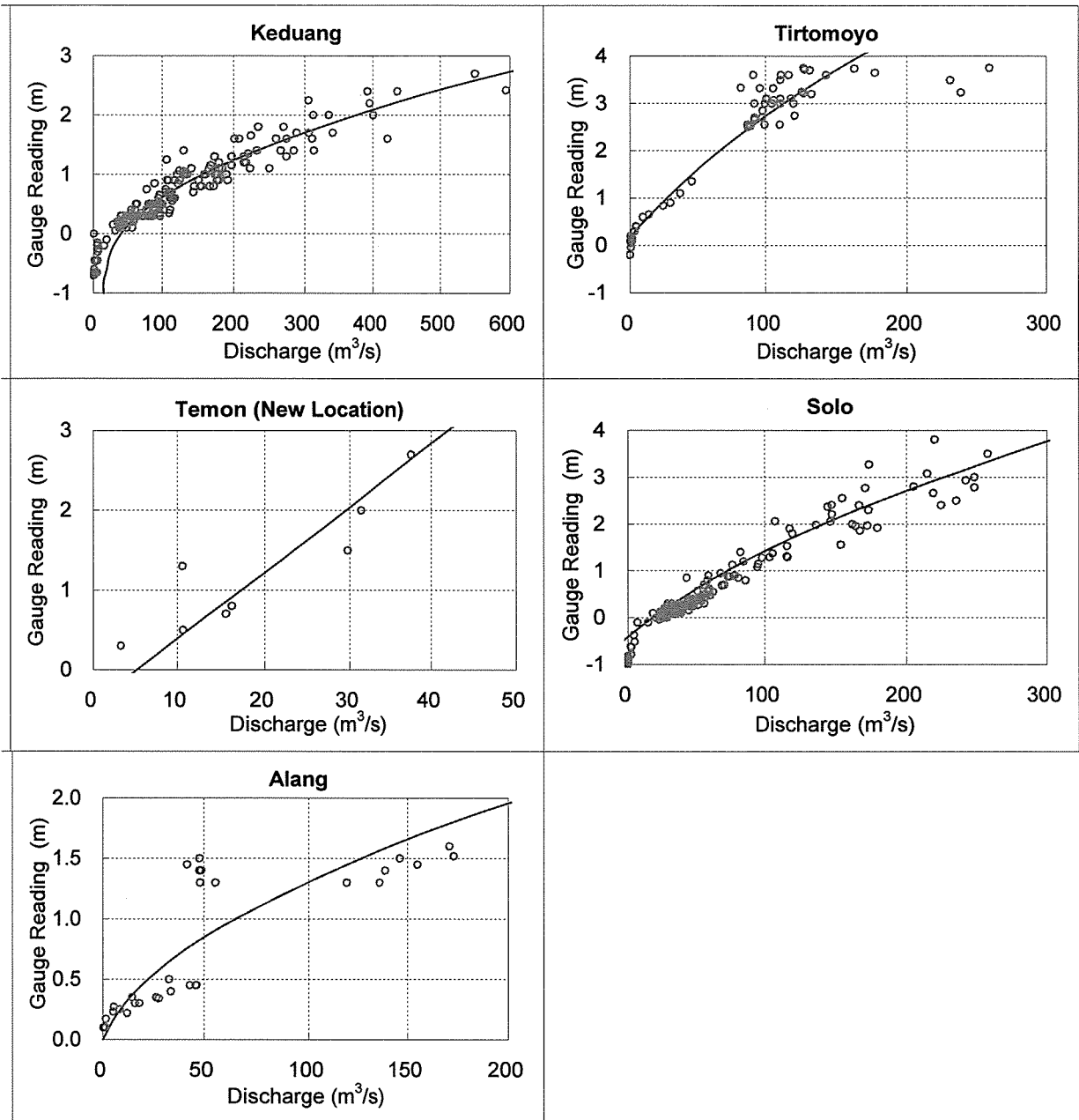


Figure 2.14 (3) Daily Discharge Hydrograph for KaJangan (1976 - 2005) (3/3)



No.	River	Nos. Samples	H-Q Curve	Correlation Coefficient
2004/2005				
1	Keduang	141	$Q = 29.763 h^2 + 92.848 h + 42.4$	0.967
2	Tirtomoyo	165	$Q = 2.434 h^2 + 46.151 h - 5.6$	0.942
3	Temon	60	$Q = 14.820 h^2 + 23.175 h + 8.512$	0.990
4	Bengawan Solo	133	$Q = 7.020 h^2 + 45.549 h + 18.6$	0.959
5	Alang	67	$Q = 24.837 h^2 + 14.690 h + 3.0$ ($h < 1.0$ m) $Q = 186.930 h^2 - 356.020 h + 215.66$ ($h \geq 1.0$ m)	0.946

Figure 3.3 (1) H-Q curve Based on the Discharge Measurement (2004/2005)



No.	River	Nos. Samples	H-Q Curve	Correlation Coefficient
2005/2006				
1	Keduang	168	$Q = 50.491 h^2 + 66.367 h + 41.0$	0.948
2	Tirtomoyo	222	$Q = 3.6956 h^2 + 28.308 h - 5.0$	0.889
3	Temon	13	$Q = 0.089 h^2 + 11.959 h + 5.300$	0.941
4	Bengawan Solo	156	$Q = 7.351 h^2 + 47.284 h + 18.0$	0.951
5	Alang	33	$Q = 38.786 h^2 + 26.073 h$	0.835

Figure 3.3 (2) H-Q curve Based on the Discharge Measurement (2005/2006)

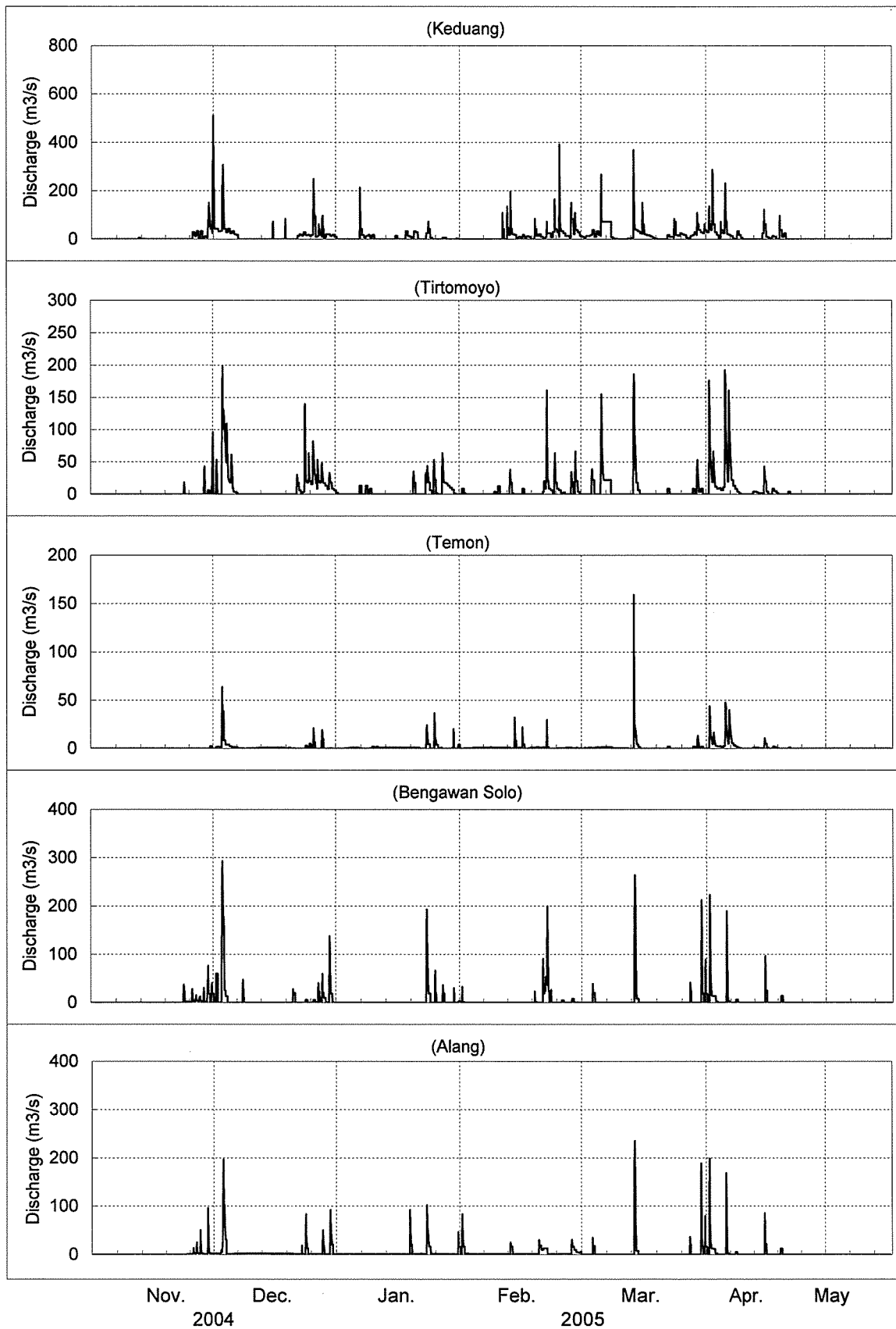


Figure 3.4 (1) Hydrograph of Observed Discharge in Major Tributaries (2004/2005)

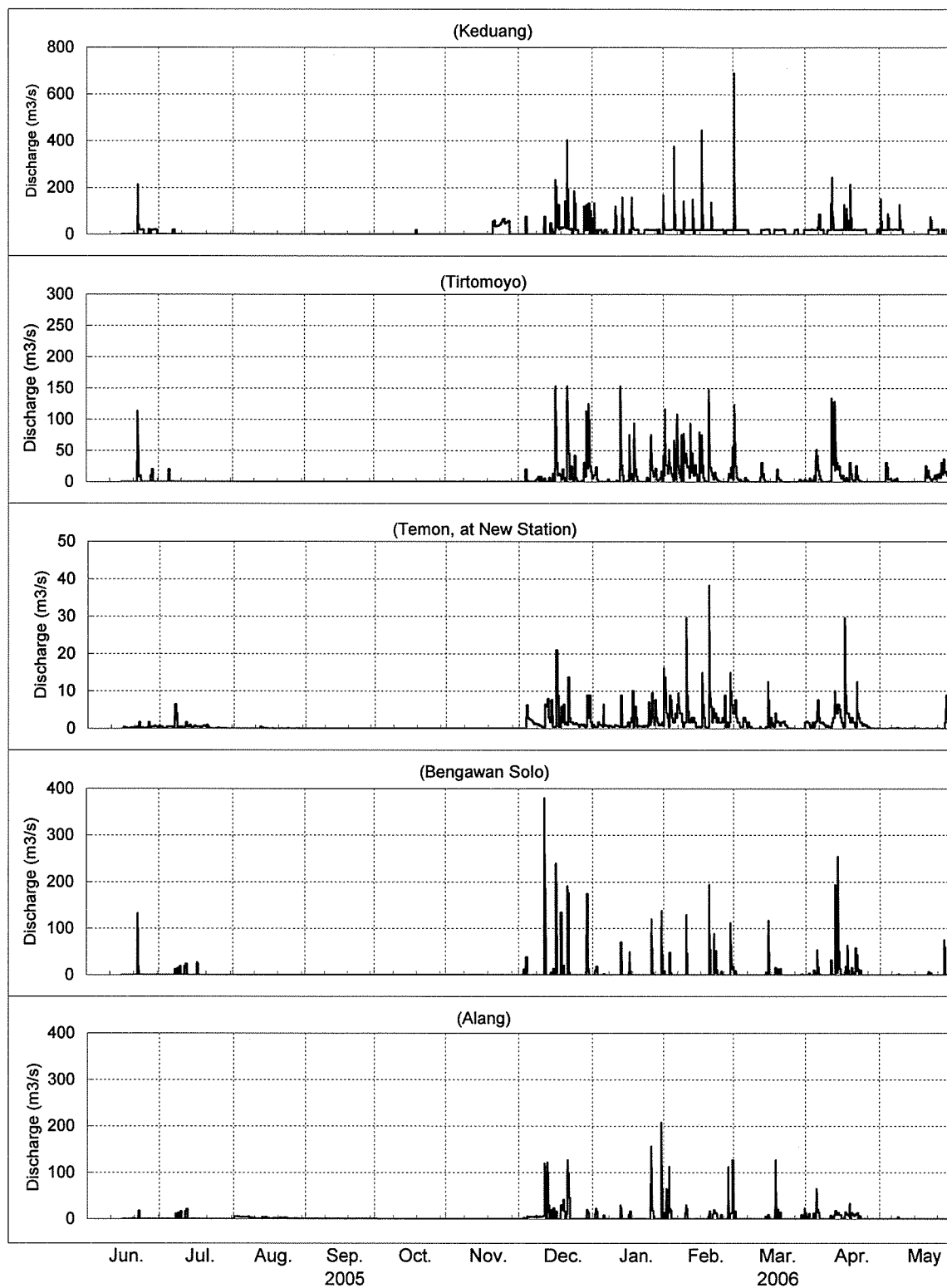
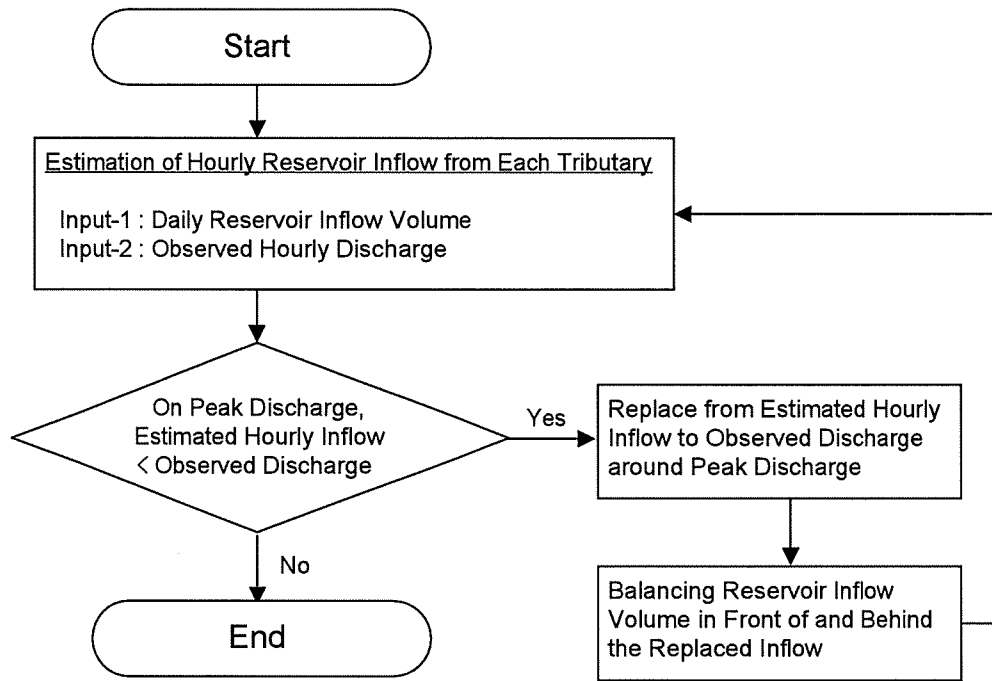
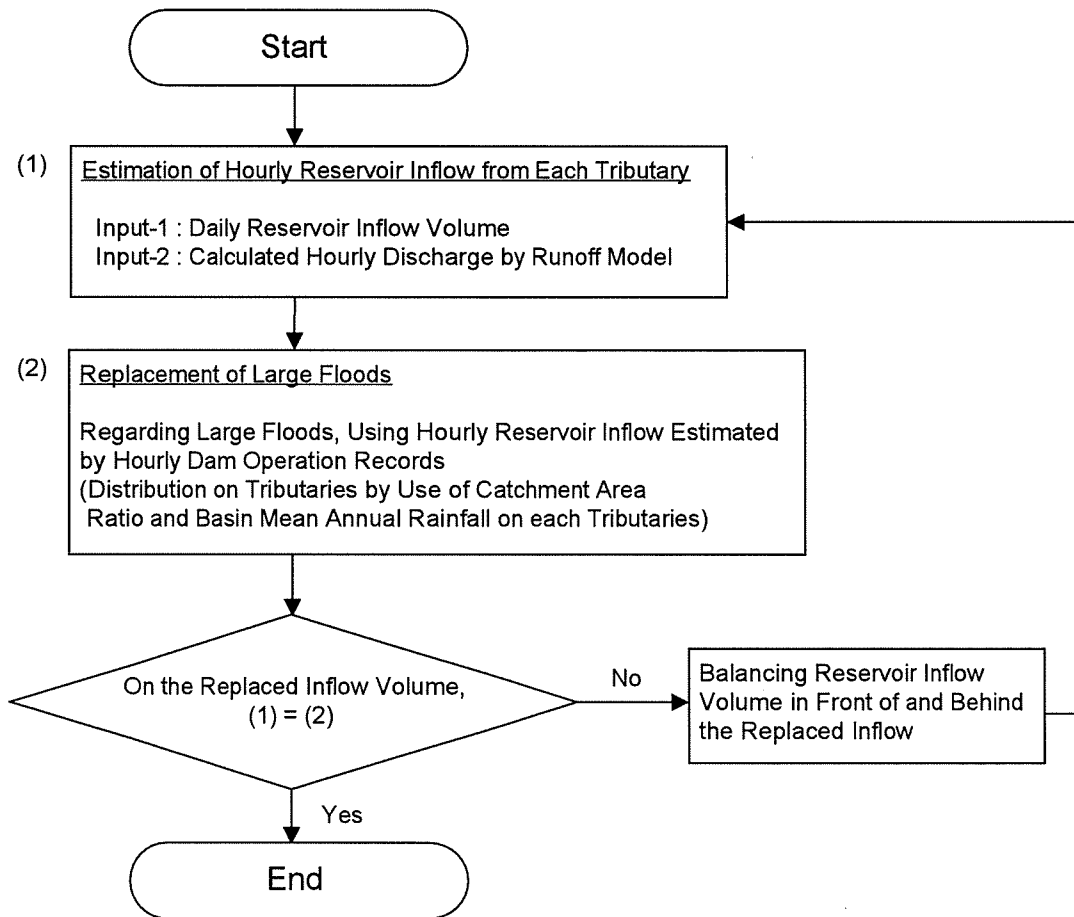


