# **Station: Chiang Saen**

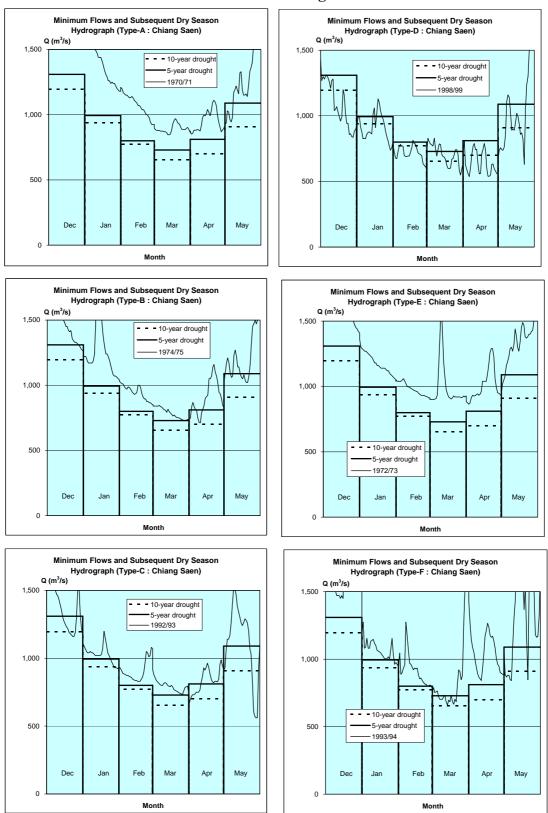
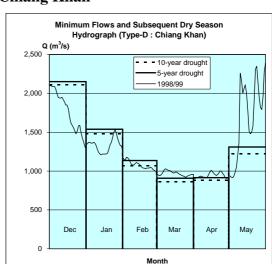


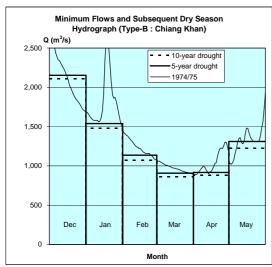
Fig. 6.30 Comparison of Minimum Monthly Flows and Dry Season Hydrographs of Selected Flow Regimes (1/12)

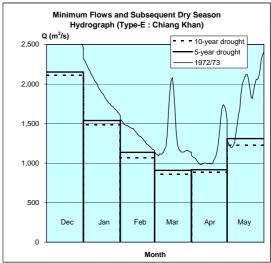
### **Station: Luang Prabang** Minimum Flows and Subsequent Dry Season Minimum Flows and Subsequent Dry Season Hydrograph (Type-A: Luang Prabang) Hydrograph (Type-D : Luang Prabang) Q (m3/s) 2,500 - 10-year drought 5-year drought 5-year drought 1970/71 1998/99 2,000 2,000 1,500 1,500 1,000 500 500 Dec Jan Mar May Minimum Flows and Subsequent Dry Season Minimum Flows and Subsequent Dry Season Hydrograph (Type-B: Luang Prabang) Hydrograph (Type-E: Luang Prabang) Q (m3/s) Q (m<sup>3</sup>/s) 2.500 2.500 - 10-year drought - 10-year drought 5-year drought 5-year drought 1972/73 2,000 2,000 1,500 1,500 1,000 1.000 500 500 Jan Feb Mar Mav May 0 Month Minimum Flows and Subsequent Dry Season Minimum Flows and Subsequent Dry Season Hydrograph (Type-C : Luang Prabang) Hydrograph (Type-F : Luang Prabang) Q (m3/s) Q (m<sup>3</sup>/s) - 10-year drought - 10-year drought 5-year drought 5-year drought 1993/94 1992/93 2.000 2,000 1,500 1,000 1,000 500 Feb Dec Apr Dec Jan Feb Mai 0

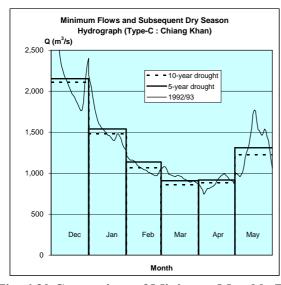
Fig. 6.30 Comparison of Minimum Monthly Flows and Dry Season Hydrographs of Selected Flow Regimes (2/12)

# Minimum Flows and Subsequent Dry Season Hydrograph (Type-A : Chiang Khan) 2,500 1,500 Dec Jan Feb Mar Apr May Minimum Hydro 2,000 1,000 Month Minimum Hydro 2,500 1,000 1,000 Dec Jan Feb Mar Apr May Minimum Hydro 2,500 1,000 1,000 Month









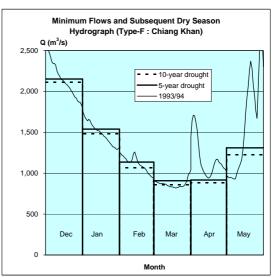


Fig. 6.30 Comparison of Minimum Monthly Flows and Dry Season Hydrographs of Selected Flow Regimes (3/12)

# **Station: Vientiane**

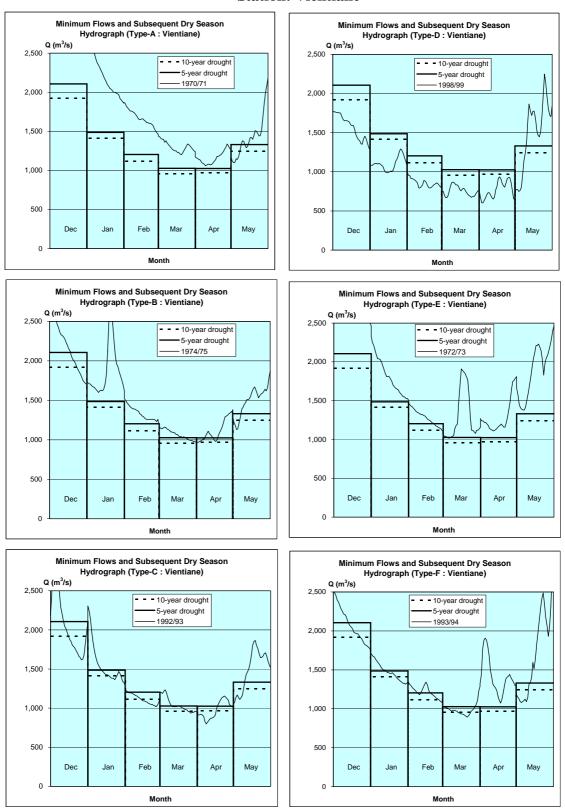


Fig. 6.30 Comparison of Minimum Monthly Flows and Dry Season Hydrographs of Selected Flow Regimes (4/12)

### **Station: Nong Khai** Minimum Flows and Subsequent Dry Season Minimum Flows and Subsequent Dry Season Hydrograph (Type-A: Nong Khai) Hydrograph (Type-D : Nong Khai) Q (m<sup>3</sup>/s) Q (m<sup>3</sup>/s) 2,500 2.500 - 10-year drought - 10-year drought 5-year drought - 1998/99 - 1970/71 2,000 2,000 1.500 1,500 1,000 1,000 500 500 Dec Mar 0 Month Month Minimum Flows and Subsequent Dry Season Minimum Flows and Subsequent Dry Season Hydrograph (Type-B: Nong Khai) Hydrograph (Type-E : Nong Khai) Q (m<sup>3</sup>/s) Q (m<sup>3</sup>/s) - 10-year drought 2,500 2,500 5-year drought - 10-year drought 1972/73 5-year drought 1974/75 2,000 2,000 1,000 1,000 500 Dec May Feb Dec Jan Feb Mar Apr May Apr 0 0 Minimum Flows and Subsequent Dry Season Minimum Flows and Subsequent Dry Season Hydrograph (Type-C: Nong Khai) Hydrograph (Type-F : Nong Khai) Q (m<sup>3</sup>/s) 2,500 2,500 - 10-year drought - 10-year drought 5-vear drought -1992/93 1993/94 2.000 2,000 1,500 1,500 1,000 1,000 500 Dec Jan Feb May Dec Feb Mar May Apr Jan Apr

Fig. 6.30 Comparison of Minimum Monthly Flows and Dry Season Hydrographs of Selected Flow Regimes (5/12)

