

4 METEOROLOGY AND HYDROLOGY

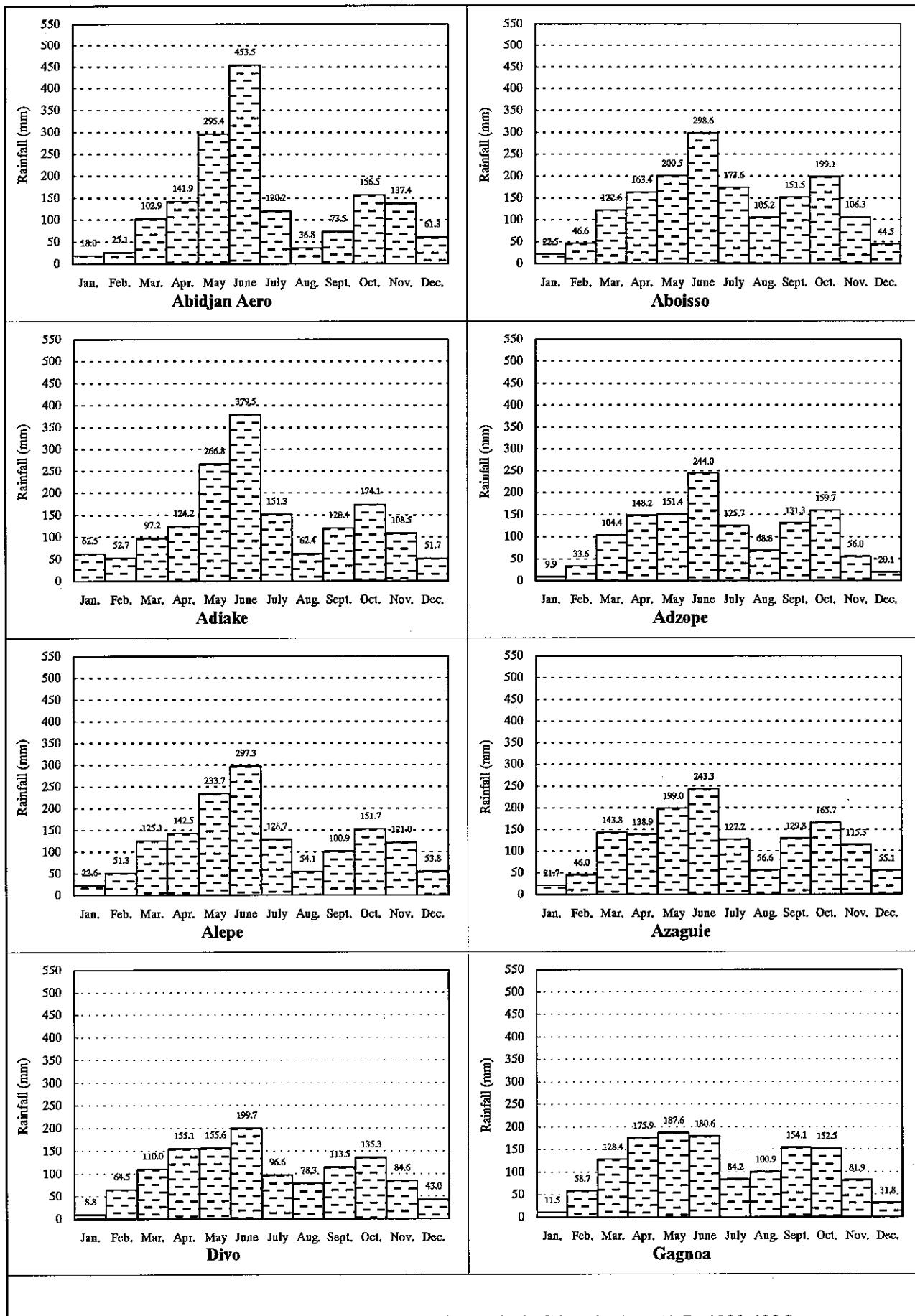