Figure 3.4 (2) Hydrograph of Observed Discharge in Major Tributaries (2005/2006)



For 2004 - 2005



For 1993 - 2004

Figure 4.5 Estimation Procedure of Hourly Reservoir Inflow

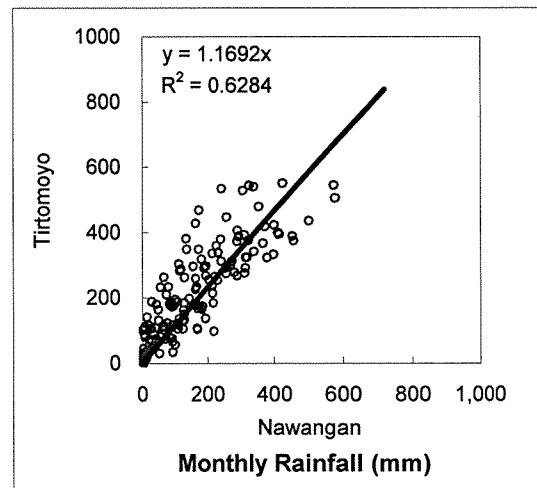
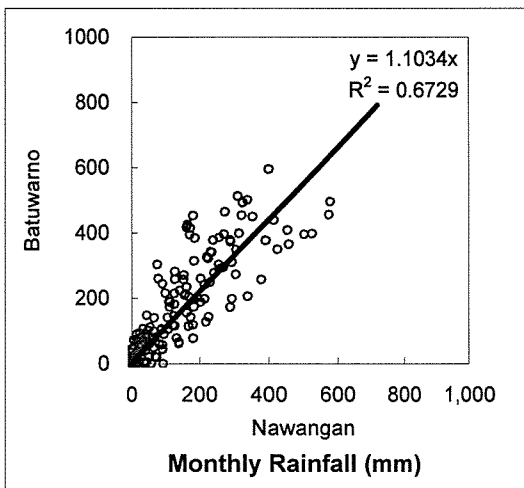
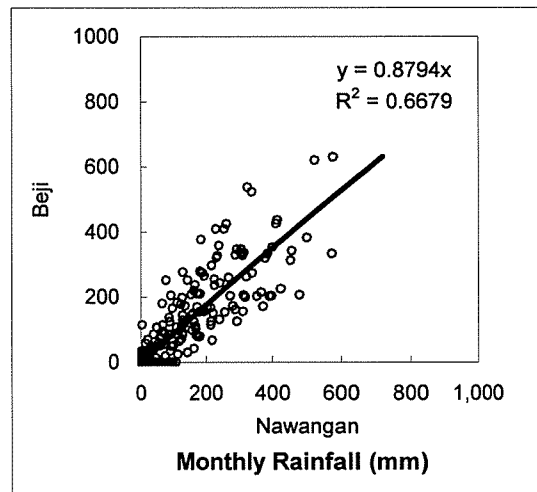
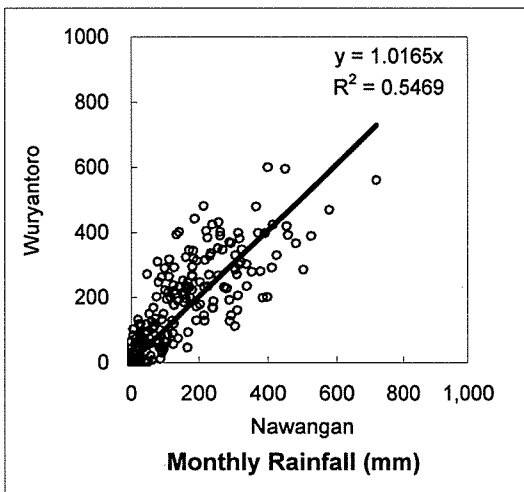
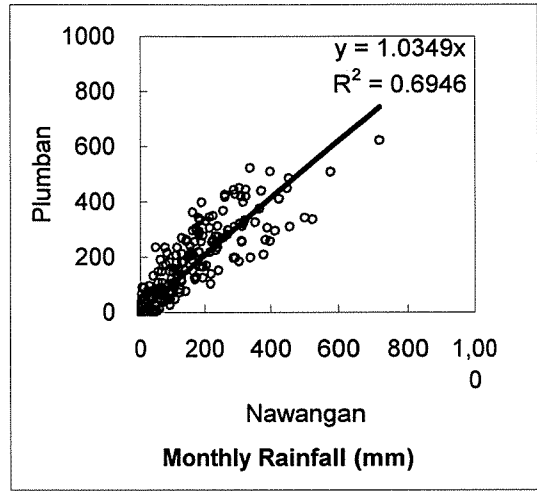
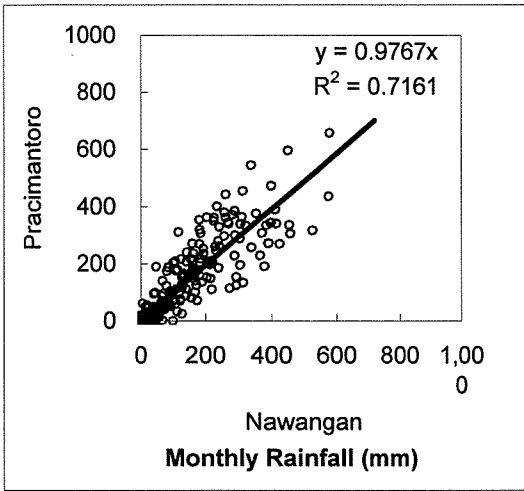


Figure 4.7 (1) Estimated Correlation Coefficient for Each Station (Nawangan and Target Station) (1/3)

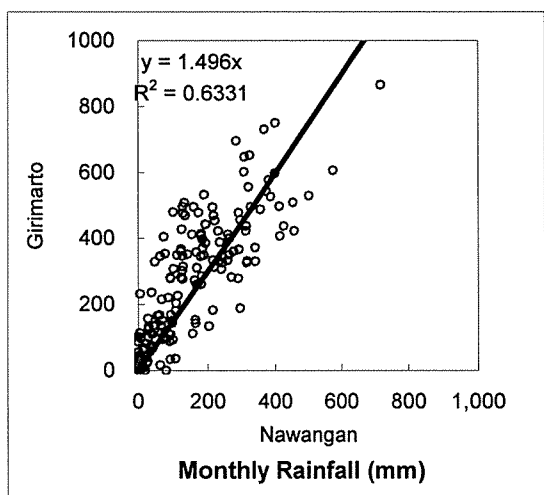
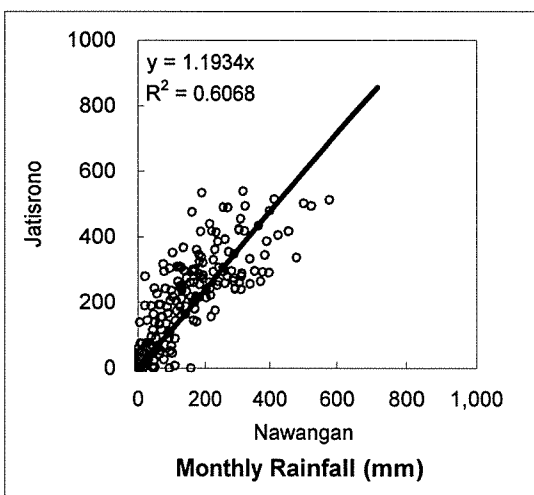
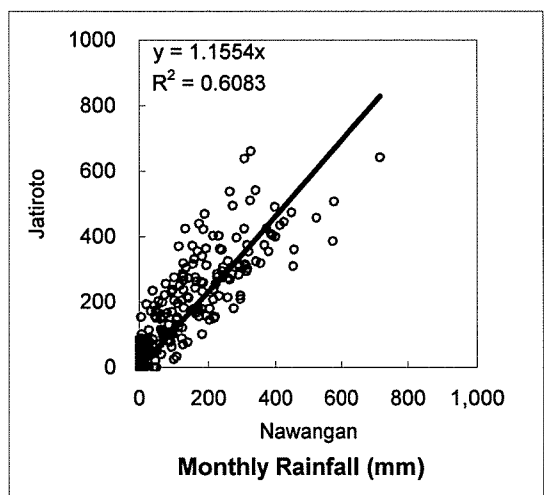
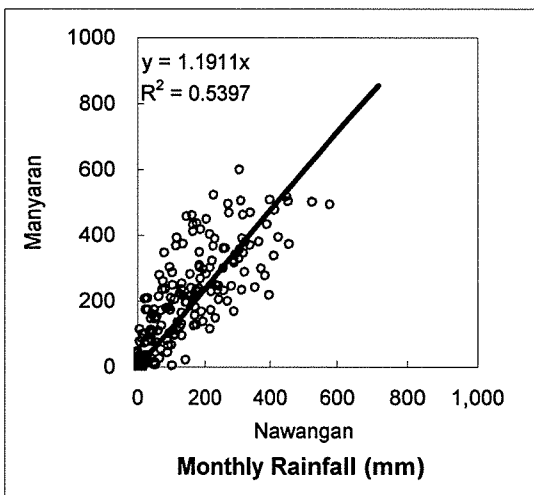
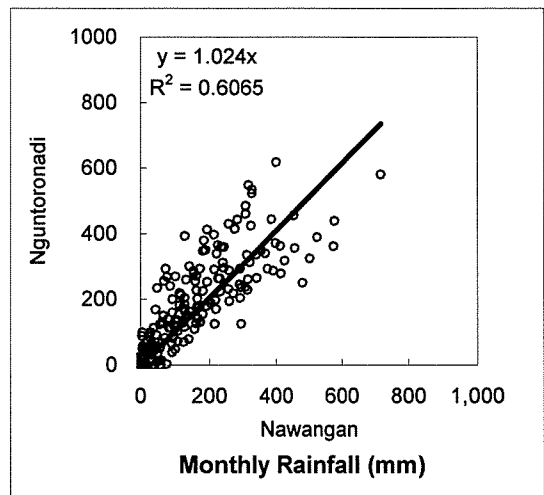
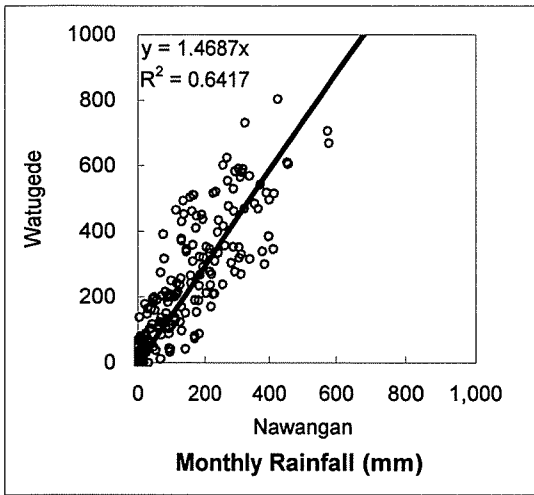


Figure 4.7 (1) Estimated Correlation Coefficient for Each Station (Nawangan and Target Station) (2/3)

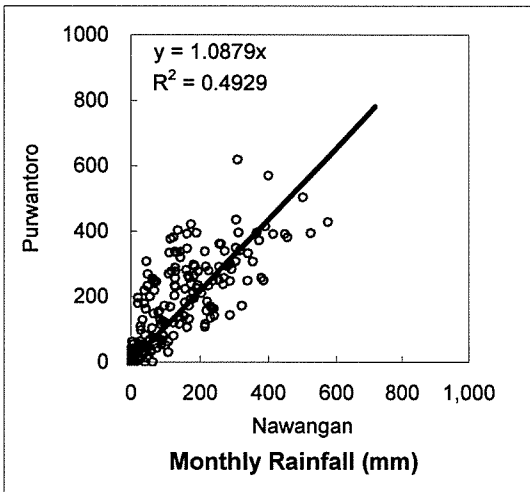
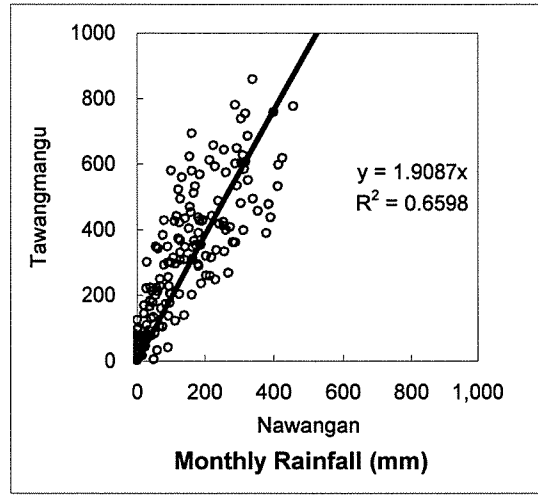
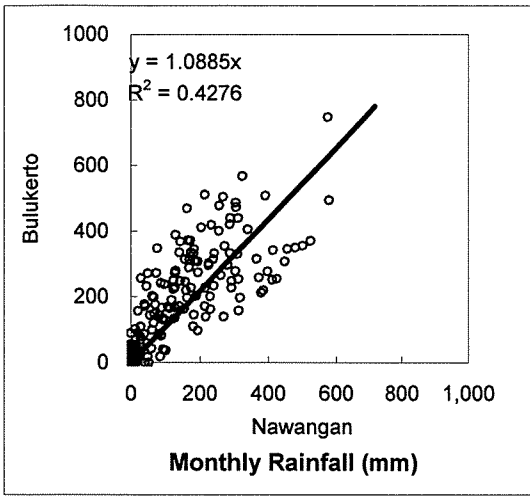


Figure 4.7 (1) Estimated Correlation Coefficient for Each Station (Nawangan and Target Station) (3/3)