Month

0

# **Station: Nakhon Phanom**

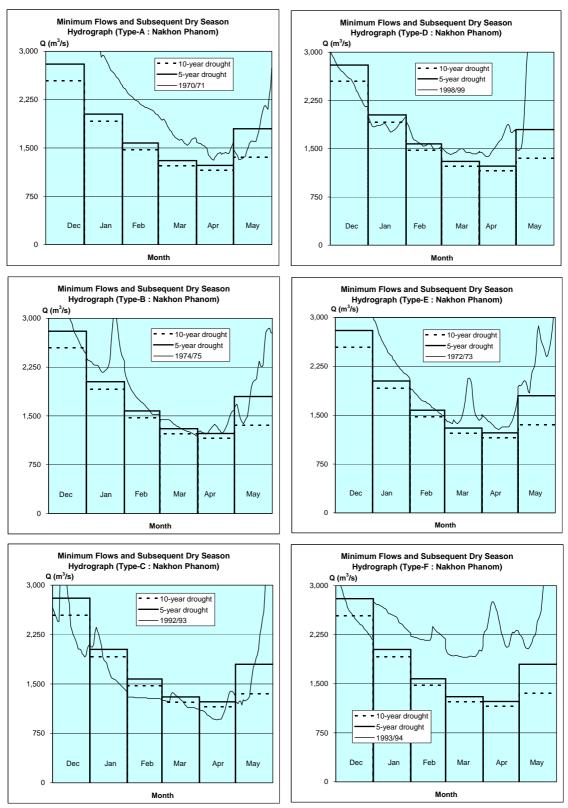


Fig. 6.30 Comparison of Minimum Monthly Flows and Dry Season Hydrographs of Selected Flow Regimes (6/12)

### Station: Mukdahan Minimum Flows and Subsequent Dry Season Minimum Flows and Subsequent Dry Season Hydrograph (Type-A: Mukdahan) Hydrograph (Type-D : Mukdahan) Q (m<sup>3</sup>/s) Q (m<sup>3</sup>/s) 3,000 3,000 - - 10-year drought - 10-year drought 5-year drought 5-year drought 1970/71 1998/99 2,250 1,500 1,500 750 Mai May Apr Month Month Minimum Flows and Subsequent Dry Season Minimum Flows and Subsequent Dry Season Hydrograph (Type-B : Mukdahan) Hydrograph (Type-E : Mukdahan) Q (m<sup>3</sup>/s) 3,000 3,000 - 10-year drought - 10-year drought -5-year drought 5-year drought 1974/75 1972/73 2,250 2,250 1,500 1.500 750 750 Jan Feb Apr May Dec Jan Feb Mar Apr May 0 Month Minimum Flows and Subsequent Dry Season Hydrograph (Type-C : Mukdahan) Hydrograph (Type-F: Mukdahan) Q (m3/s) Q (m<sup>3</sup>/s) 3.000 3,000 - - 10-year drought - 10-year drought 5-year drought 5-year drought - 1993/94 1992/93 2.250 2,250 1,500 750

Fig. 6.30 Comparison of Minimum Monthly Flows and Dry Season Hydrographs of Selected Flow Regimes (7/12)

Dec

Jan

Feb

Month

Apr

May

Мау

### **Station: Pakse** Minimum Flows and Subsequent Dry Season Minimum Flows and Subsequent Dry Season Hydrograph (Type-A: Pakse) Hydrograph (Type-D : Pakse) Q (m<sup>3</sup>/s) Q (m<sup>3</sup>/s) 4,000 4.000 = = 10-year drought - 10-year drought 5-year drought 5-year drought 1970/71 - 1998/99 3,000 3,000 \_ \_ \_ \_ 2,000 2,000 1,000 1,000 Feb Mar May Apr Dec Jan Feb Мау Apr 0 0 Month Minimum Flows and Subsequent Dry Season Minimum Flows and Subsequent Dry Season Hydrograph (Type-B : Pakse) Hydrograph (Type-E : Pakse) Q (m<sup>3</sup>/s) Q (m<sup>3</sup>/s) 4,000 - 10-year drought - - 10-year drought ■5-year drought 5-year drought - 1974/75 - 1972/73 3,000 3,000 2,000 2,000 1,000 1,000 Dec Feb Jan Feb Month Month Minimum Flows and Subsequent Dry Season Minimum Flows and Subsequent Dry Season Hydrograph (Type-C : Pakse) Hydrograph (Type-F : Pakse) Q (m<sup>3</sup>/s) Q (m3/s) 4,000 4.000 - 10-year drought - - 10-year drought 5-year drought 5-year drought 1992/93 1993/94 3,000 3,000 2,000 2,000 1,000 1,000 Dec Jan Feb Mar Apr May Dec Jan Feb Mar Apr May 0 0 Month Month

Fig. 6.30 Comparison of Minimum Monthly Flows and Dry Season Hydrographs of Selected Flow Regimes (9/12)

# Station: Tan Chau Minimum Flows and Subsequent Dry Season Minimum Flows and Subsequent Dry Season Hydrograph (Type-B : Tan Chau) Hydrograph (Type-A: Tan Chau) Q (m³/s) 10,000 Q (m<sup>3</sup>/s) - 10-year drought - - 10-year drought 5-year drought -1981/82 1982/83 8,000 6,000 4.000 2,000 2.000 Dec Jan Feb May 0 Minimum Flows and Subsequent Dry Season Hydrograph (Type-C : Tan Chau) Hydrograph (Type-D : Tan Chau) Q (m³/s) Q (m³/s) - 10-year drought ■ 10-year drought 5-year drought 5-year drought 1998/99 8,000 8,000 6,000 6,000 4,000 2,000 2,000 Jan Mai May May 0 0 Month Month Minimum Flows and Subsequent Dry Season Minimum Flows and Subsequent Dry Season Hydrograph (Type-E : Tan Chau) Hydrograph (Type-F : Tan Chau) Q (m³/s) Q (m³/s) - 10-year drought 5-year drought 8,000 - 10-year drought 8.000 - 1986/87 5-year drought 1993/94 6,000 4,000 4,000 2,000

Fig. 6.30 Comparison of Minimum Monthly Flows and Dry Season Hydrographs of Selected Flow Regimes (10/12)

Dec

0

Jan

Feb

# **Station: Chau Doc** Minimum Flows and Subsequent Dry Season Hydrograph Minimum Flows and Subsequent Dry Season Hydrograph (Type-A : Chau Doc) (Type-B : Chau Doc) Q (m³/s) - 10-year drought - 10-year drought 2,000 2,000 5-year drought 5-year drought 1981/82 1982/83 1,500 1,500 1,000 0 -500 -500 Minimum Flows and Subsequent Dry Season Hydrograph Minimum Flows and Subsequent Dry Season Hydrograph (Type-C : Chau Doc) (Type-D : Chau Doc) Q (m³/s) Q (m³/s) - 10-year drought - 10-year drought -5-year drought 5-year drought 2.000 2.000 1992/93 - 1998/99 1.500 1,500 1,000 1,000 500 500 0 Dec Dec Jan Feb -500 Month Minimum Flows and Subsequent Dry Season Hydrograph Minimum Flows and Subsequent Dry Season Hydrograph (Type-E : Chau Doc) (Type-F : Chau Doc) Q (m³/s) - 10-year drought - 10-year drought 2,000 1986/87 1993/94 1,500 1,500 1,000 1,000 500 500 0

Fig. 6.30 Comparison of Minimum Monthly Flows and Dry Season Hydrographs of Selected Flow Regimes (11/12)

Dec

-500

Jan

Apr

Dec

-500

Jan

Mar

### **Station: Tan Chau + Chau Doc** Minimum Flows and Subsequent Dry Season Hydrograph Minimum Flows and Subsequent Dry Season Hydrograph (Type-A : Tan Chau + Chau Doc) (Type-B : Tan Chau + Chau Doc) Q (m³/s) Q (m³/s) - 10-year drought - 10-year drought 5-year drought 5-year drought 1981/82 1982/83 9 000 9,000 6,000 3,000 3.000 Dec Jan Feb Month Month Minimum Flows and Subsequent Dry Season Minimum Flows and Subsequent Dry Season Hydrograph (Type-C : Tan Chau + Chau Doc) Hydrograph (Type-D : Tan Chau + Chau Doc) 12,000 Q (m³/s) Q (m³/s) - 10-year drought - 10-year drought 5-year drought 5-year drought 1998/99 1992/93 9,000 9.000 6,000 6,000 3,000 3,000 Dec Jan Mar Dec Jan Feb Mar May Month Month Minimum Flows and Subsequent Dry Season Minimum Flows and Subsequent Dry Season Hydrograph (Type-E : Tan Chau + Chau Doc) Hydrograph (Type-F : Tan Chau + Chau Doc) Q (m³/s) Q (m³/s) 12,000 T - 10-year drought 5-year drought - 10-year drought ·5-year drought 9,000 9,000 1993/94 6,000 6.000 3,000 3,000 Dec Jan Feb Jan Feb Mar 0

Fig. 6.30 Comparison of Minimum Monthly Flows and Dry Season Hydrographs of Selected Flow Regimes (12/12)