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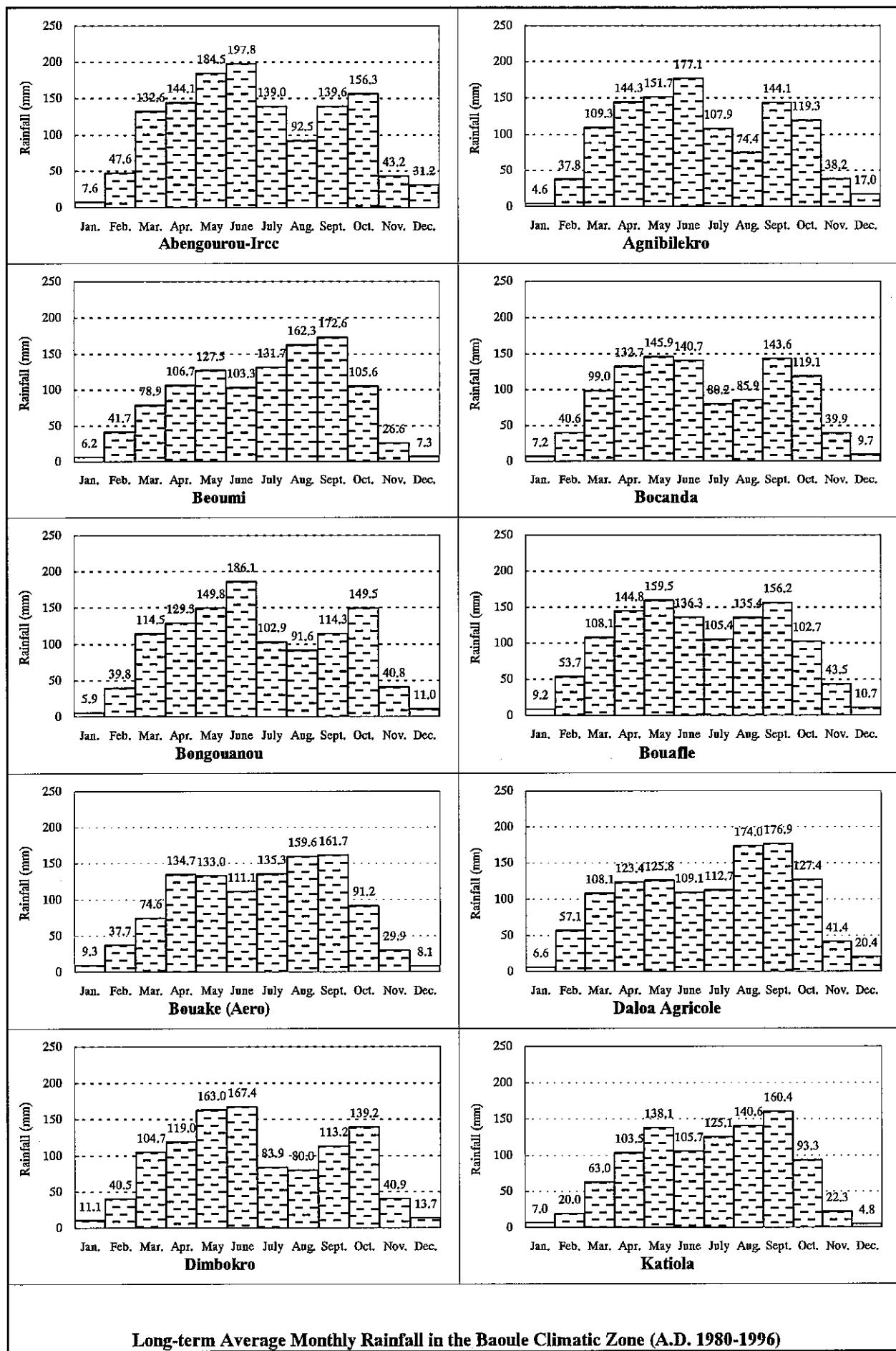