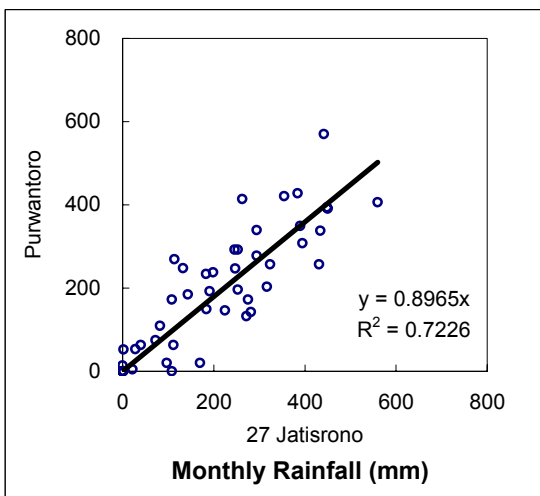
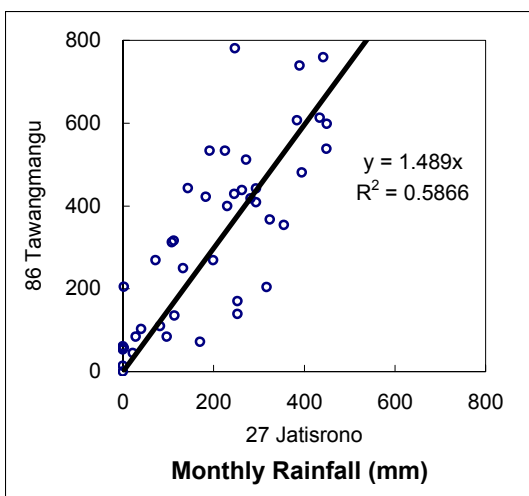
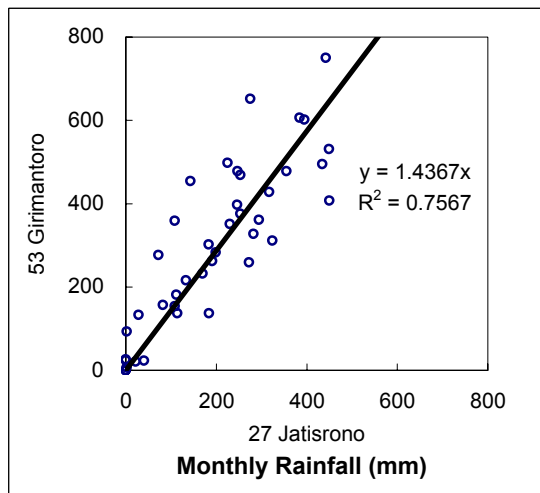
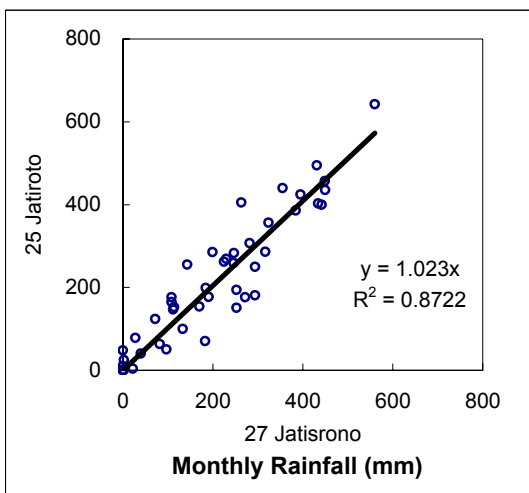
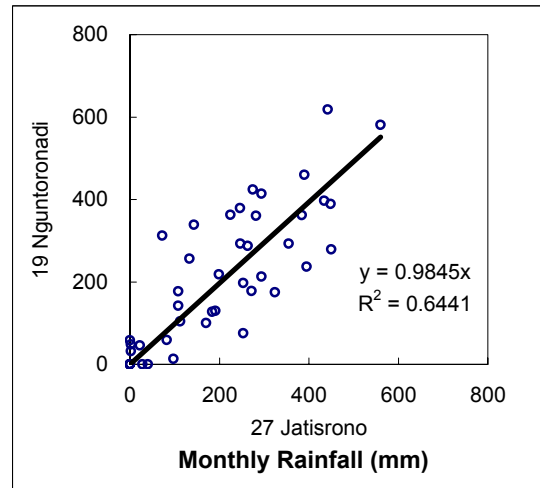
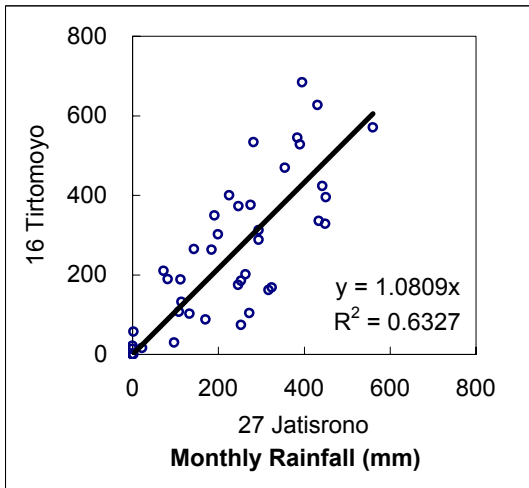


Figure 4.7 (2) Estimated Correlation Coefficient for Each Station (Jatisrono and Target Station)

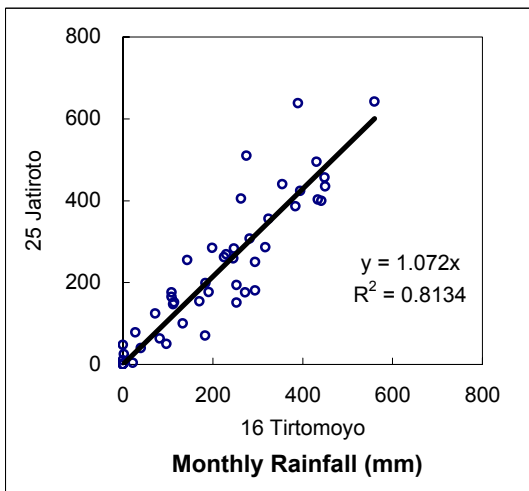
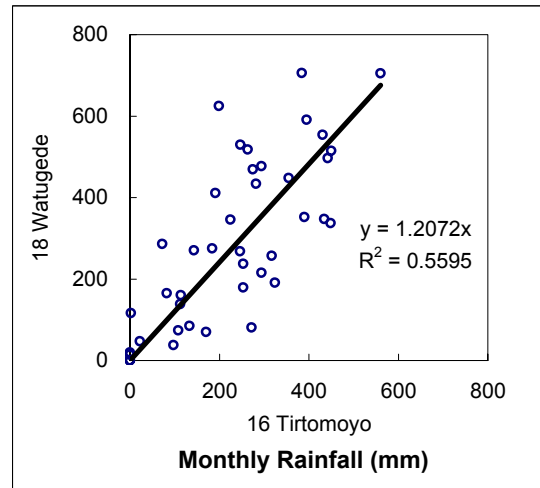
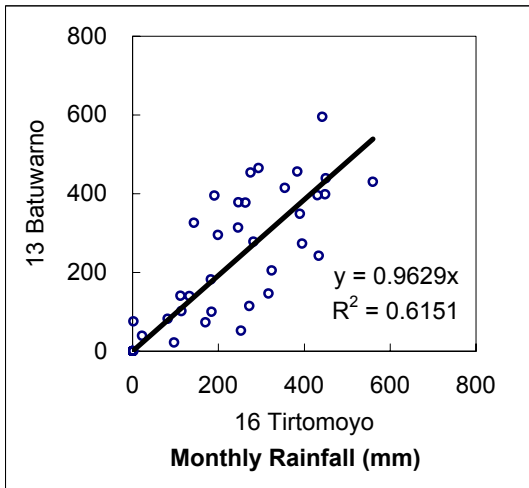
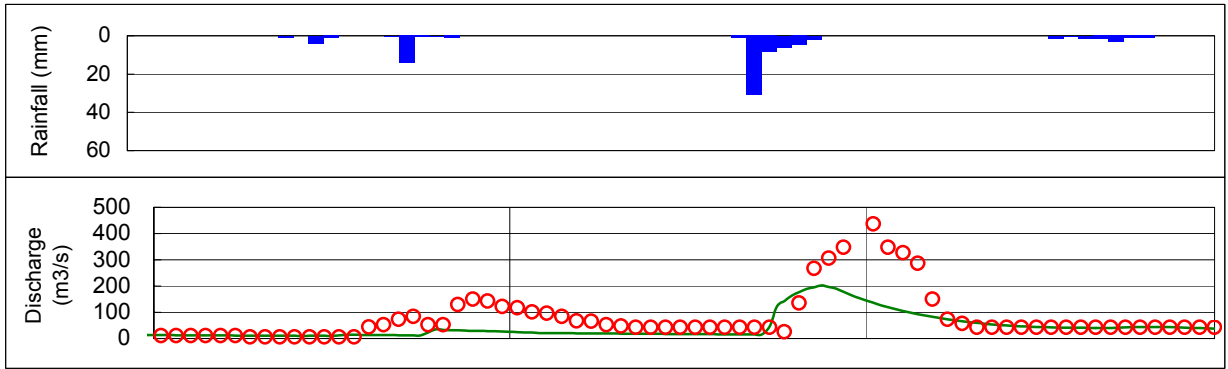
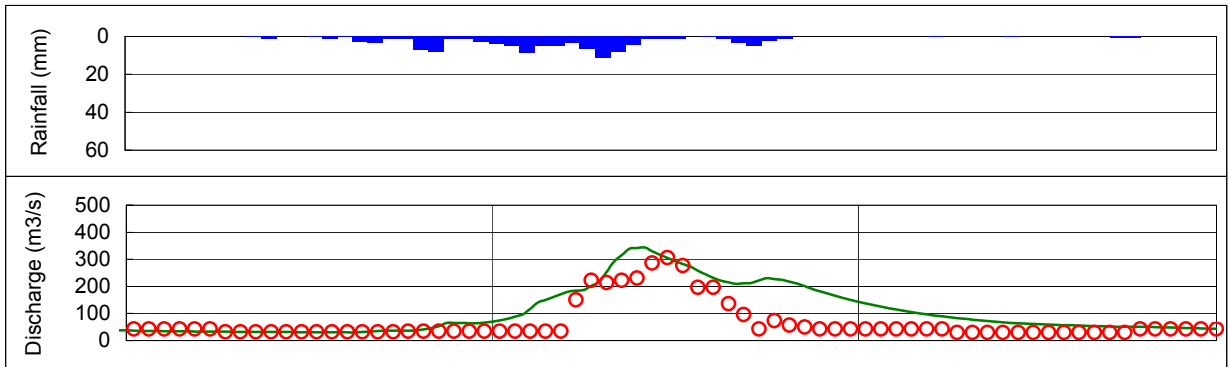


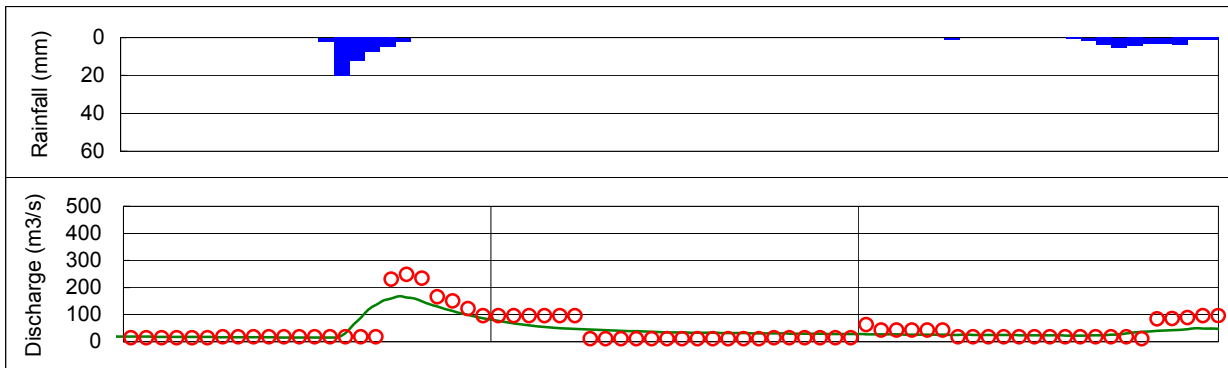
Figure 4.7 (3) Estimated Correlation Coefficient for Each Station (Tirtomoyo and Target Station)



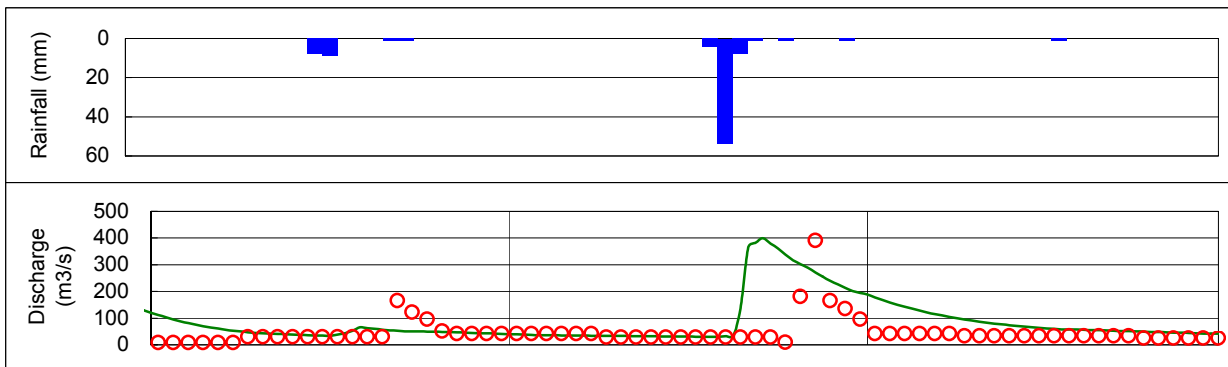
Nov. 29 - Dec. 01 in 2004



Dec. 02 - 04 in 2004



Dec. 25 - 27 in 2004



Mar. 30 - Apr. 01 in 2005

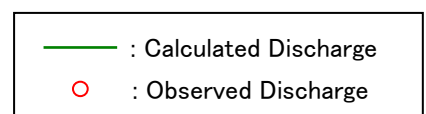
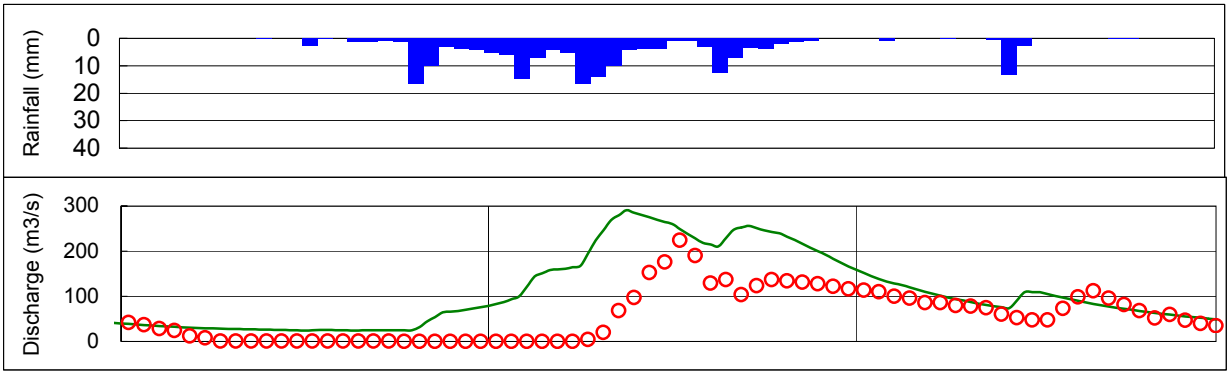
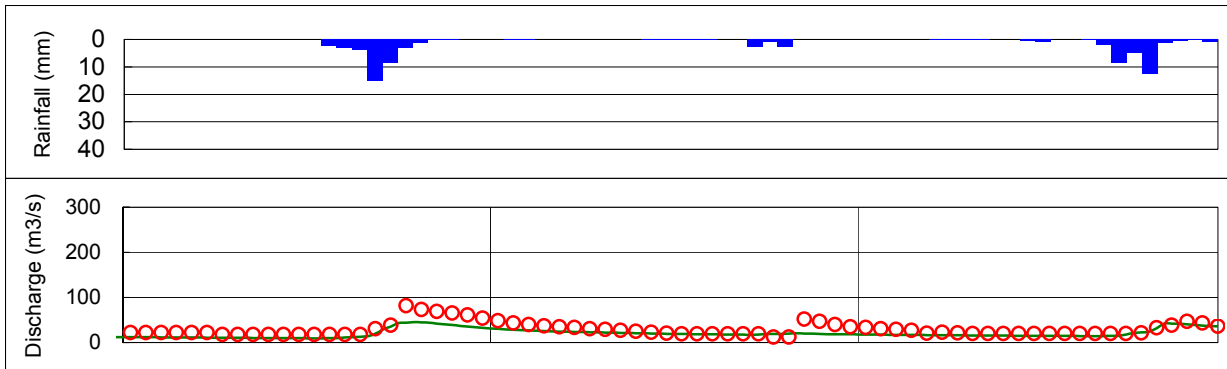