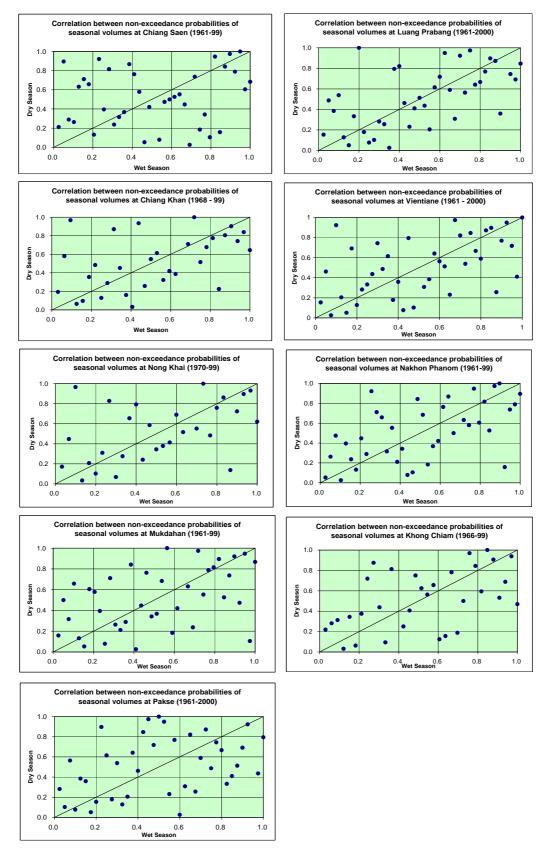


Fig. 6.32 Correlation between Non-exceedance Probabilities of Seasonal Volumes(Wet and Dry Seasons) of Flow Regime

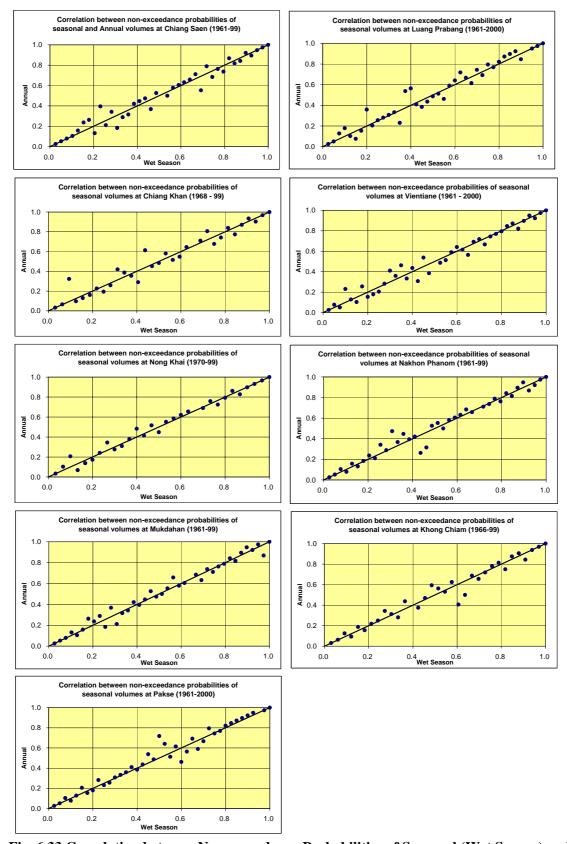
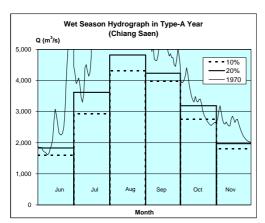
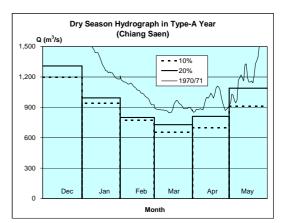
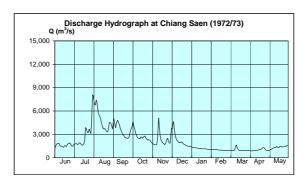


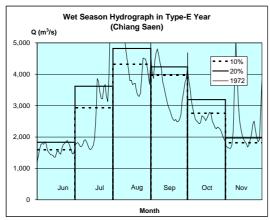
Fig. 6.33 Correlation between Non-exceedance Probabilities of Seasonal (Wet Season) and Annual Volume of Flow Regime











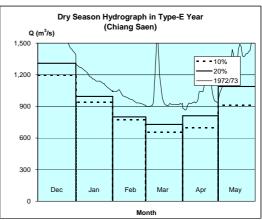
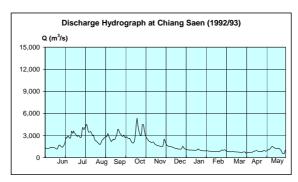
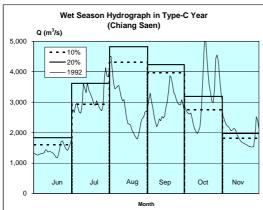
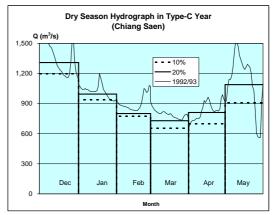


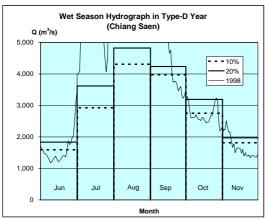
Fig. 6.35 Comparison of Annual Flow Regime to Drought Discharges at Chiang Saen (1/3)











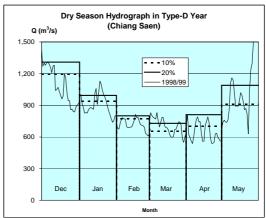
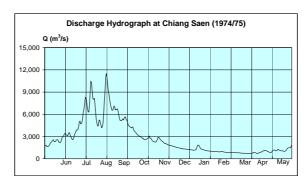
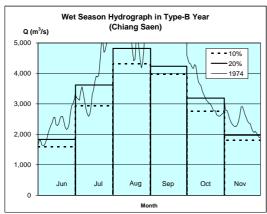
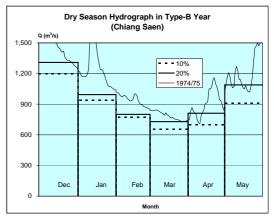
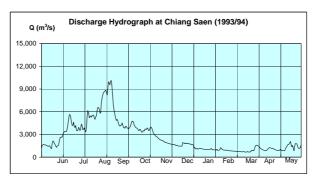


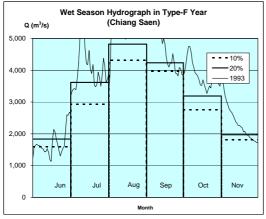
Fig. 6.35 Comparison of Annual Flow Regime to Drought Discharges at Chiang Saen (2/3)











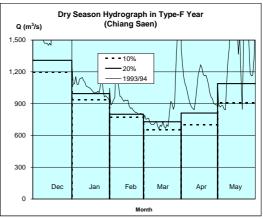
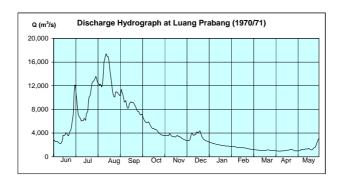
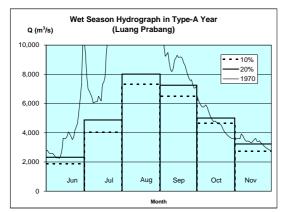
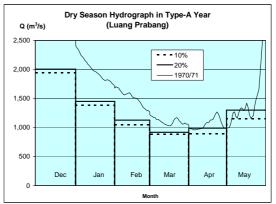
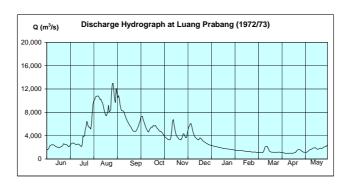


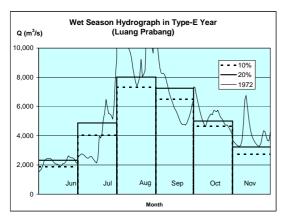
Fig. 6.35 Comparison of Annual Flow Regime to Drought Discharges at Chiang Saen (3/3)











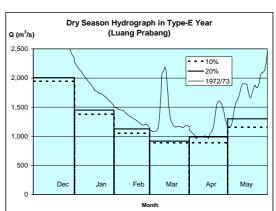
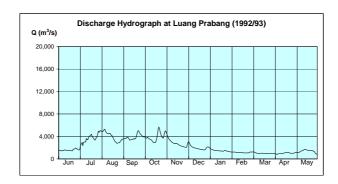
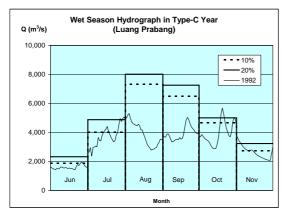
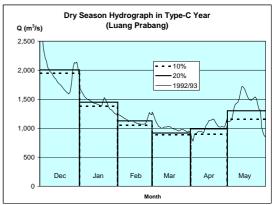
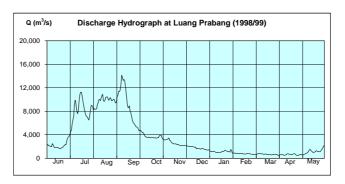


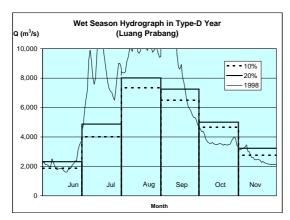
Fig. 6.36 Comparison of Annual Flow Regime to Drought Discharges at Luang Prabang (1/3)