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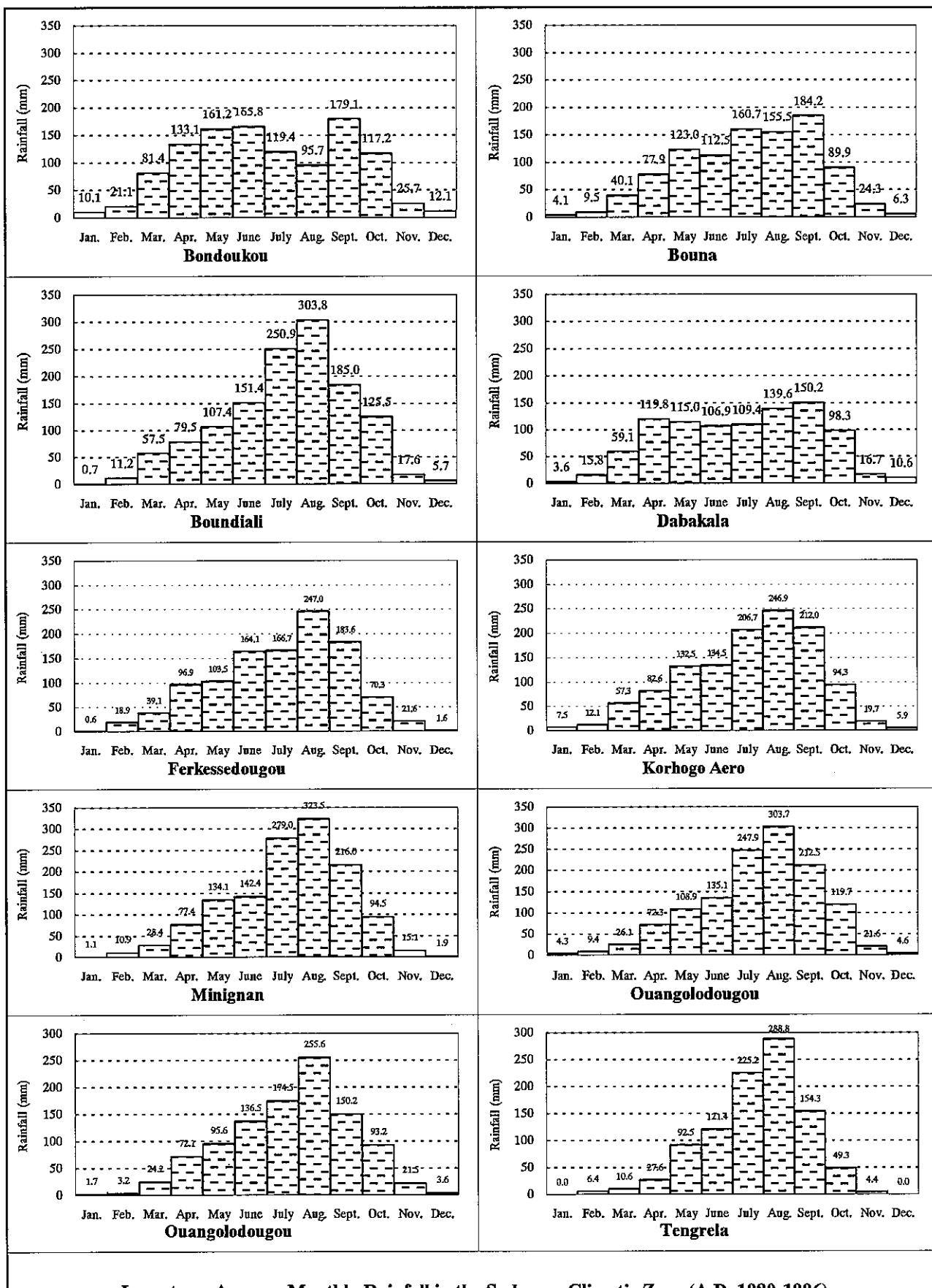