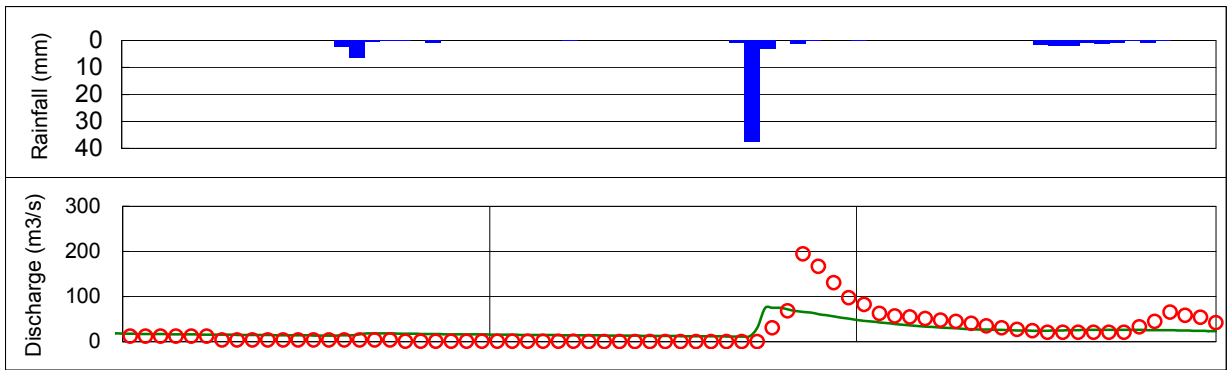
Figure 4.11 (1) Calibration of Runoff Model at Keduang River



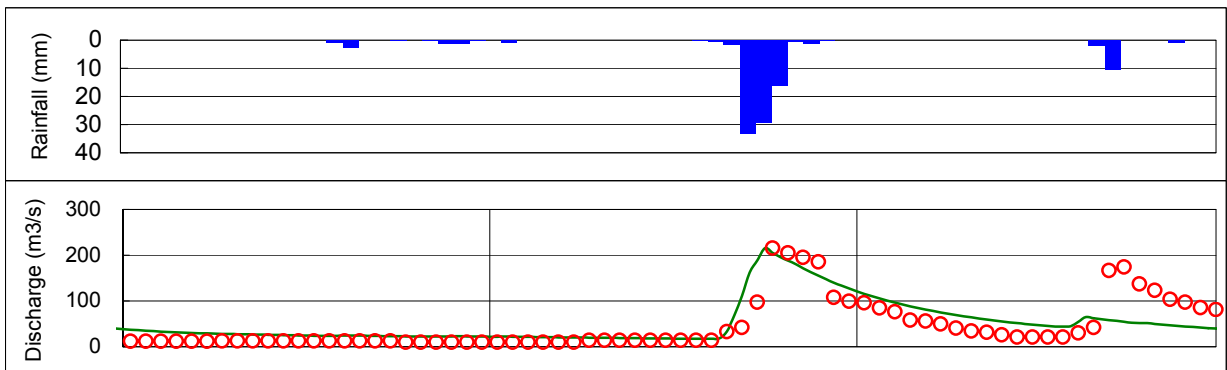
Dec. 02 - 04 in 2004



Dec. 25 - 27 in 2004



Mar. 30 - Apr. 01 in 2005



Apr. 03 - 05 in 2005

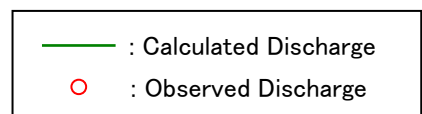
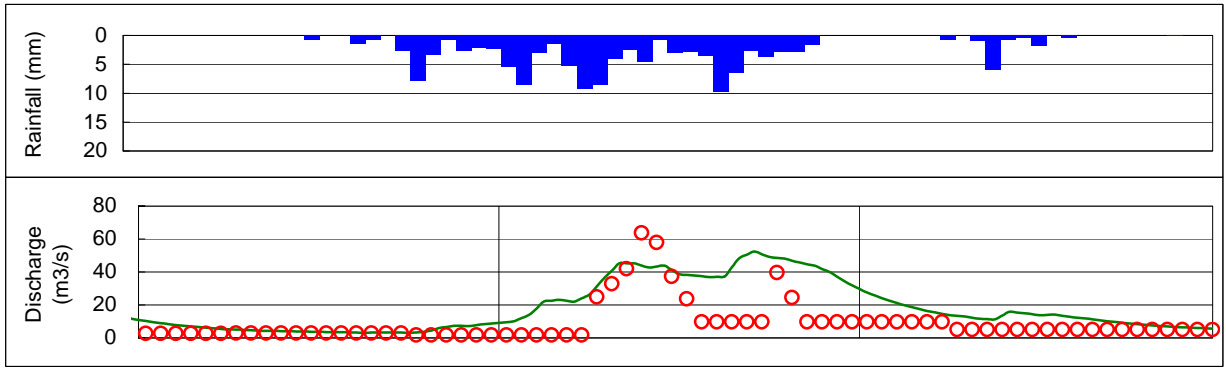
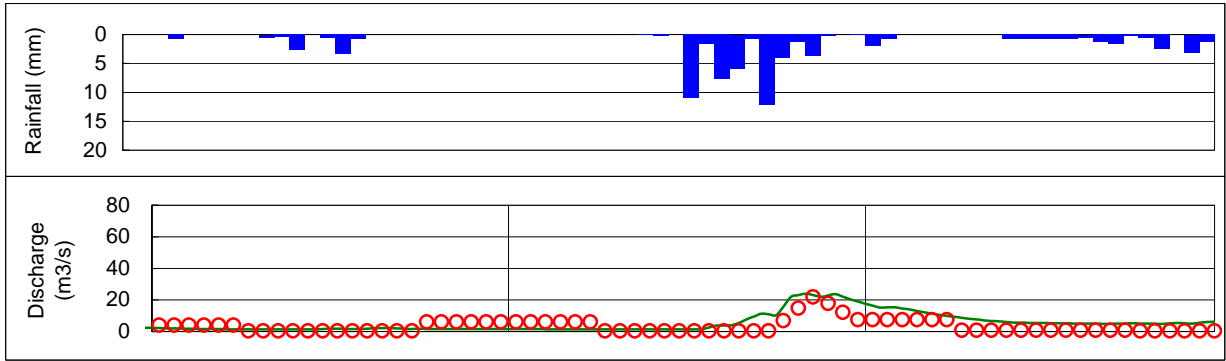


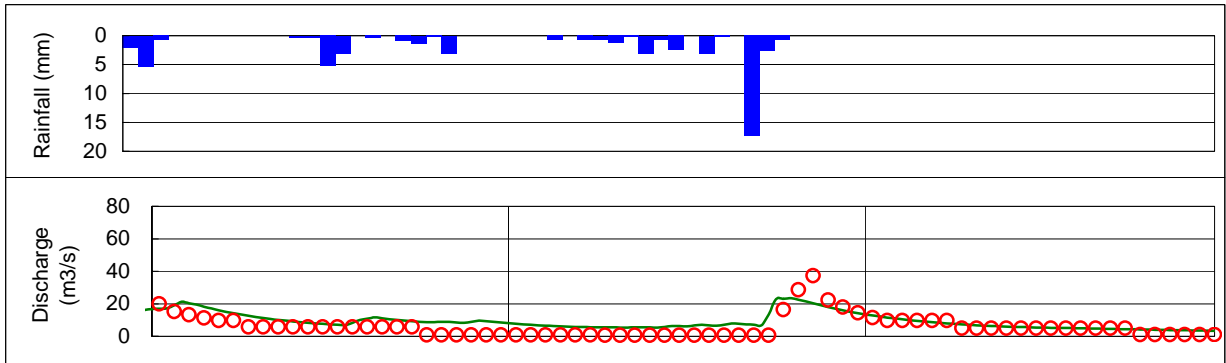
Figure 4.11 (2) Calibration of Runoff Model at Tirtomoyo River



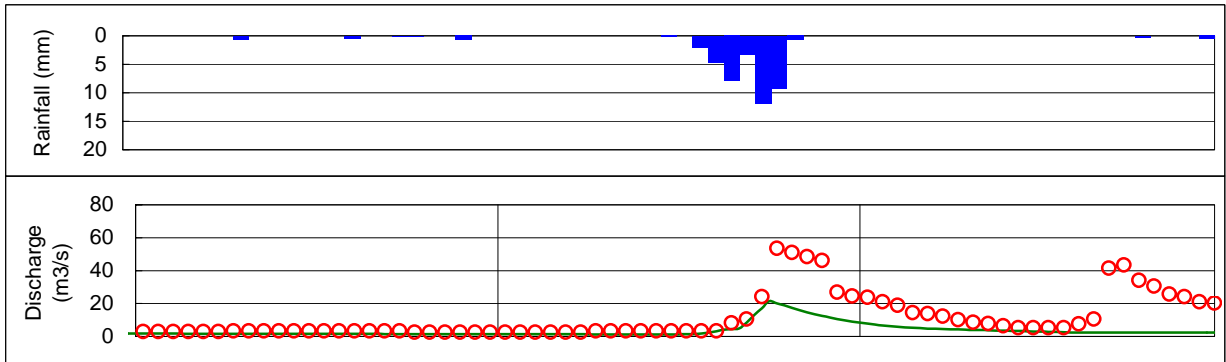
Dec. 02 - 04 in 2004



Dec. 24 - 26 in 2004



Jan. 22-24 in 2005



Apr. 03 - 05 in 2005

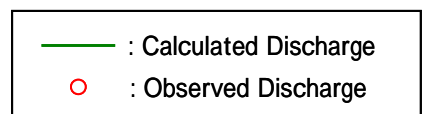
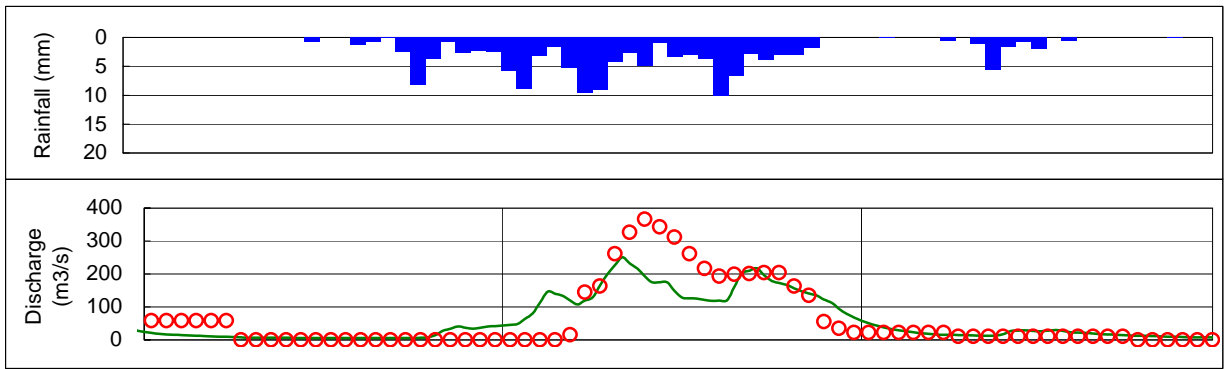
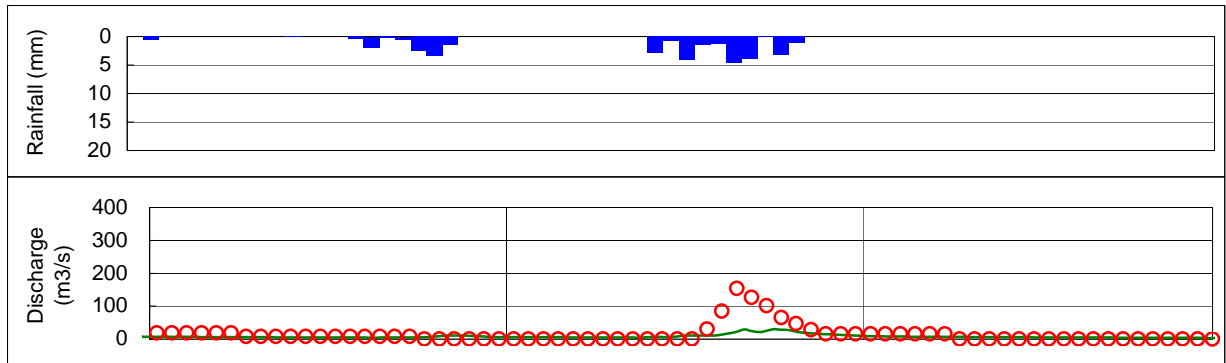


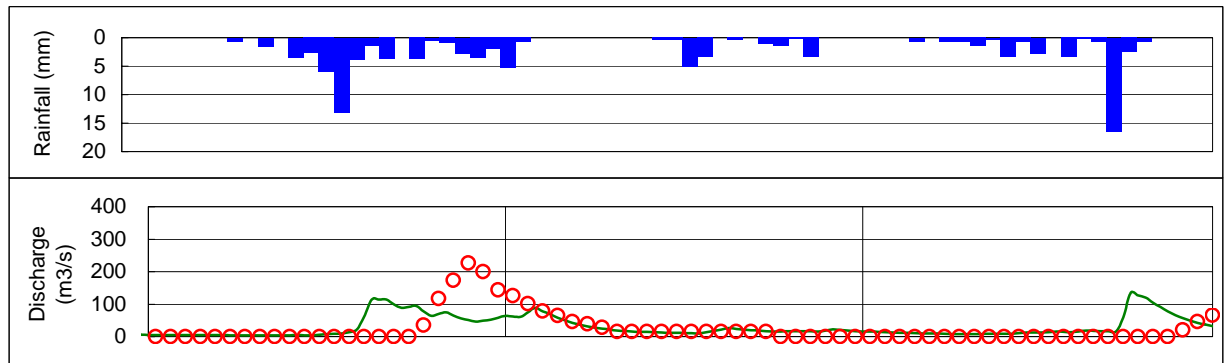
Figure 4.11 (3) Calibration of Runoff Model at Temon River