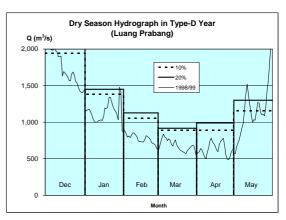
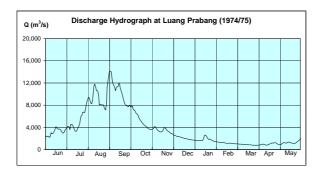
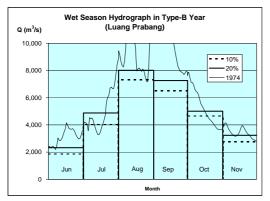
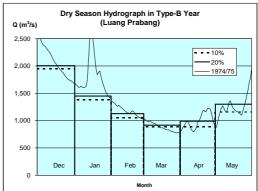
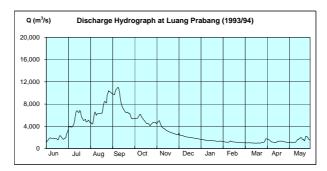


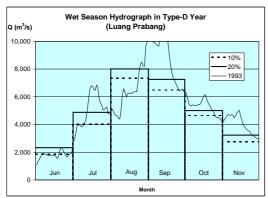
Fig. 6.36 Comparison of Annual Flow Regime to Drought Discharges at Luang Prabang (2/3)











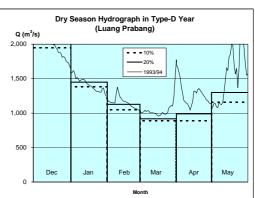
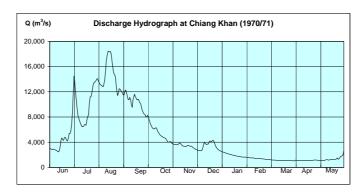
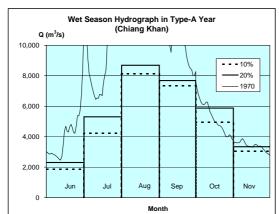
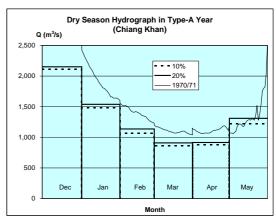
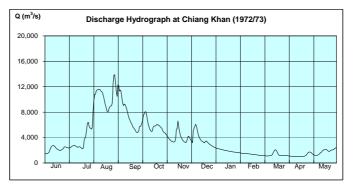


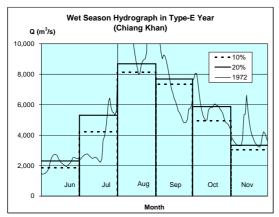
Fig. 6.36 Comparison of Annual Flow Regime to Drought Discharges at Luang Prabang (3/3)











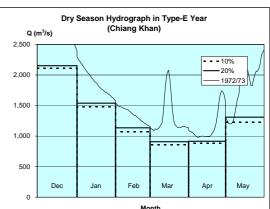
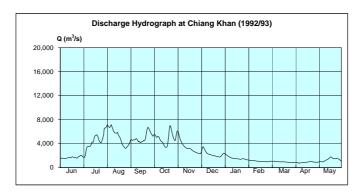
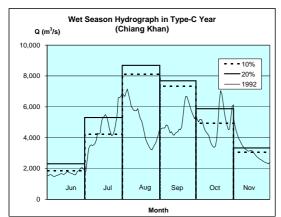
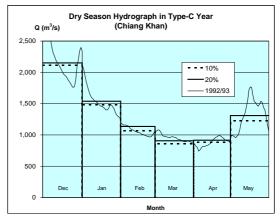
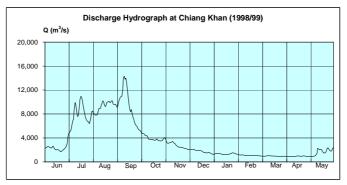


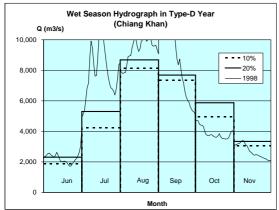
Fig. 6.37 Comparison of Annual Flow Regime to Drought Discharges at Chiang Khan (1/3)











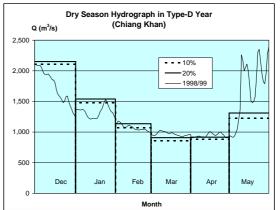
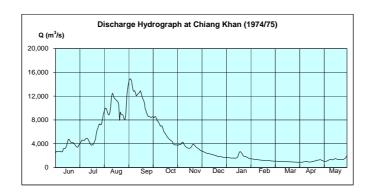
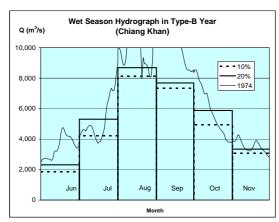
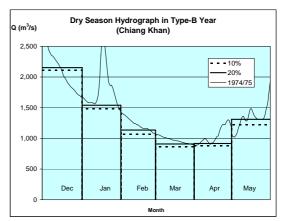
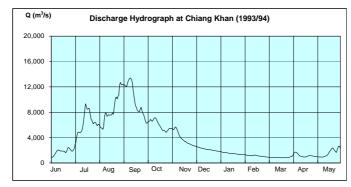


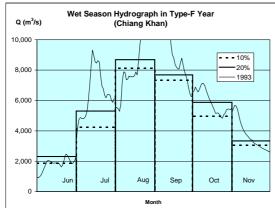
Fig. 6.37 Comparison of Annual Flow Regime to Drought Discharges at Chiang Khan (2/3)











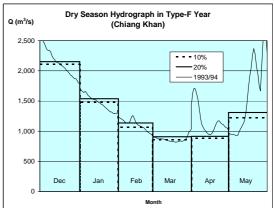
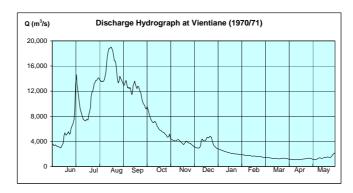
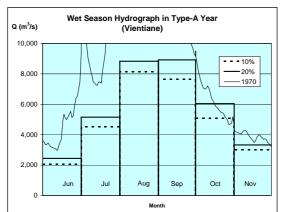
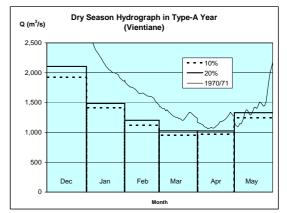
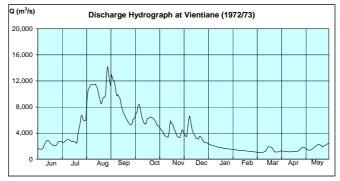


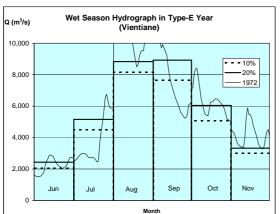
Fig. 6.37 Comparison of Annual Flow Regime to Drought Discharges at Chiang Khan (3/3)











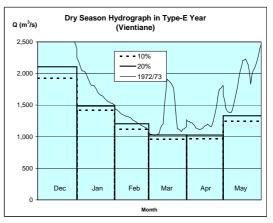
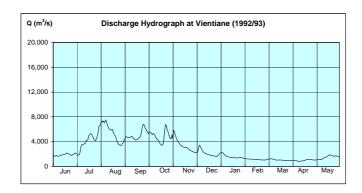
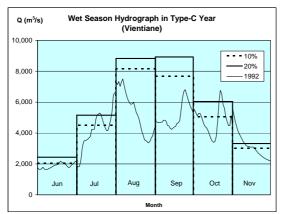
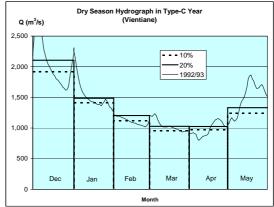
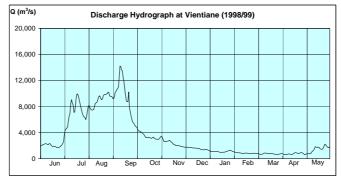


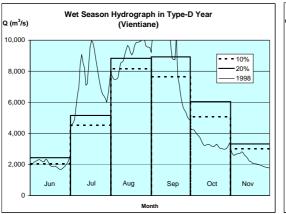
Fig. 6.38 Comparison of Annual Flow Regime to Drought Discharges at Vientiane (1/3)











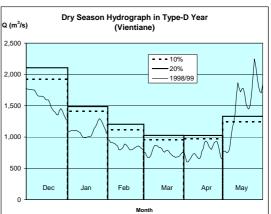
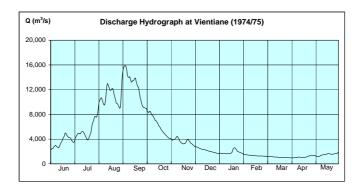
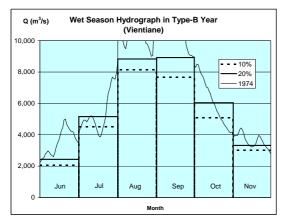
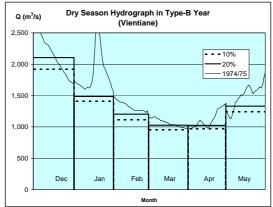
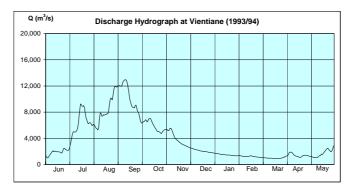