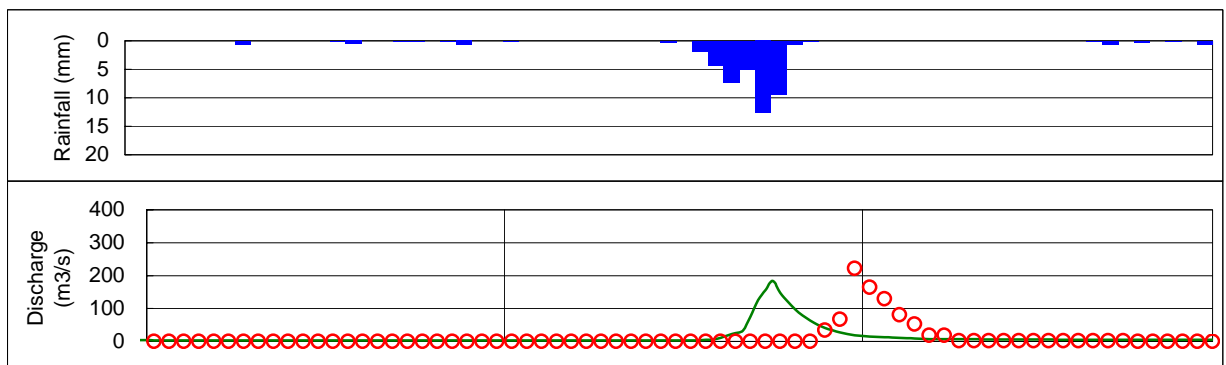
Dec. 02 - 04 in 2004



Dec. 28 - 30 in 2004



Jan. 21-23 in 2005



Apr. 03 - 05 in 2005

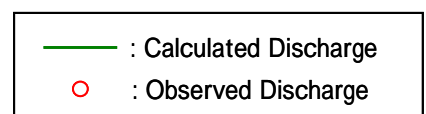
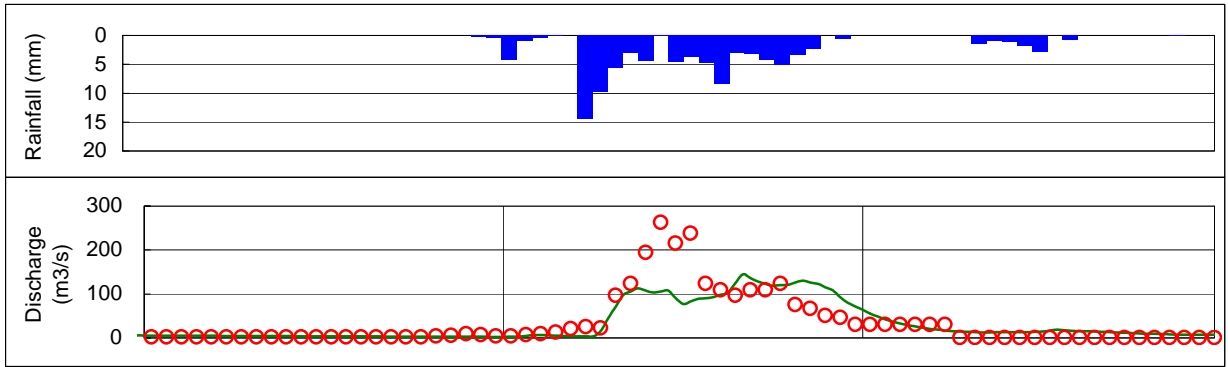
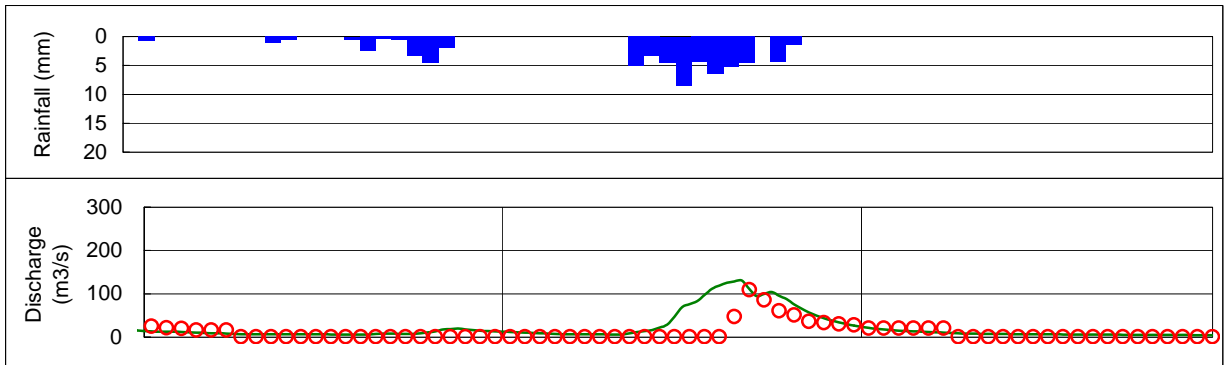


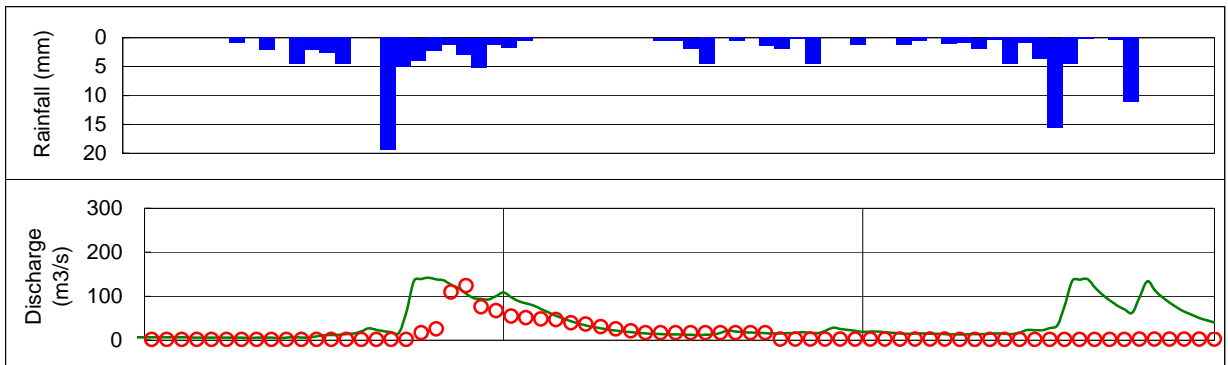
Figure 4.11 (4) Calibration of Runoff Model at Bengawan Solo



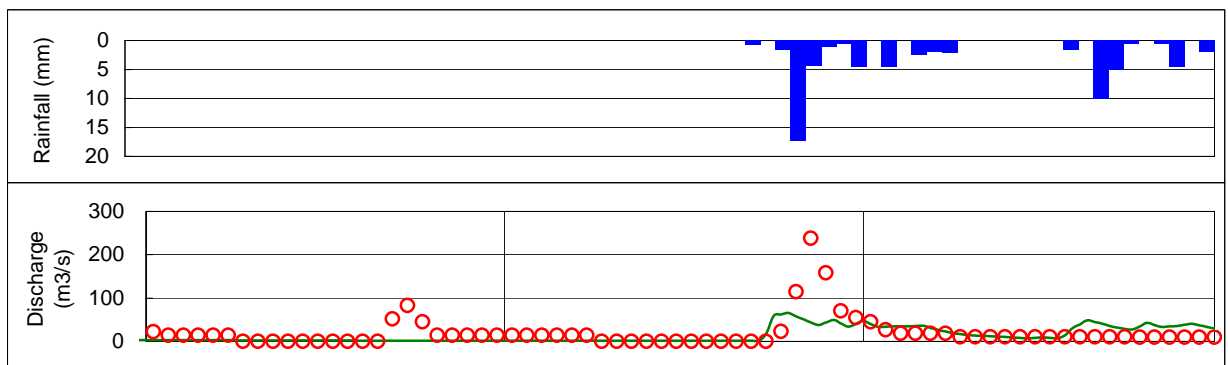
Dec. 02 - 04 in 2004



Dec. 28 - 30 in 2004



Jan. 21-23 in 2005



Mar. 30 - Apr. 01 in 2005

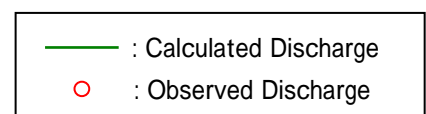


Figure 4.11 (5) Calibration of Runoff Model at Alang River

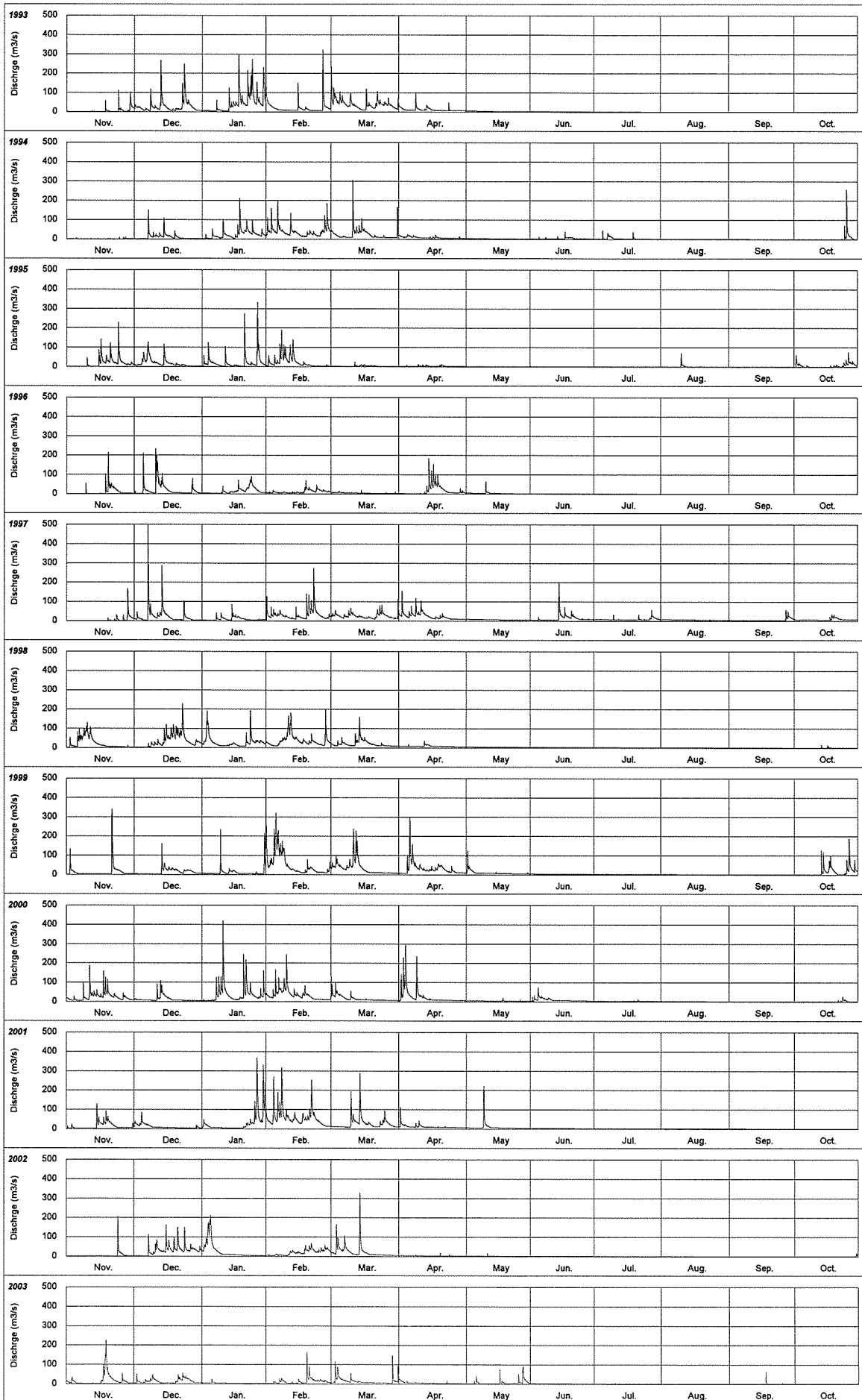


Figure 4.12 (1) Calculated Hourly Discharge by Runoff Model at Gauge Station in Keduang River (Nov. 1993 - Oct. 2004)

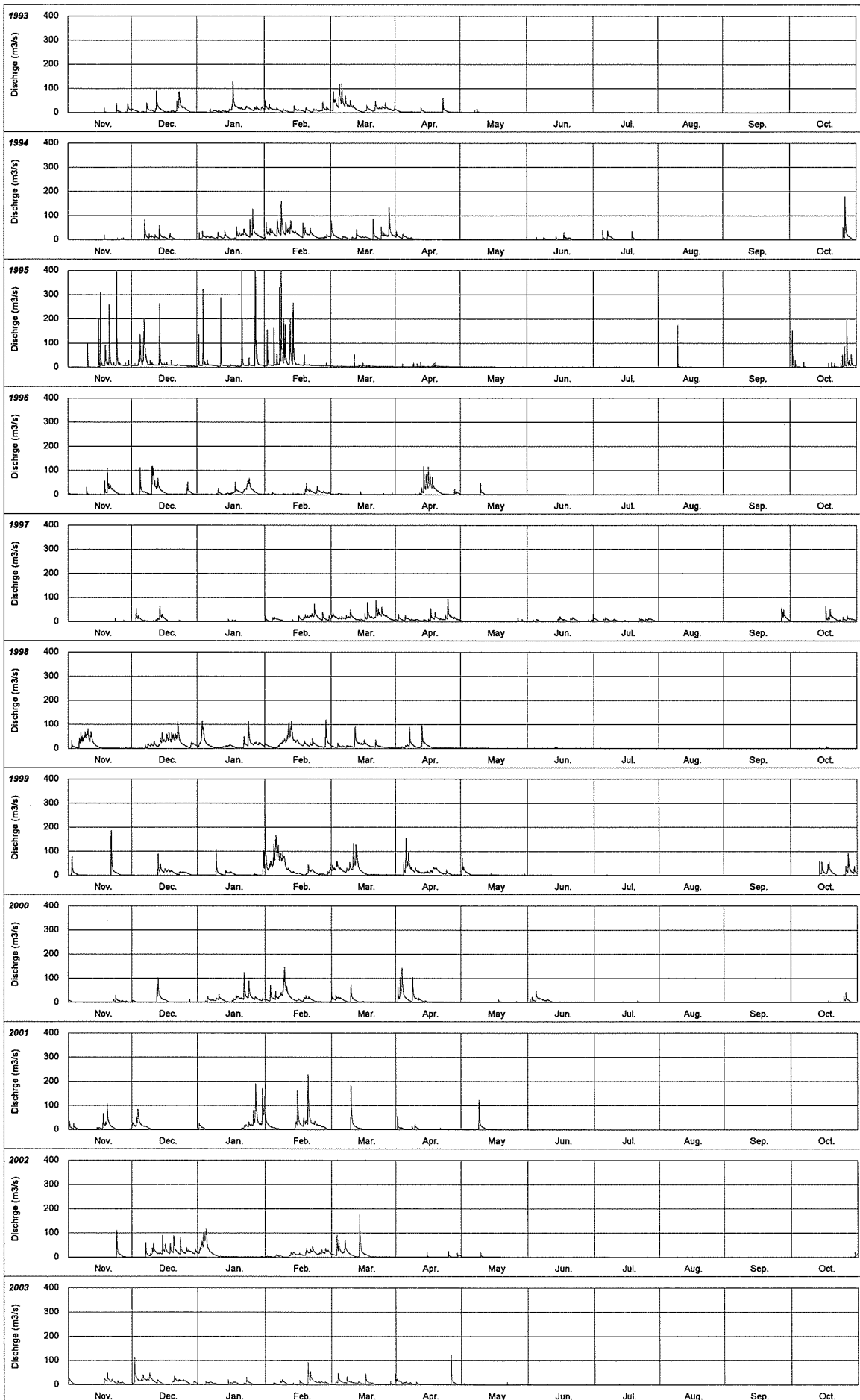


Figure 4.12 (2) Calculated Hourly Discharge by Runoff Model at Gauge Station in Tirtomoyo River (Nov. 1993 - Oct. 2004)

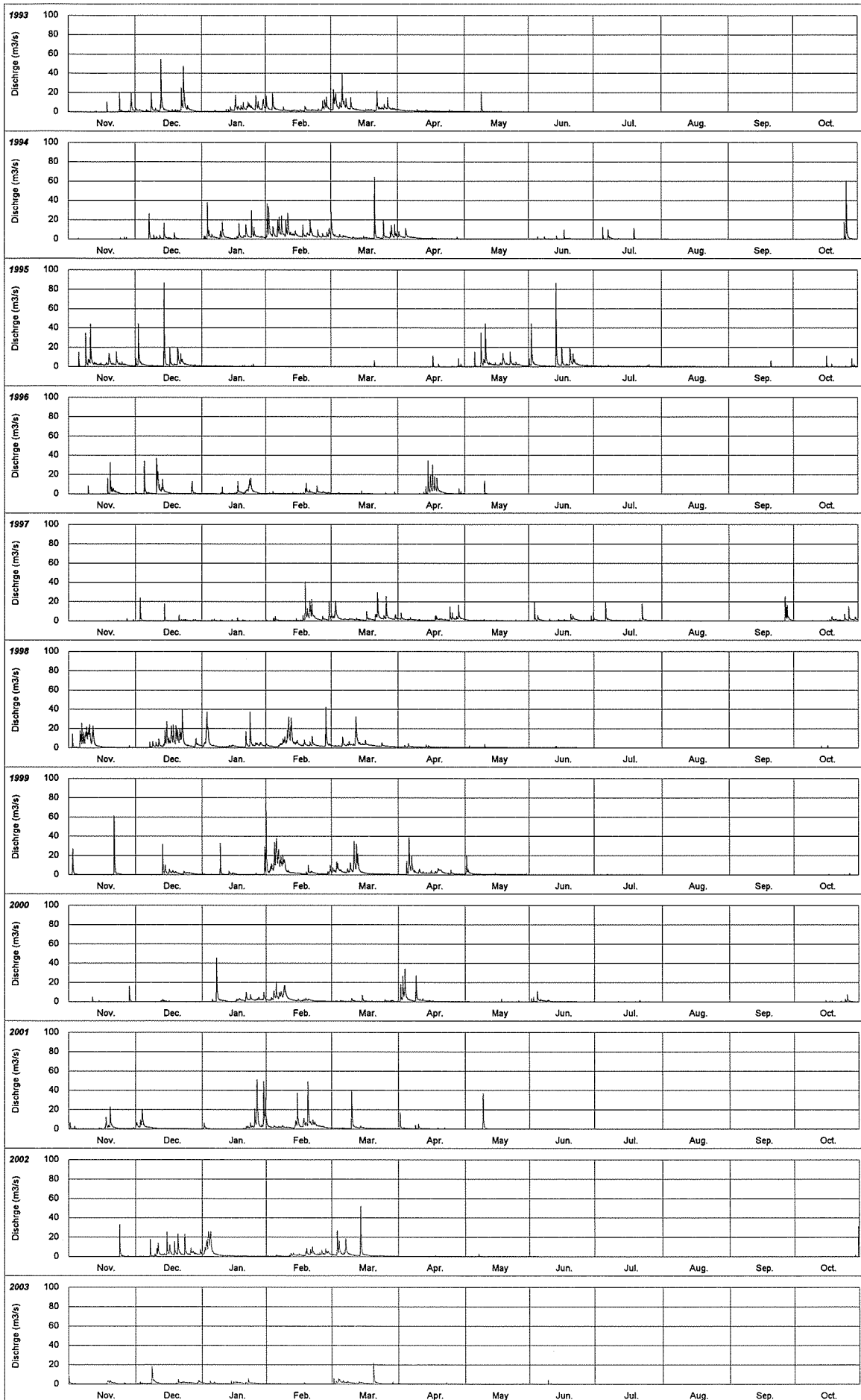


Figure 4.12 (3) Calculated Hourly Discharge by Runoff Model at Gauge Station in Temon River (Nov. 1993 - Oct. 2004)