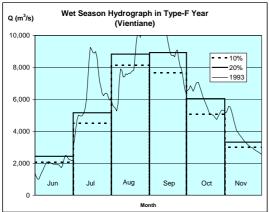
Fig. 6.38 Comparison of Annual Flow Regime to Drought Discharges at Vientiane (2/3)











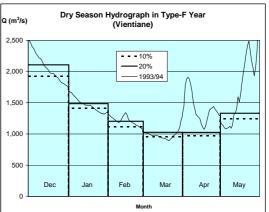
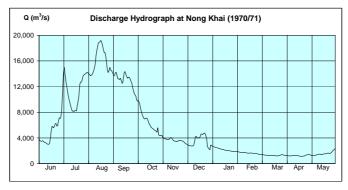
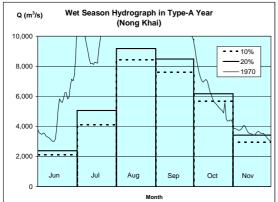
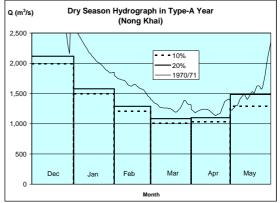
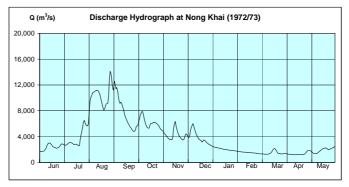


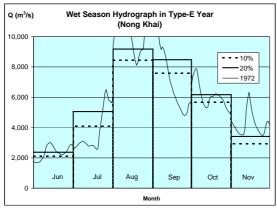
Fig. 6.38 Comparison of Annual Flow Regime to Drought Discharges at Vientiane (3/3)











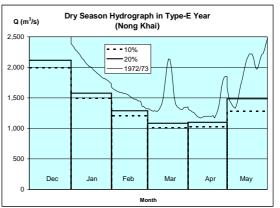
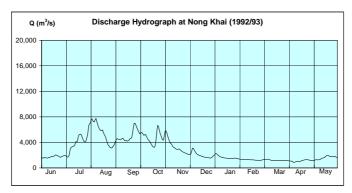
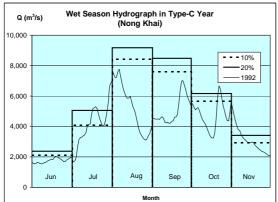
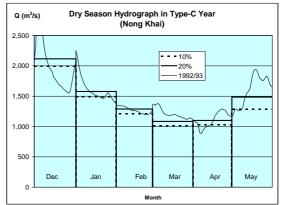
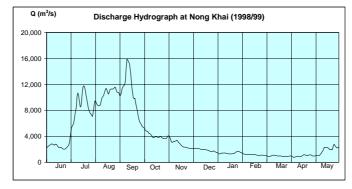


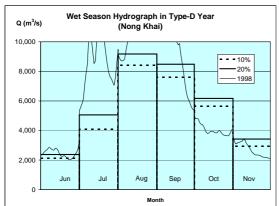
Fig. 6.39 Comparison of Annual Flow Regime to Drought Discharges at Nong Khai (1/3)











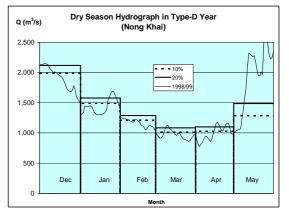
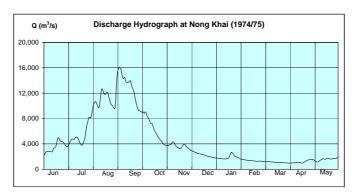
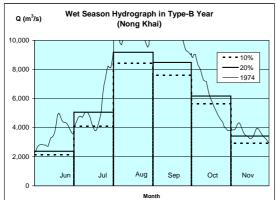
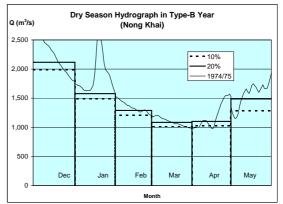
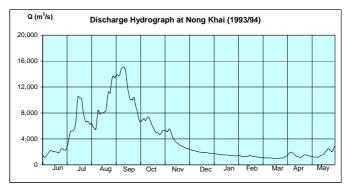


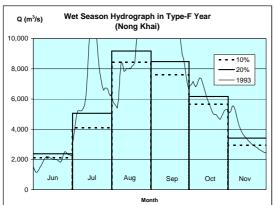
Fig. 6.39 Comparison of Annual Flow Regime to Drought Discharges at Nong Khai (2/3)











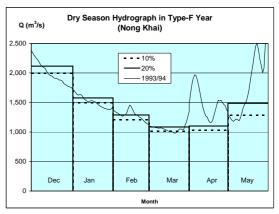
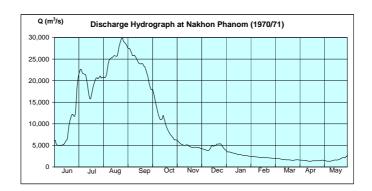
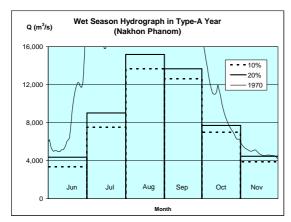
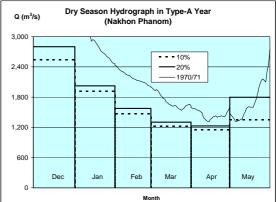
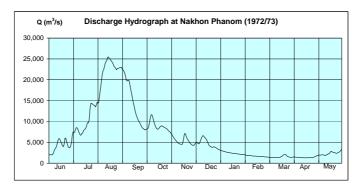


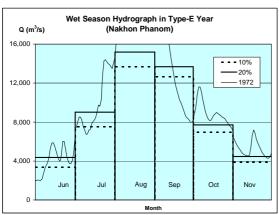
Fig. 6.39 Comparison of Annual Flow Regime to Drought Discharges at Nong Khai (3/3)











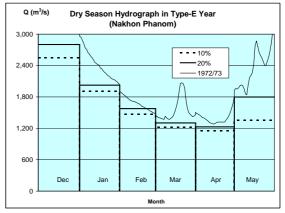
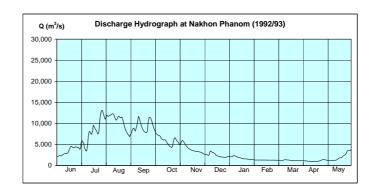
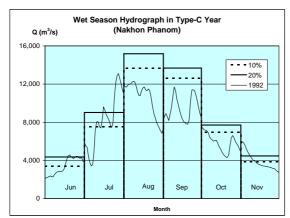
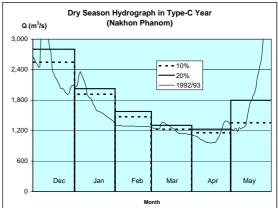
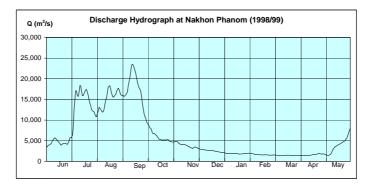


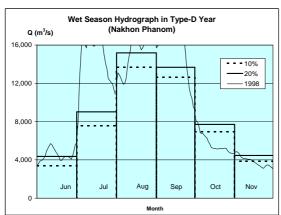
Fig. 6.40 Comparison of Annual Flow Regime to Drought Discharges at Nakhong Phanom (1/3)











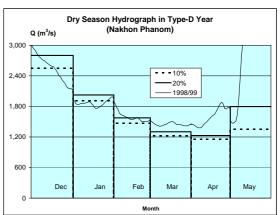
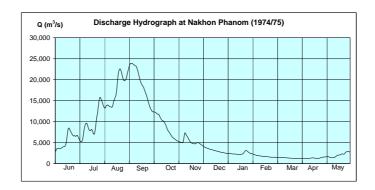
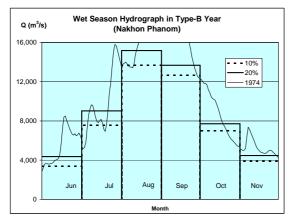
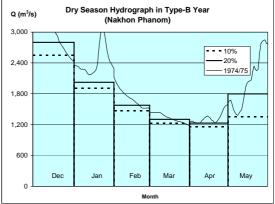
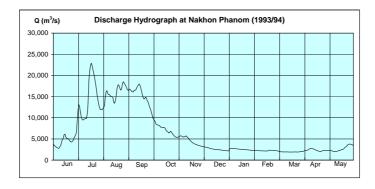


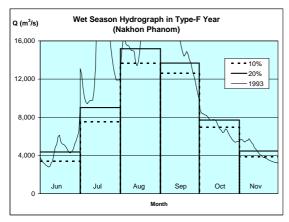
Fig. 6.40 Comparison of Annual Flow Regime to Drought Discharges at Nakhong Phanom (2/3)











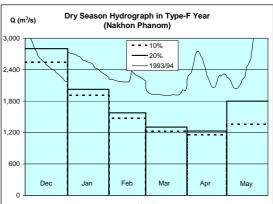
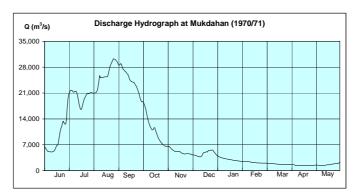
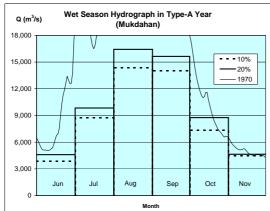
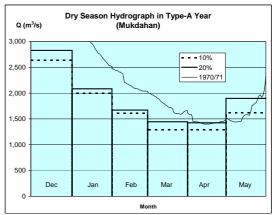
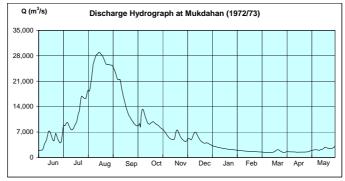


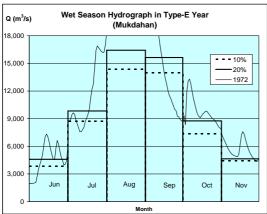
Fig. 6.40 Comparison of Annual Flow Regime to Drought Discharges at Nakhong Phanom (3/3)











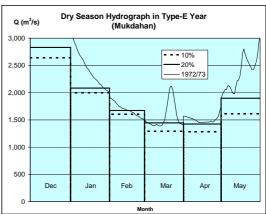
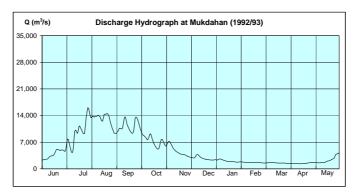
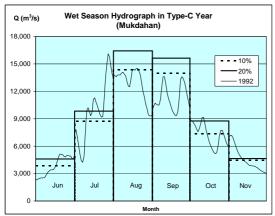
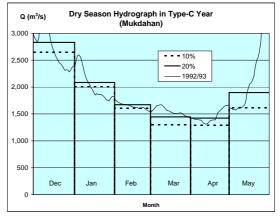
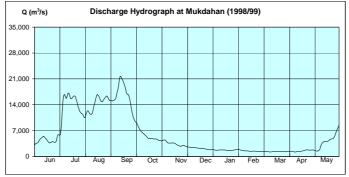


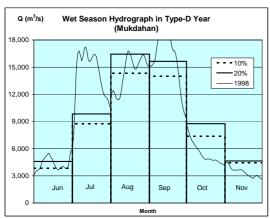
Fig. 6.41 Comparison of Annual Flow Regime to Drought Discharges at Mukdahan (1/3)











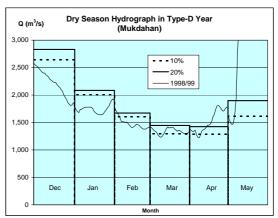
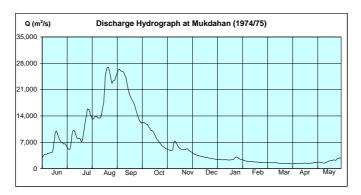
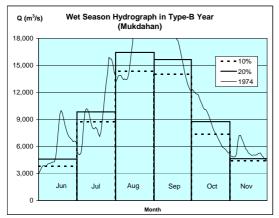
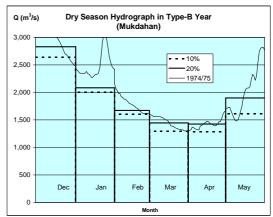
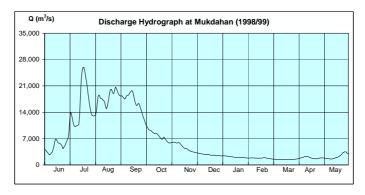


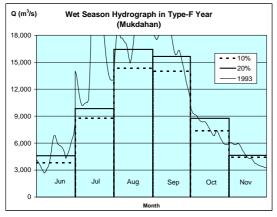
Fig. 6.41 Comparison of Annual Flow Regime to Drought Discharges at Mukdahan (2/3)











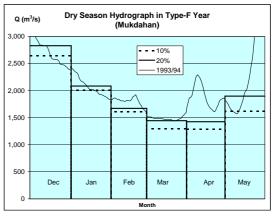
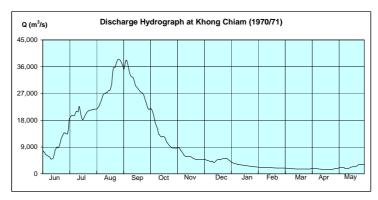
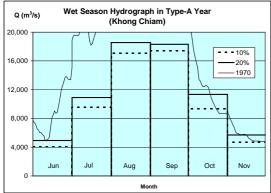
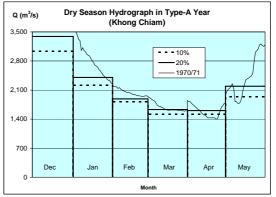
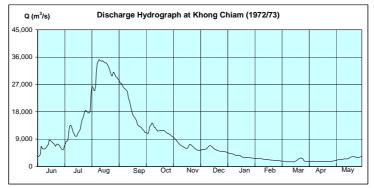


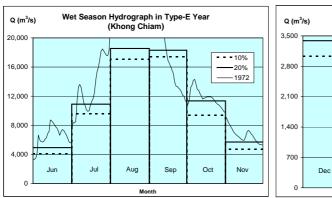
Fig. 6.41 Comparison of Annual Flow Regime to Drought Discharges at Mukdahan (3/3)











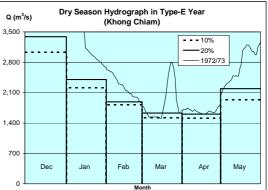


Fig. 6.42 Comparison of Annual Flow Regime to Drought Discharges at Khong Chiam (1/3)

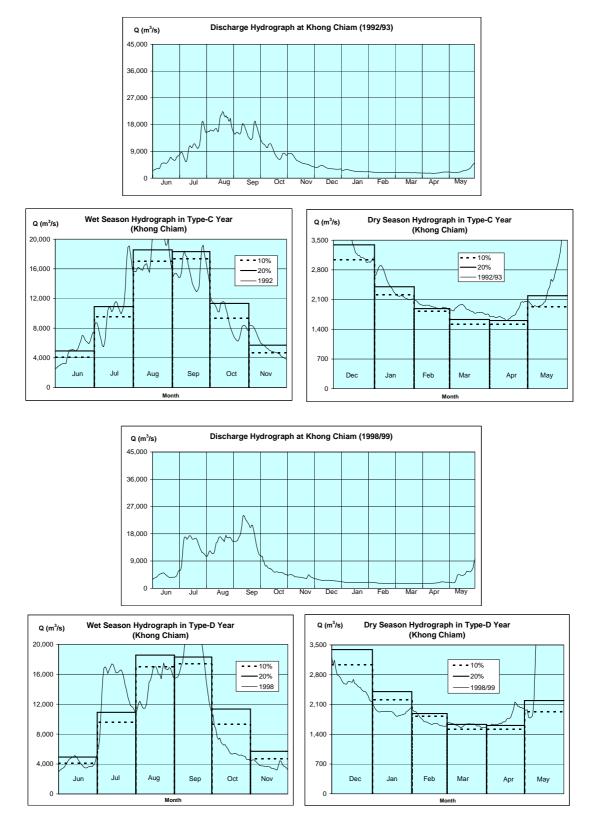
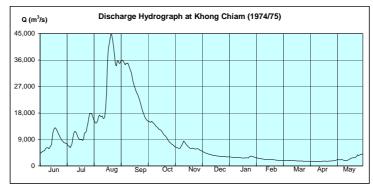
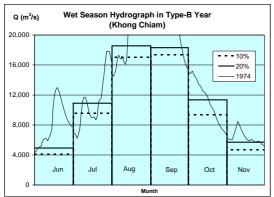
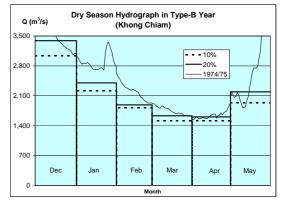
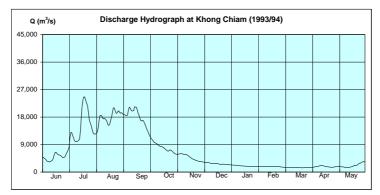


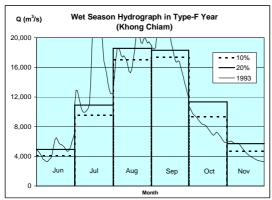
Fig. 6.42 Comparison of Annual Flow Regime to Drought Discharges at Khong Chiam (2/3)