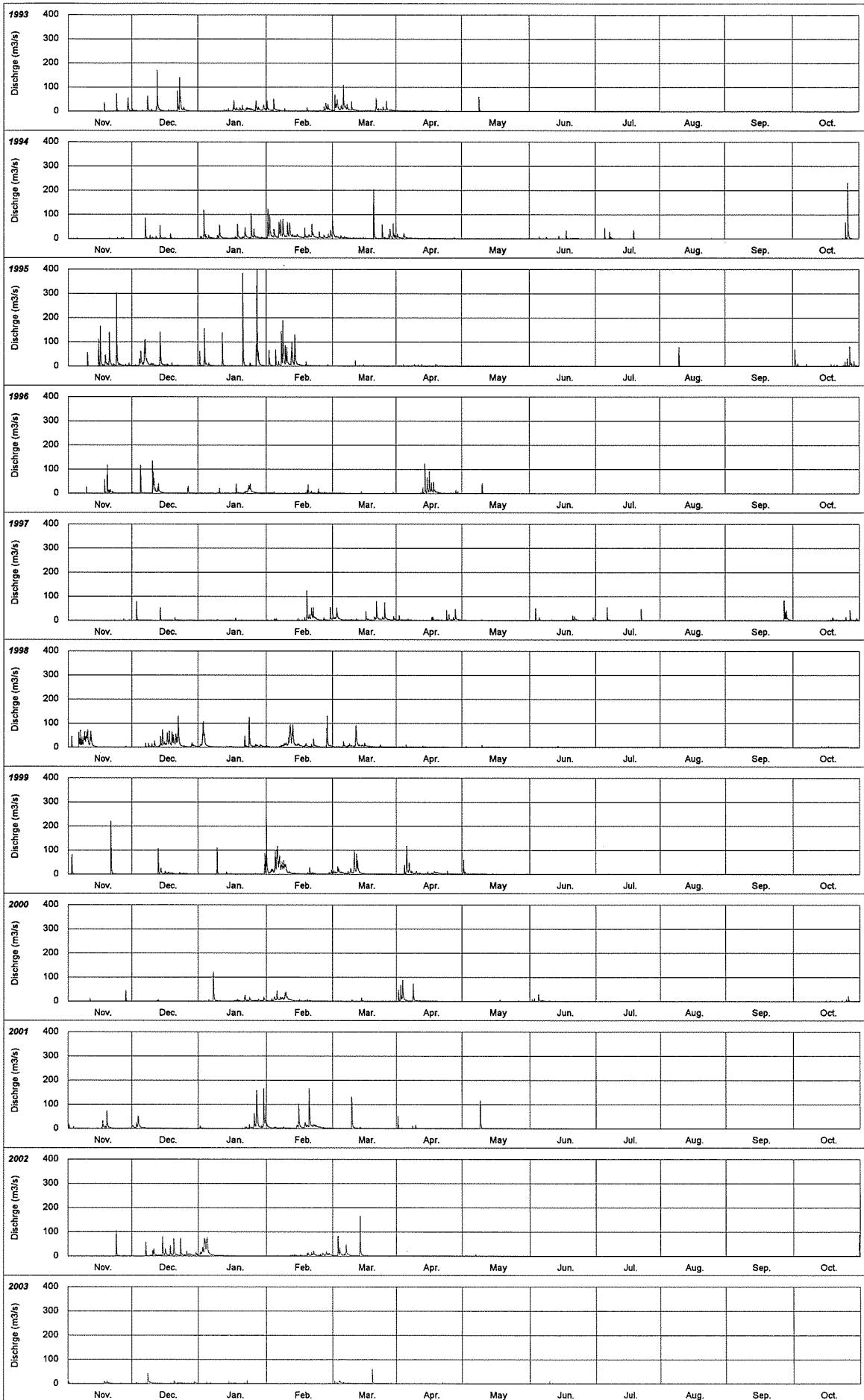


Figure 4.12 (4) Calculated Hourly Discharge by Runoff Model at Gauge Station in Bengawan Solo (Nov. 1993 - Oct. 2004)

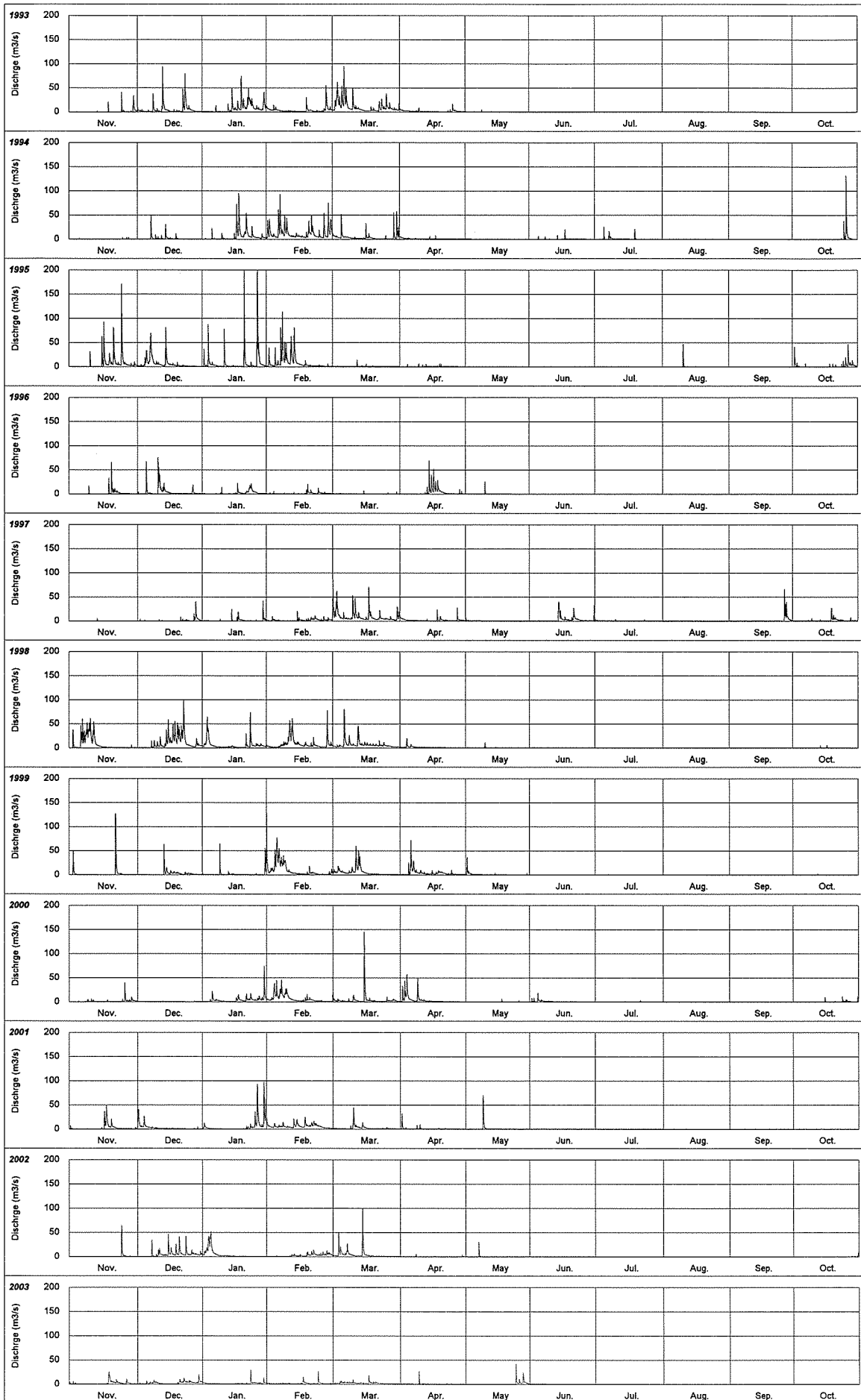


Figure 4.12 (5) Calculated Hourly Discharge by Runoff Model at Gauge Station in Alang River (Nov. 1993 - Oct. 2004)

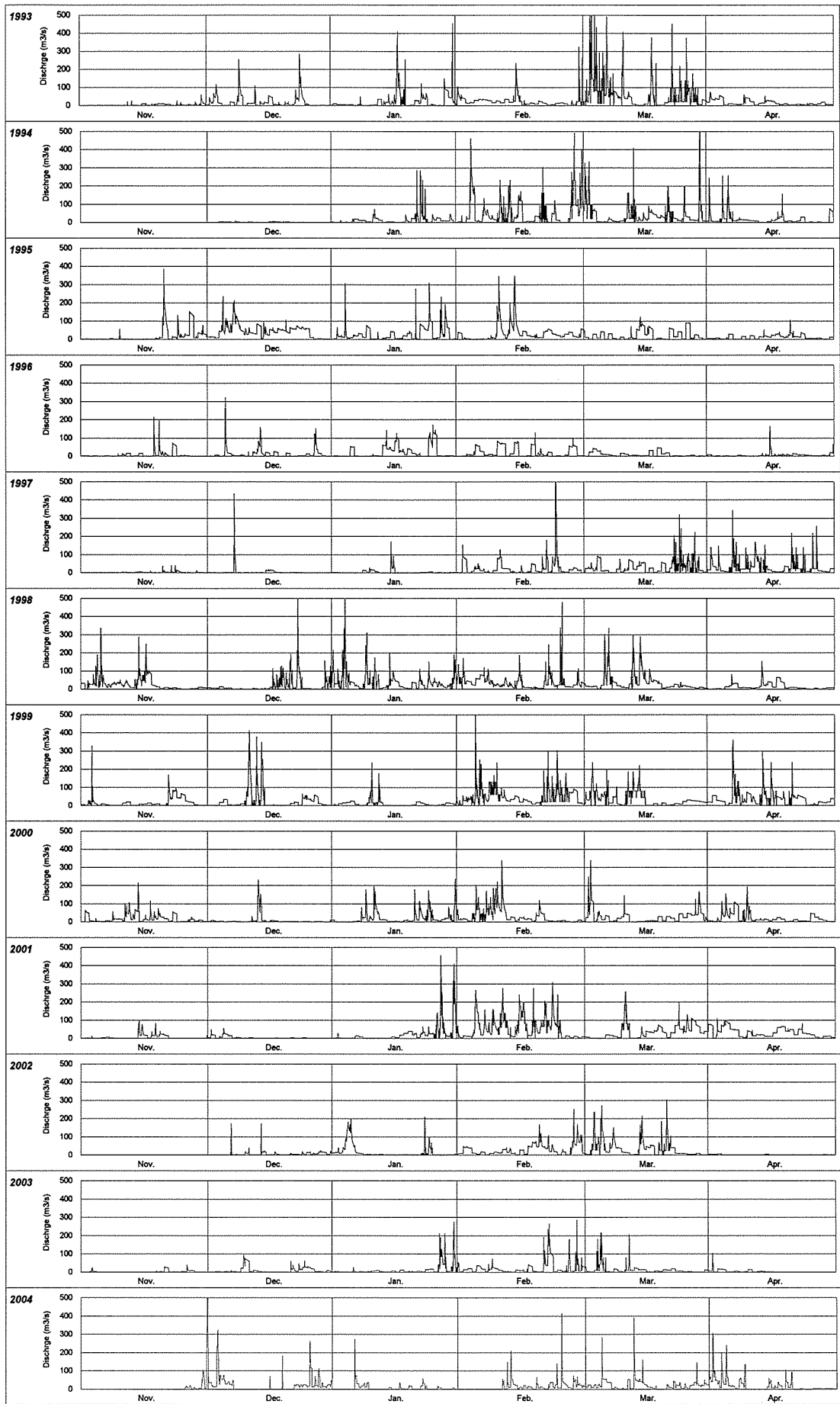


Figure 4.13 (1) Estimated Hourly Discharge Hydrograph for Keduang River (Nov. 1993 - Apr. 2005)

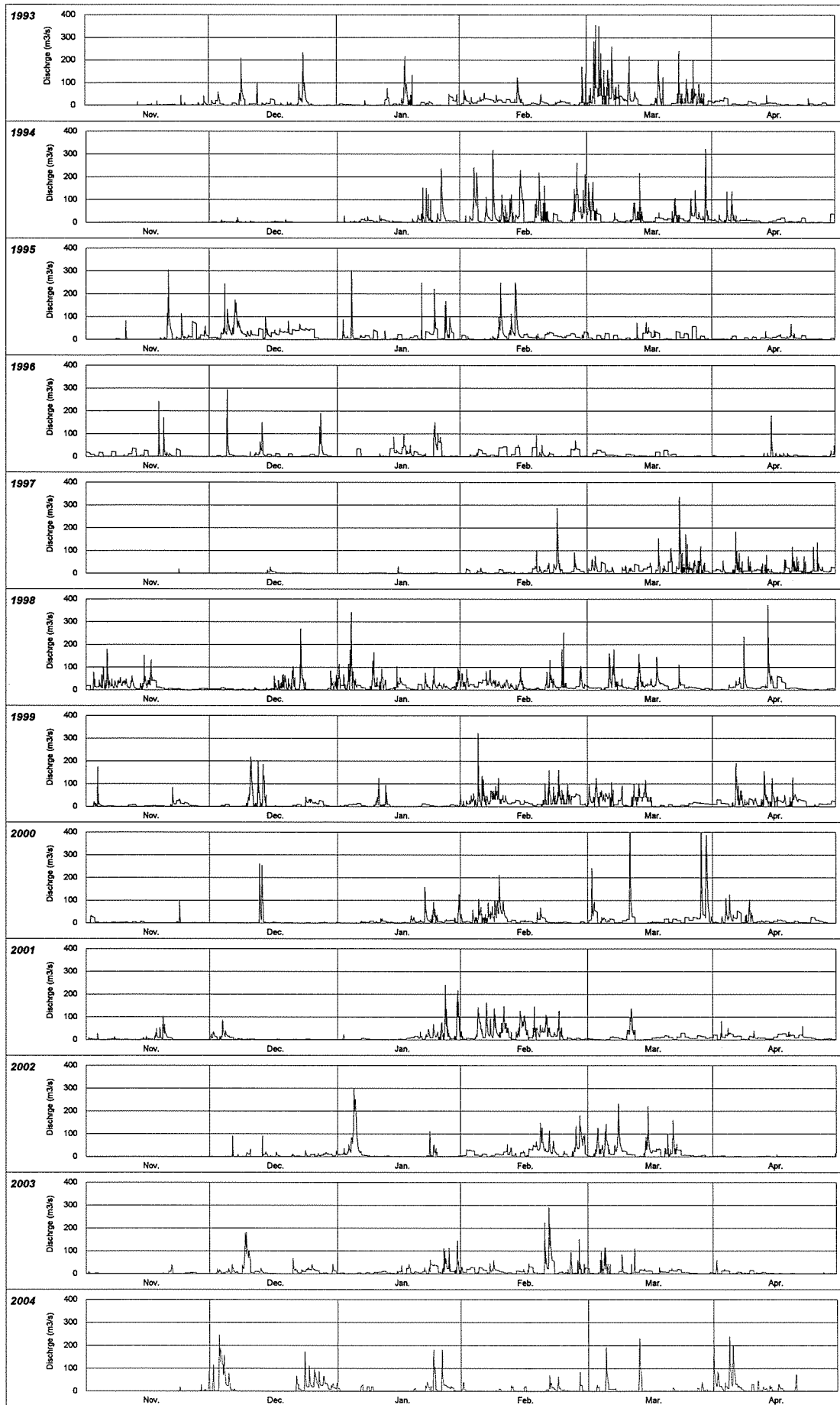


Figure 4.13 (2) Estimated Hourly Discharge Hydrograph for Tirtomoyo River (Nov. 1993 - Apr. 2005)

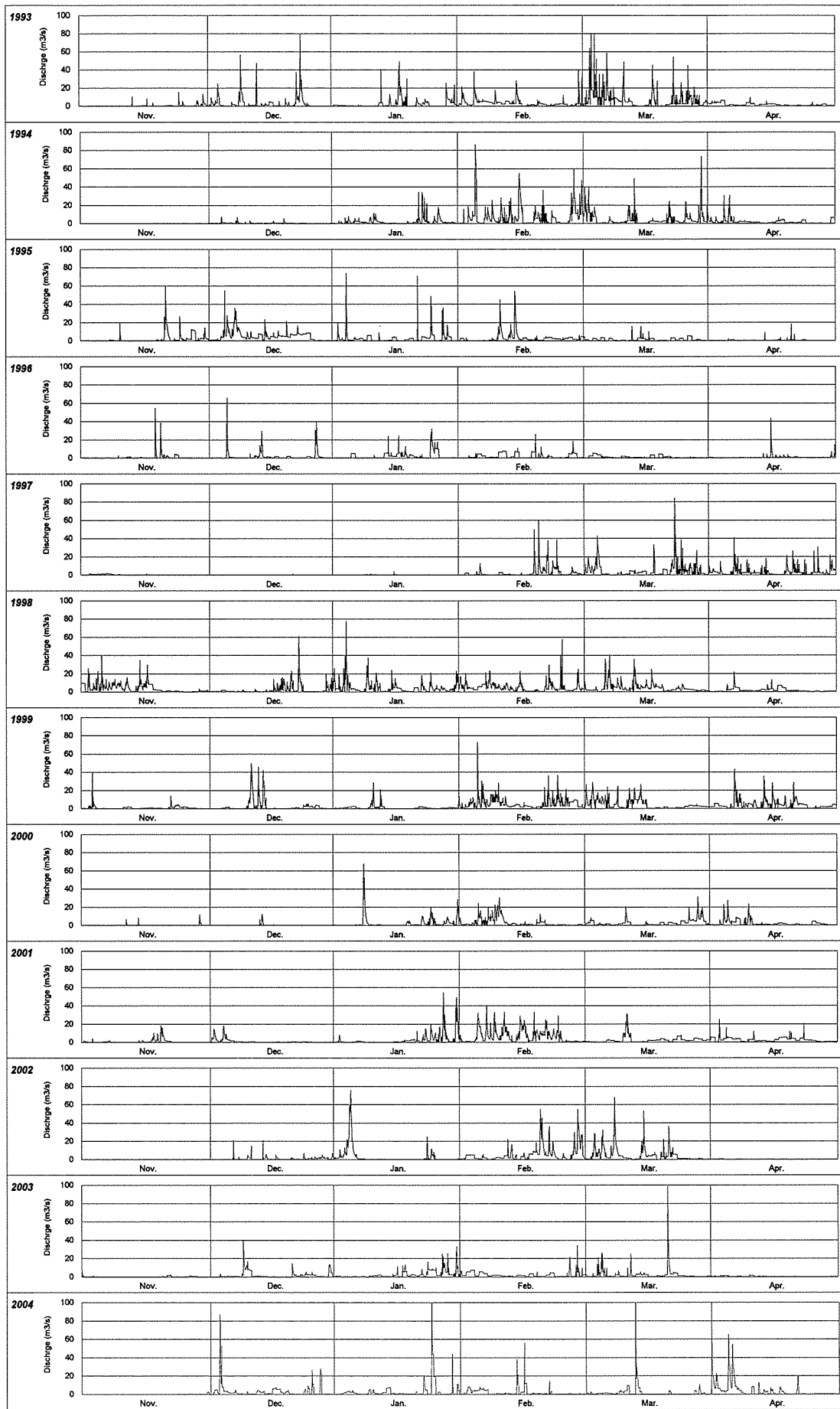


Figure 4.13 (3) Estimated Hourly Discharge Hydrograph for Temon River (Nov. 1993 - Apr. 2005)

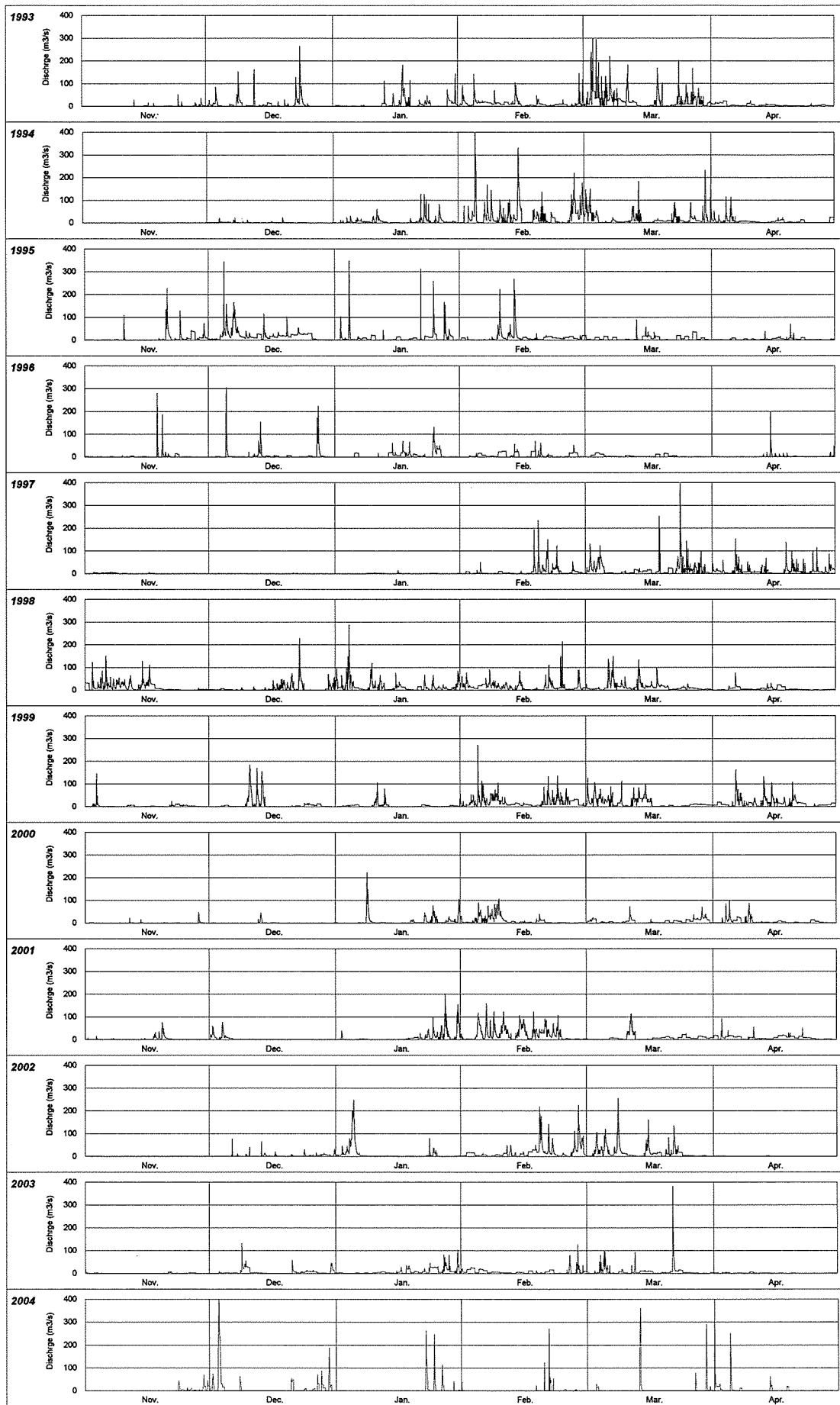


Figure 4.13 (4) Estimated Hourly Discharge Hydrograph for Bengawan Solo (Nov. 1993 - Apr. 2005)

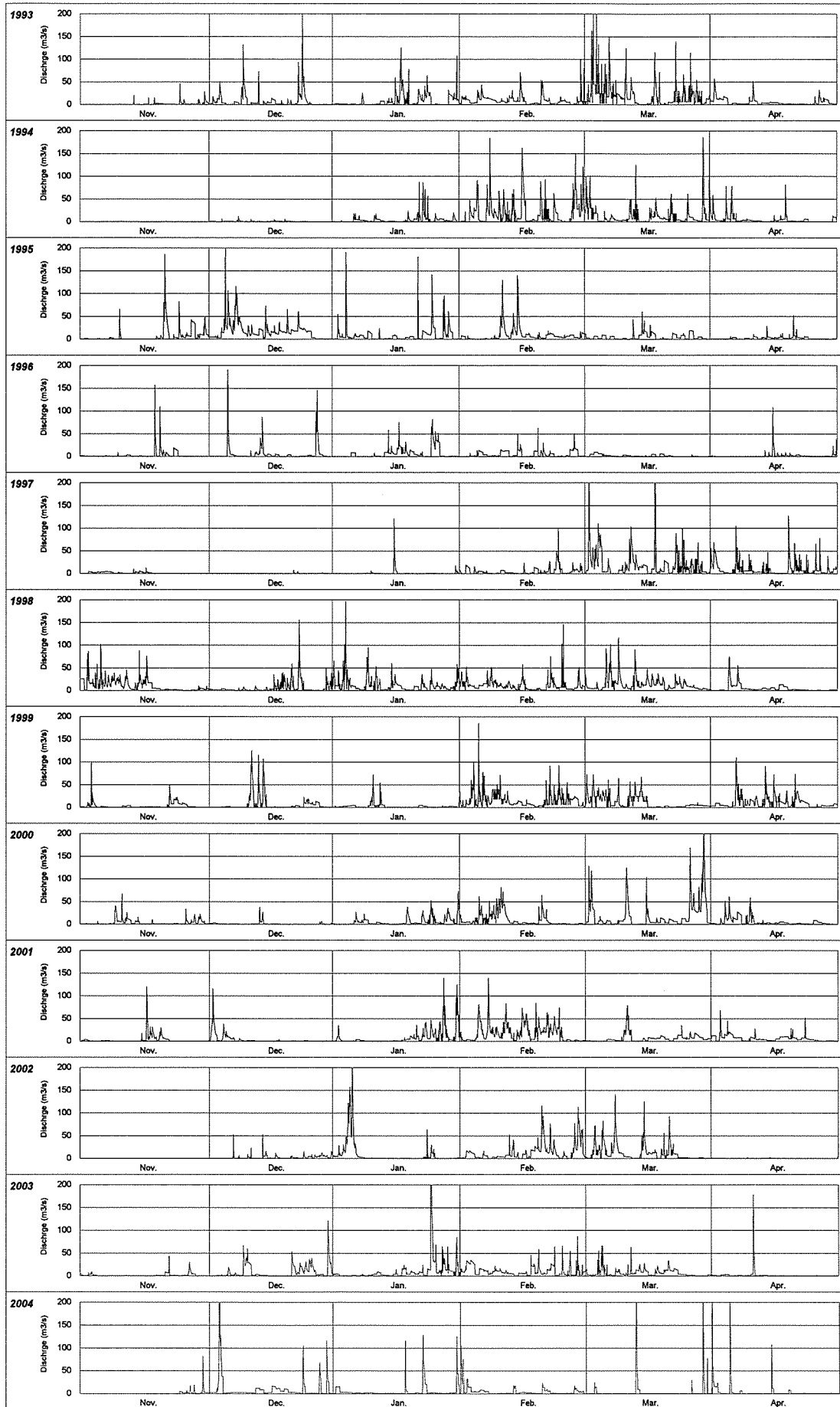


Figure 4.13 (5) Estimated Hourly Discharge Hydrograph for Alang River (Nov. 1993 - Apr. 2005)

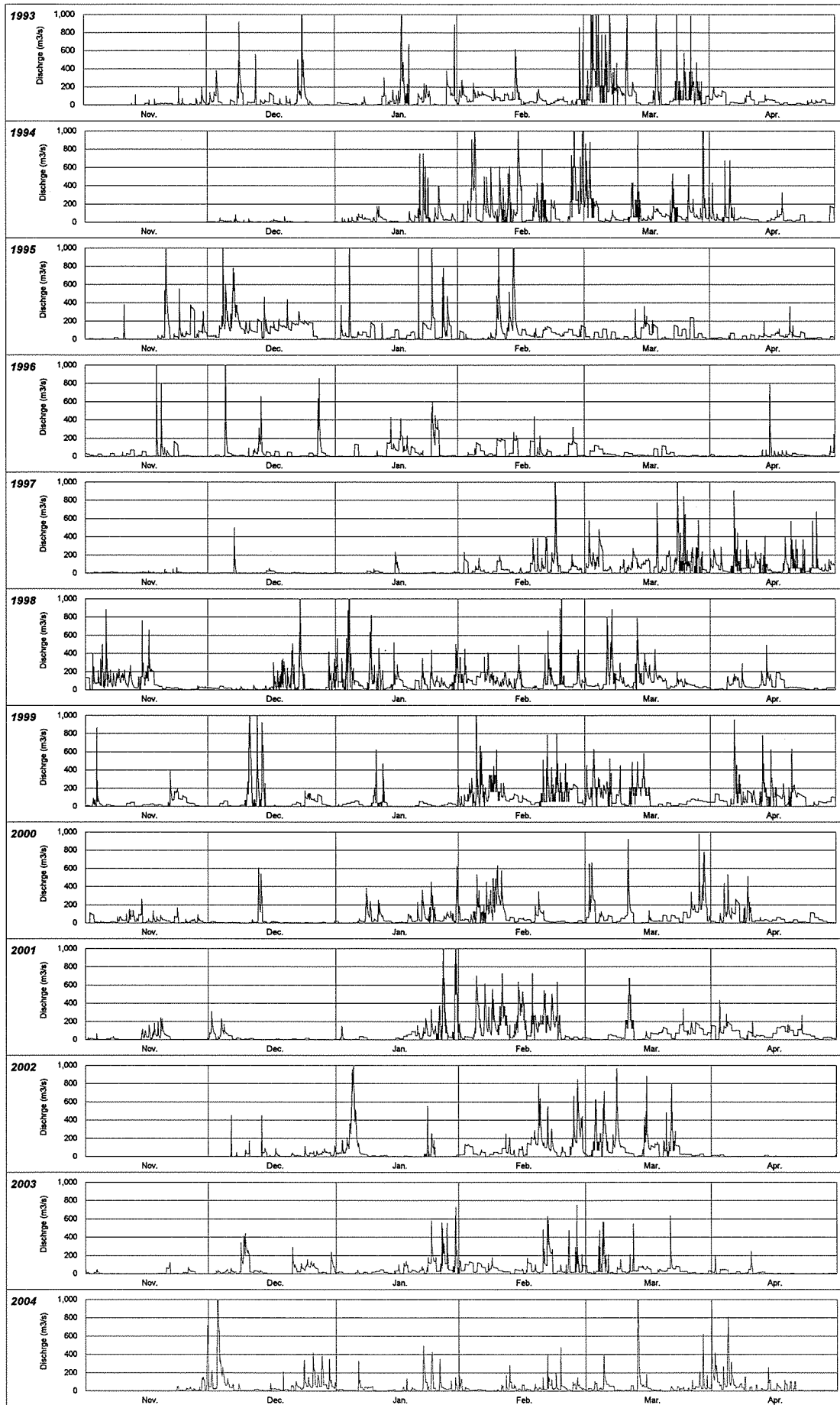
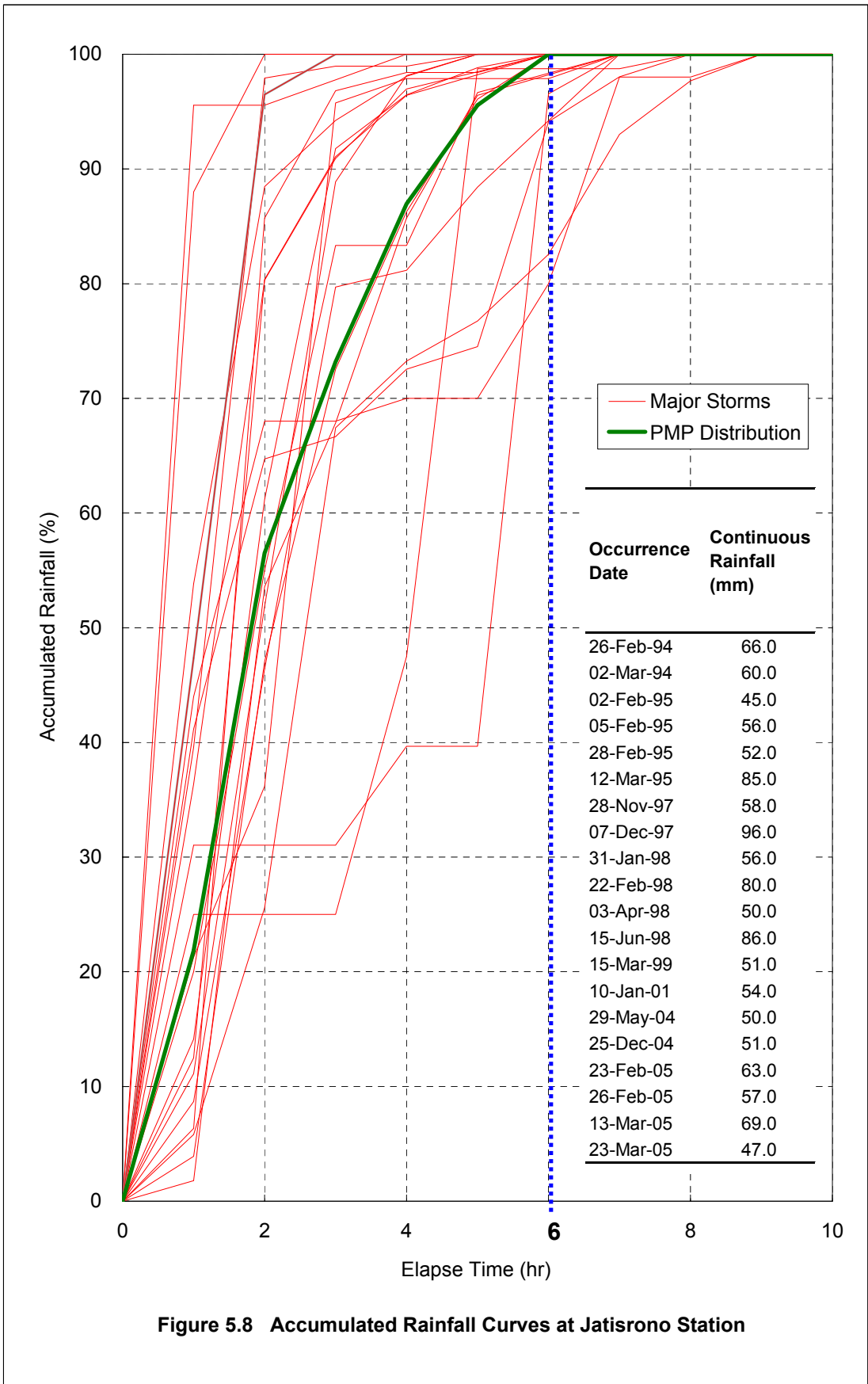