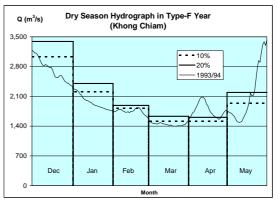
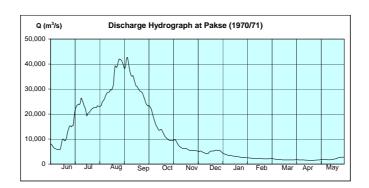
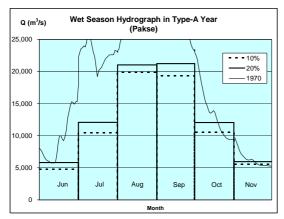
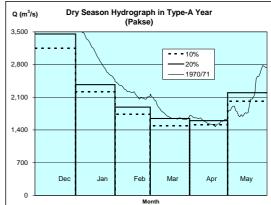
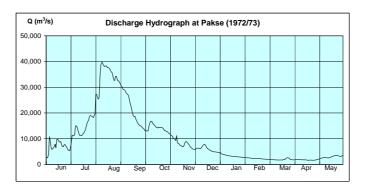


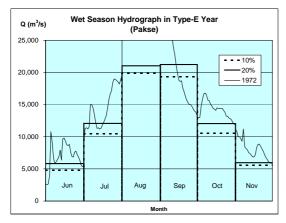
Fig. 6.42 Comparison of Annual Flow Regime to Drought Discharges at Khong Chiam (3/3)











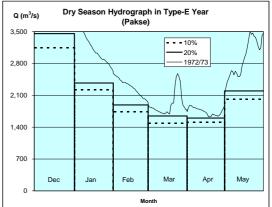
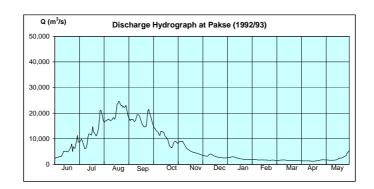
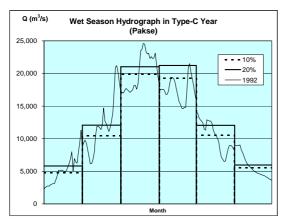
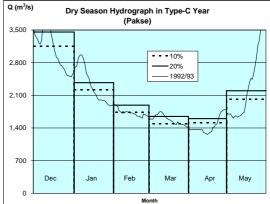
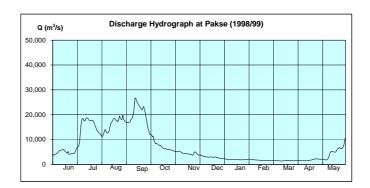


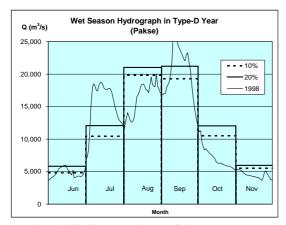
Fig. 6.43 Comparison of Annual Flow Regime to Drought Discharges at Pakse (1/3)











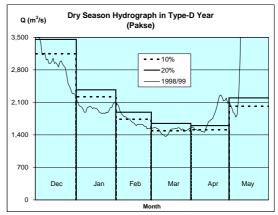
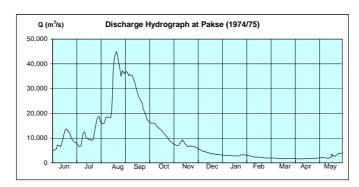
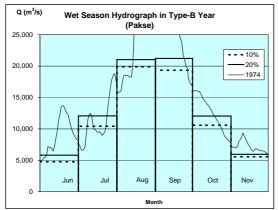
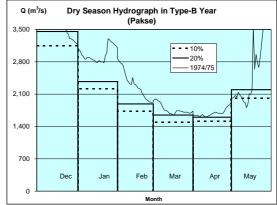
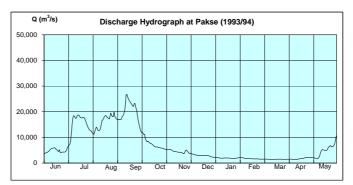


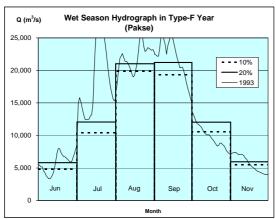
Fig. 6.43 Comparison of Annual Flow Regime to Drought Discharges at Pakse (2/3)











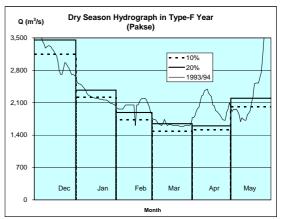
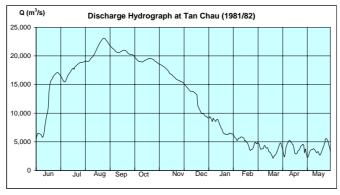
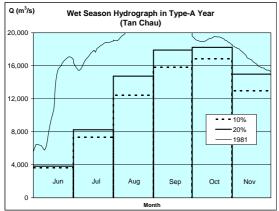
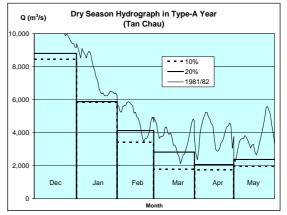
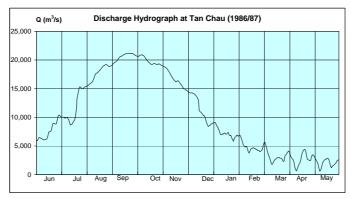


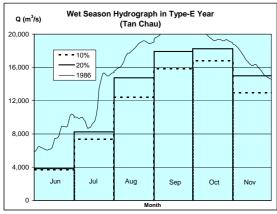
Fig. 6.43 Comparison of Annual Flow Regime to Drought Discharges at Pakse (3/3)











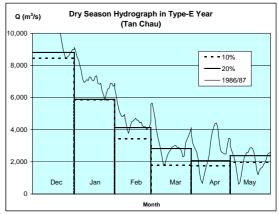
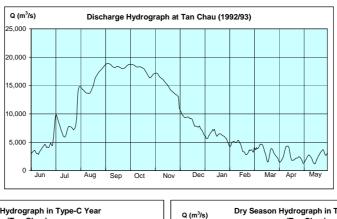
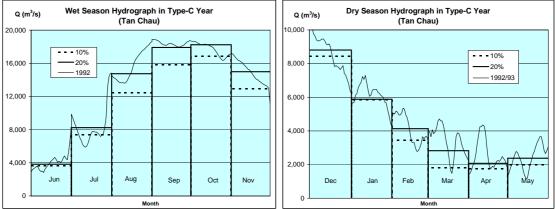
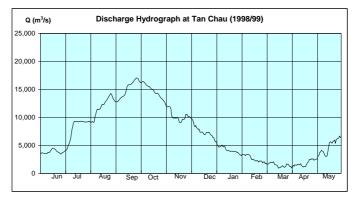


Fig. 6.44 Comparison of Annual Flow Regime to Drought Discharges at Tan Chau (1/3)







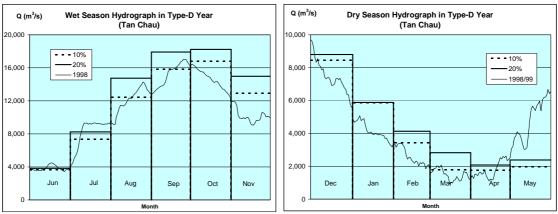
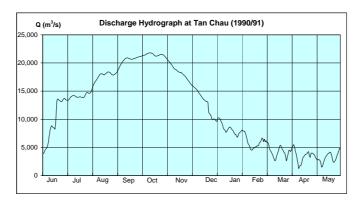
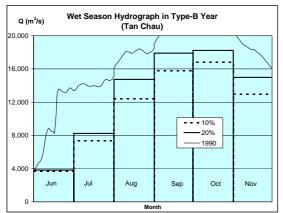
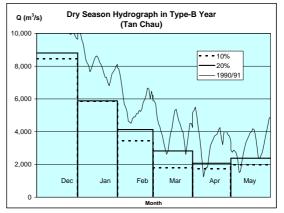
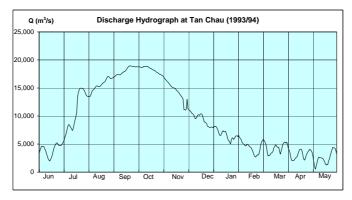


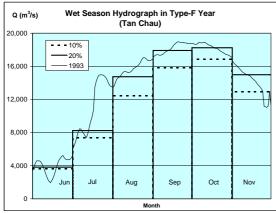
Fig. 6.44 Comparison of Annual Flow Regime to Drought Discharges at Tan Chau (2/3)