Figure 4.13 (6) Estimated Hourly Discharge Hydrograph for Whole Reservoir Watershed (Nov. 1993 - Apr. 2005)



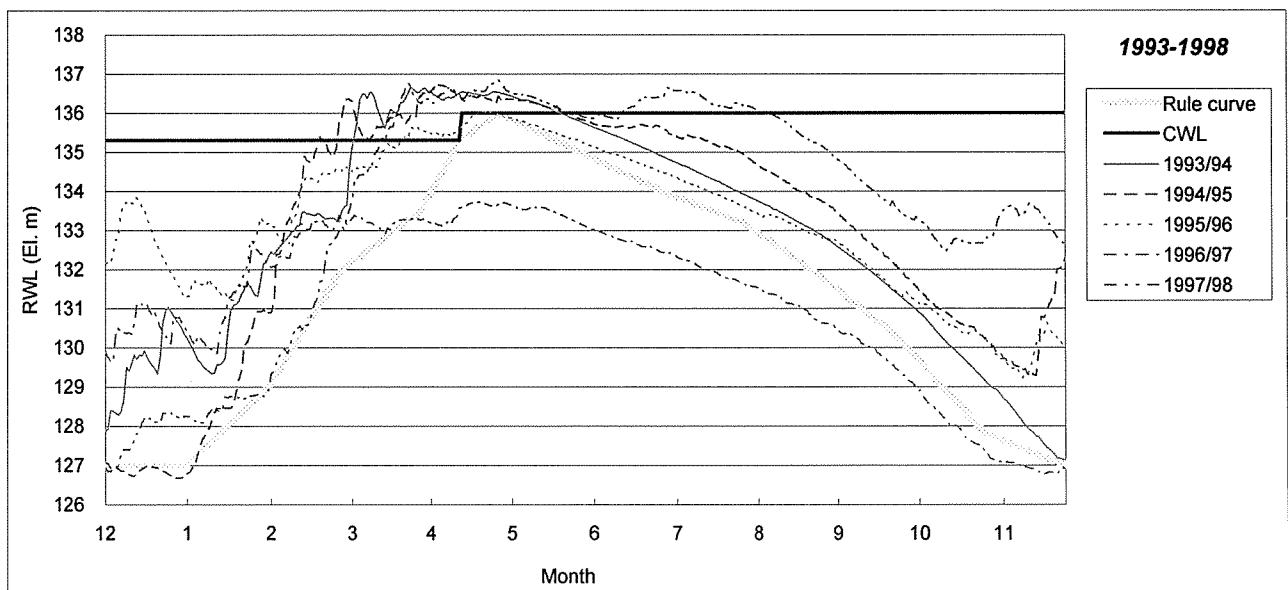
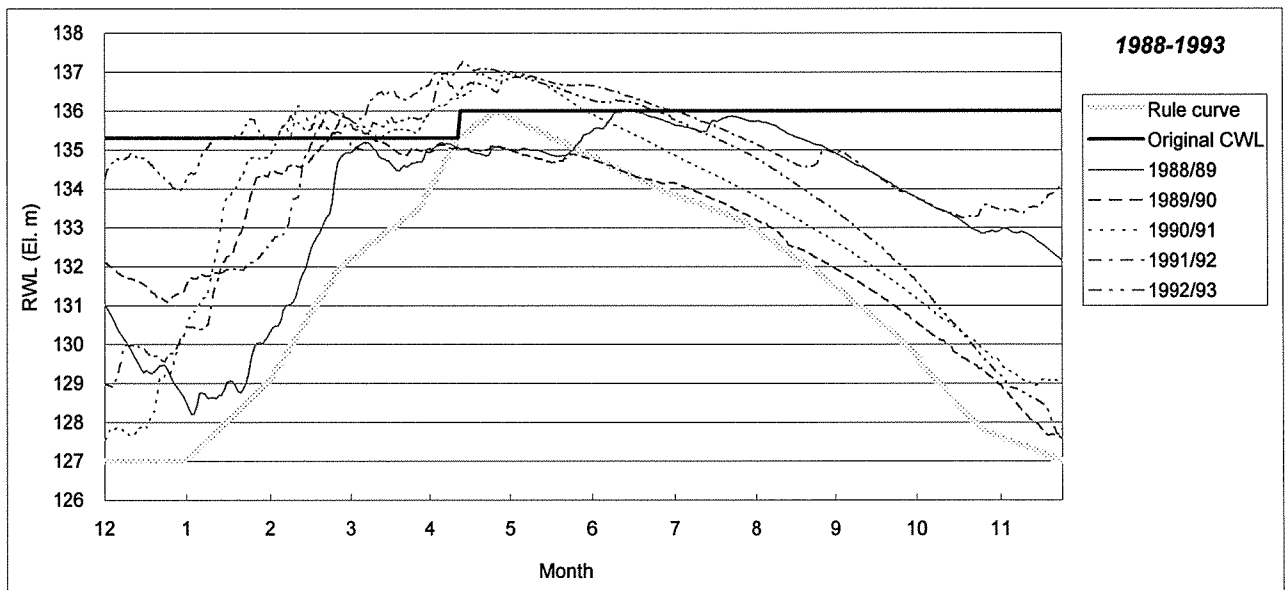
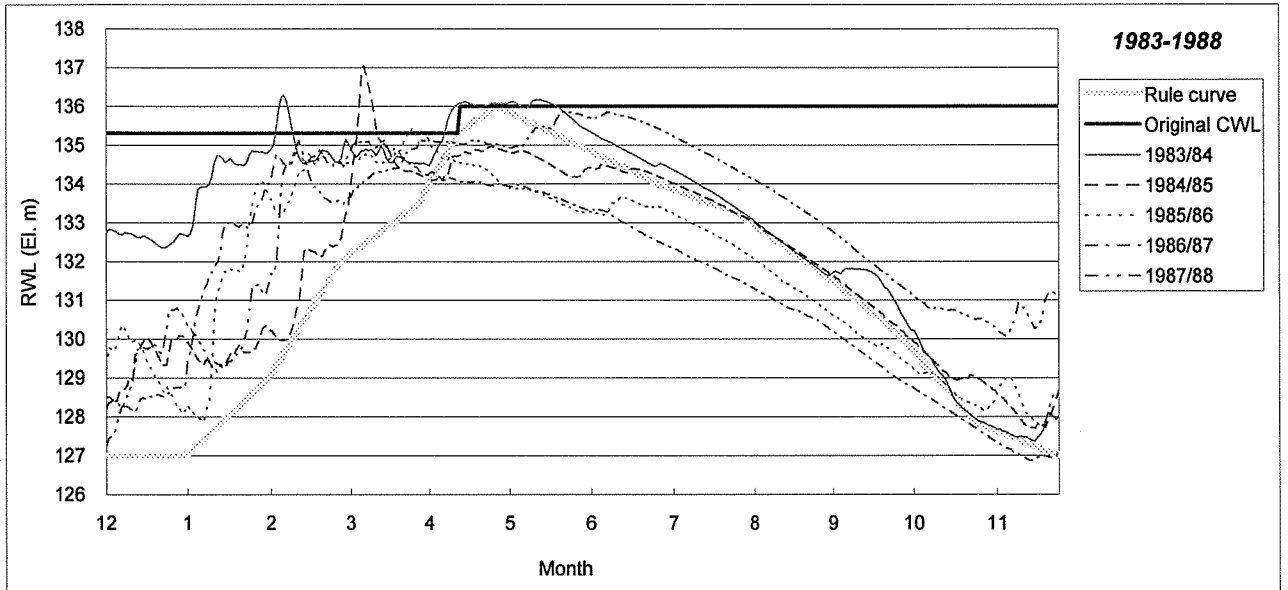


Figure 6.2 (1) Historical Wonogiri Reservoir Operations
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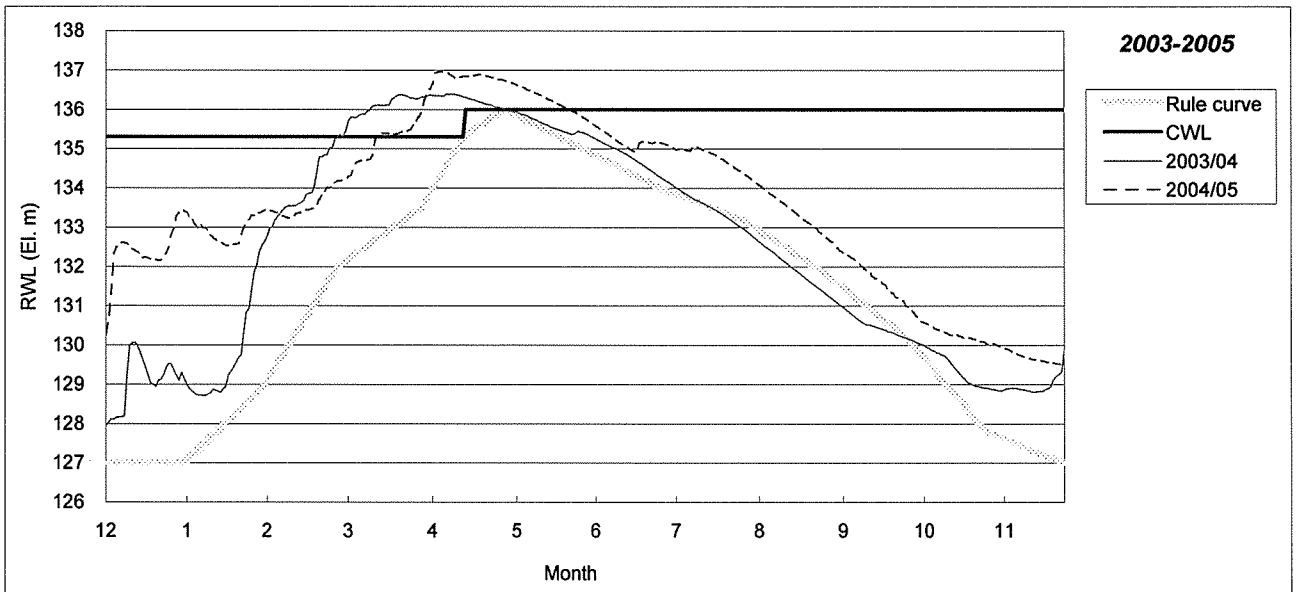
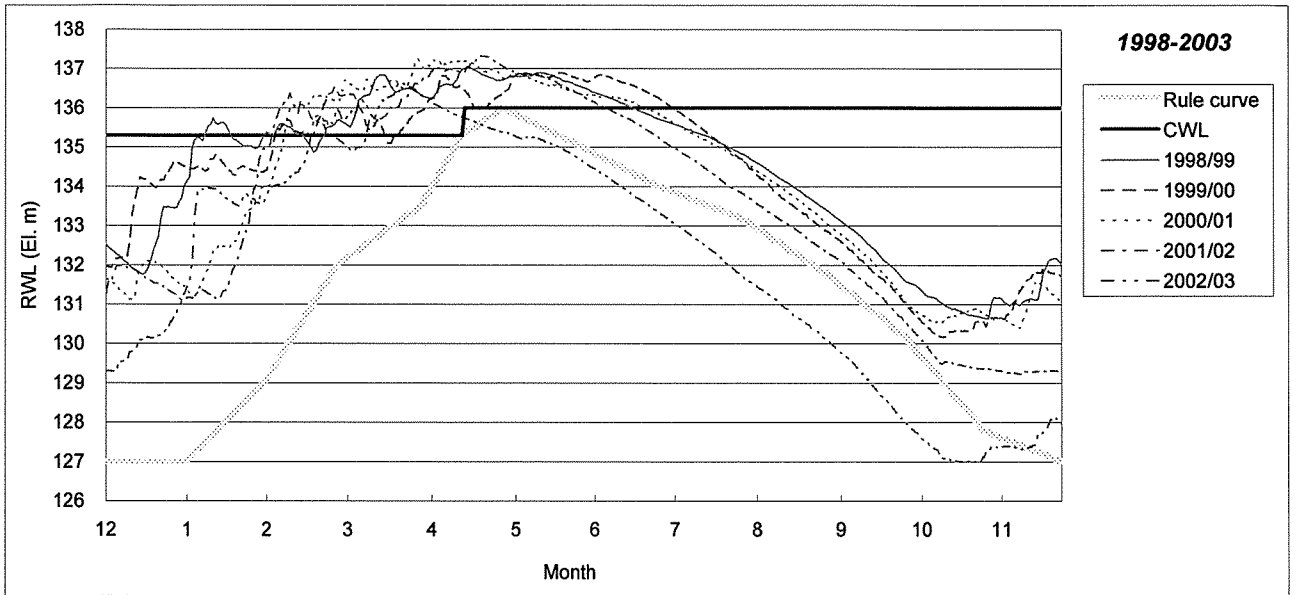


Figure 6.2 (2) Historical Wonogiri Reservoir Operations