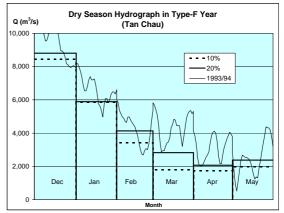
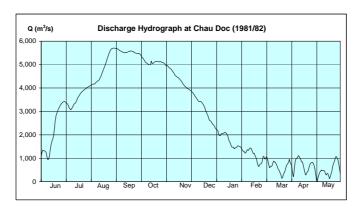
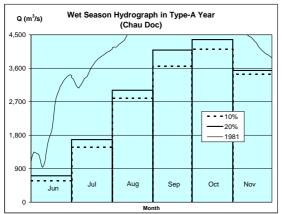
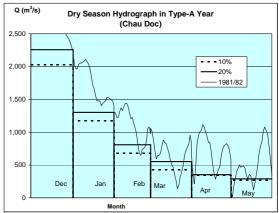
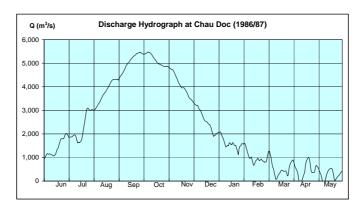


Fig. 6.44 Comparison of Annual Flow Regime to Drought Discharges at Tan Chau (3/3)









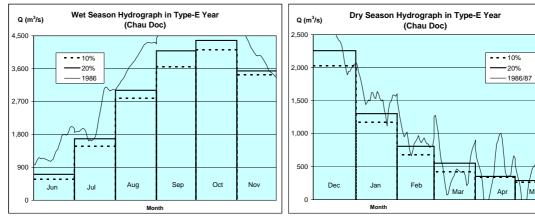
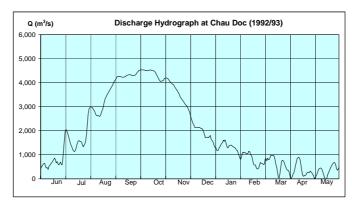
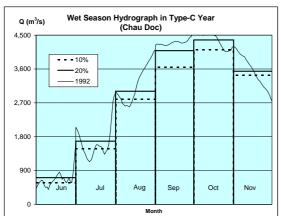
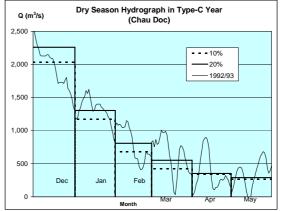
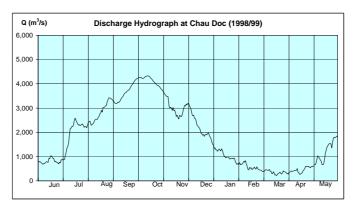


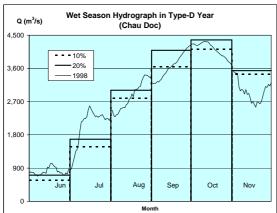
Fig. 6.45 Comparison of Annual Flow Regime to Drought Discharges at Chau Doc (1/3)











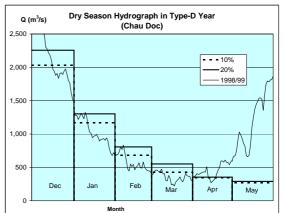
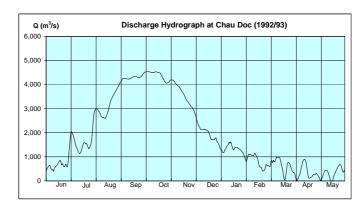
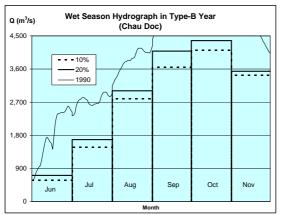
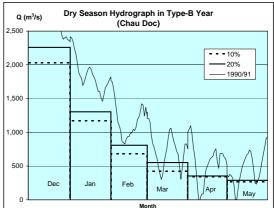
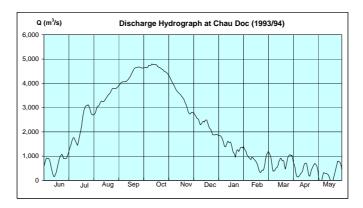


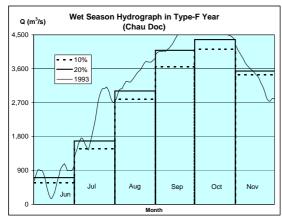
Fig. 6.45 Comparison of Annual Flow Regime to Drought Discharges at Chau Doc (2/3)











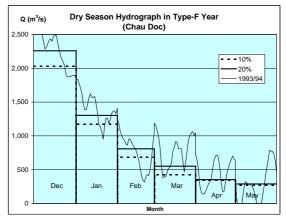
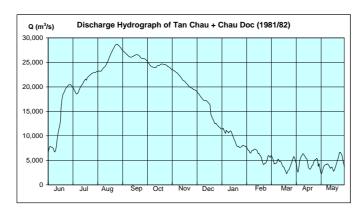
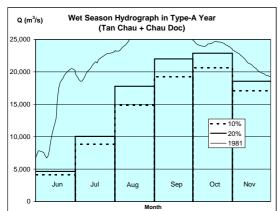
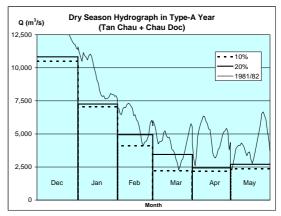
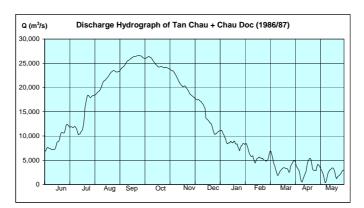


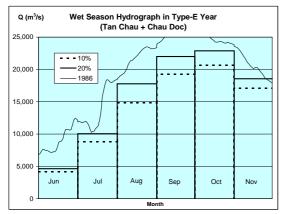
Fig. 6.45 Comparison of Annual Flow Regime to Drought Discharges at Chau Doc (3/3)











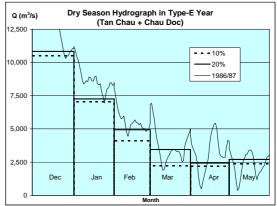
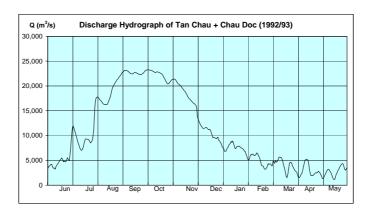
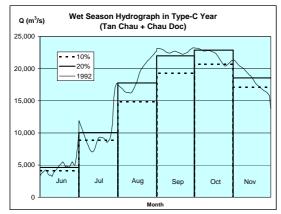
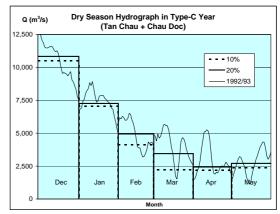
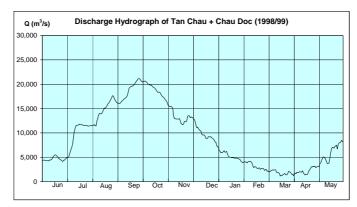


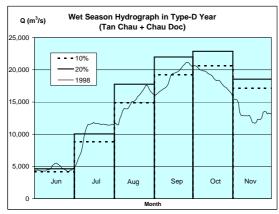
Fig. 6.46 Comparison of Annual Flow Regime to Drought Discharges at Tan Chau plus Chau Doc (1/3)











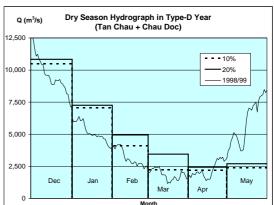
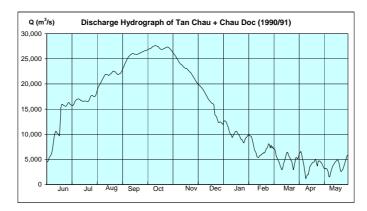
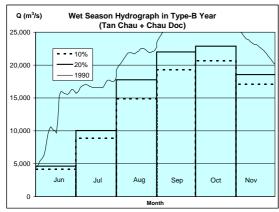
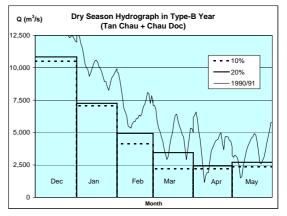
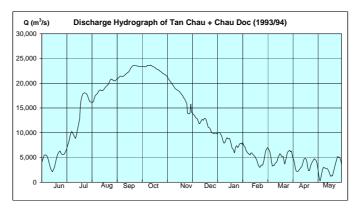


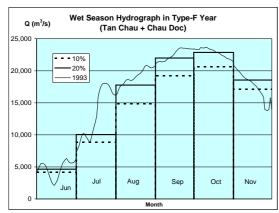
Fig. 6.46 Comparison of Annual Flow Regime to Drought Discharges at Tan Chau plus Chau Doc (2/3)











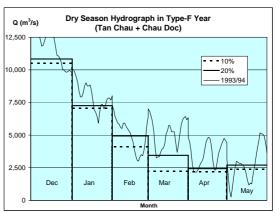


Fig. 6.46 Comparison of Annual Flow Regime to Drought Discharges at Tan Chau plus Chau Doc (3/3)