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CHAPTER 1 RAINFALL

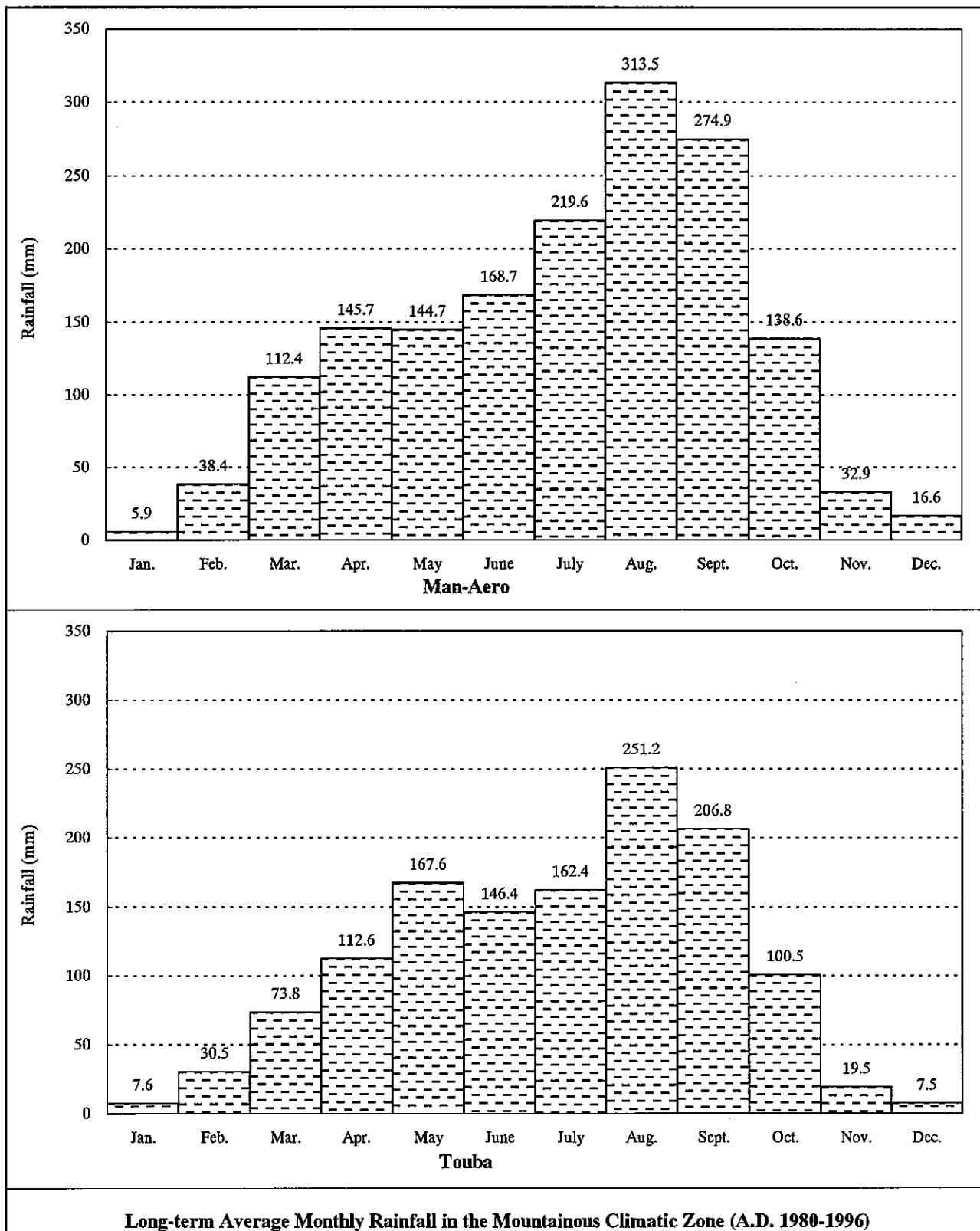
1.1 Figures

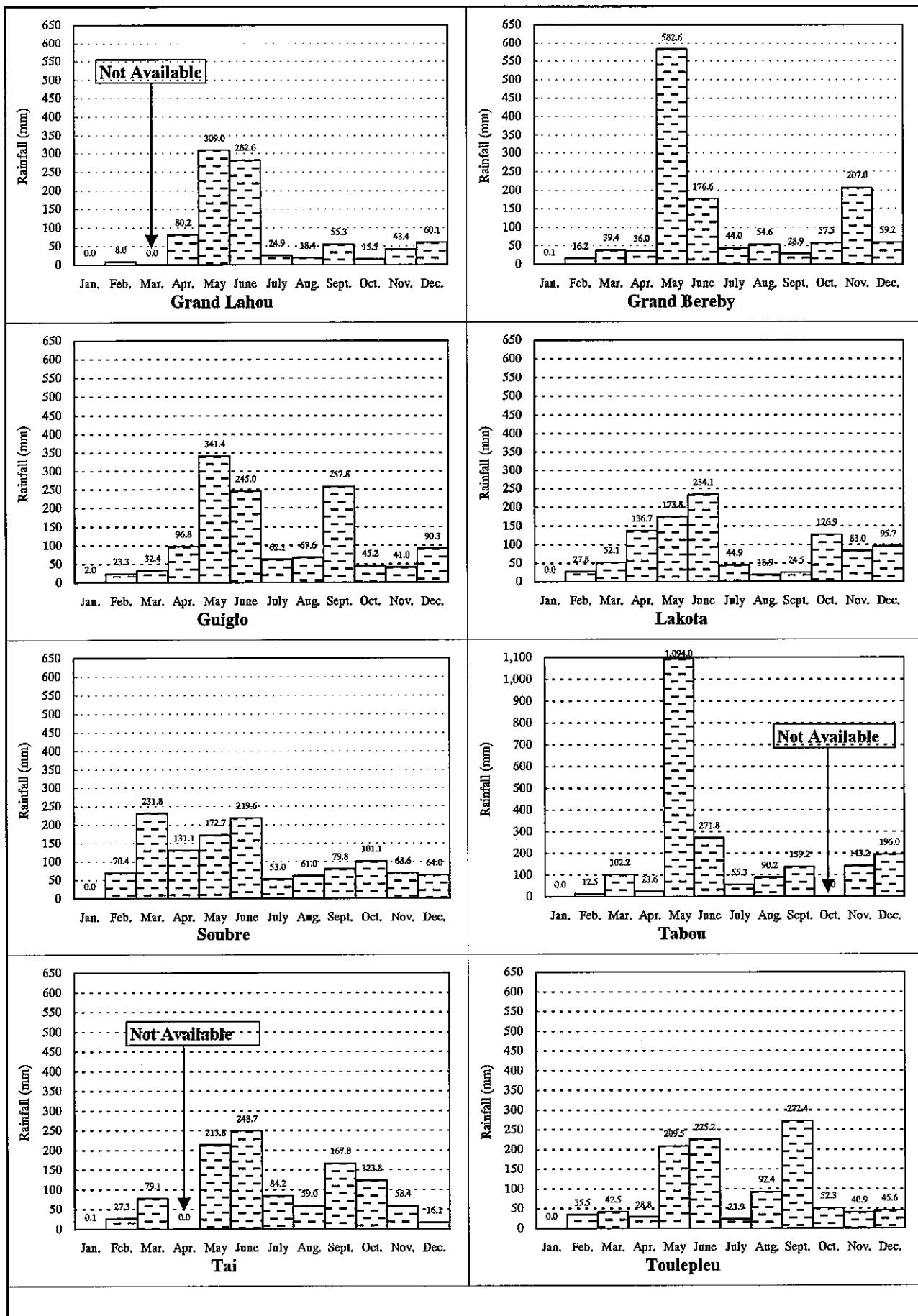


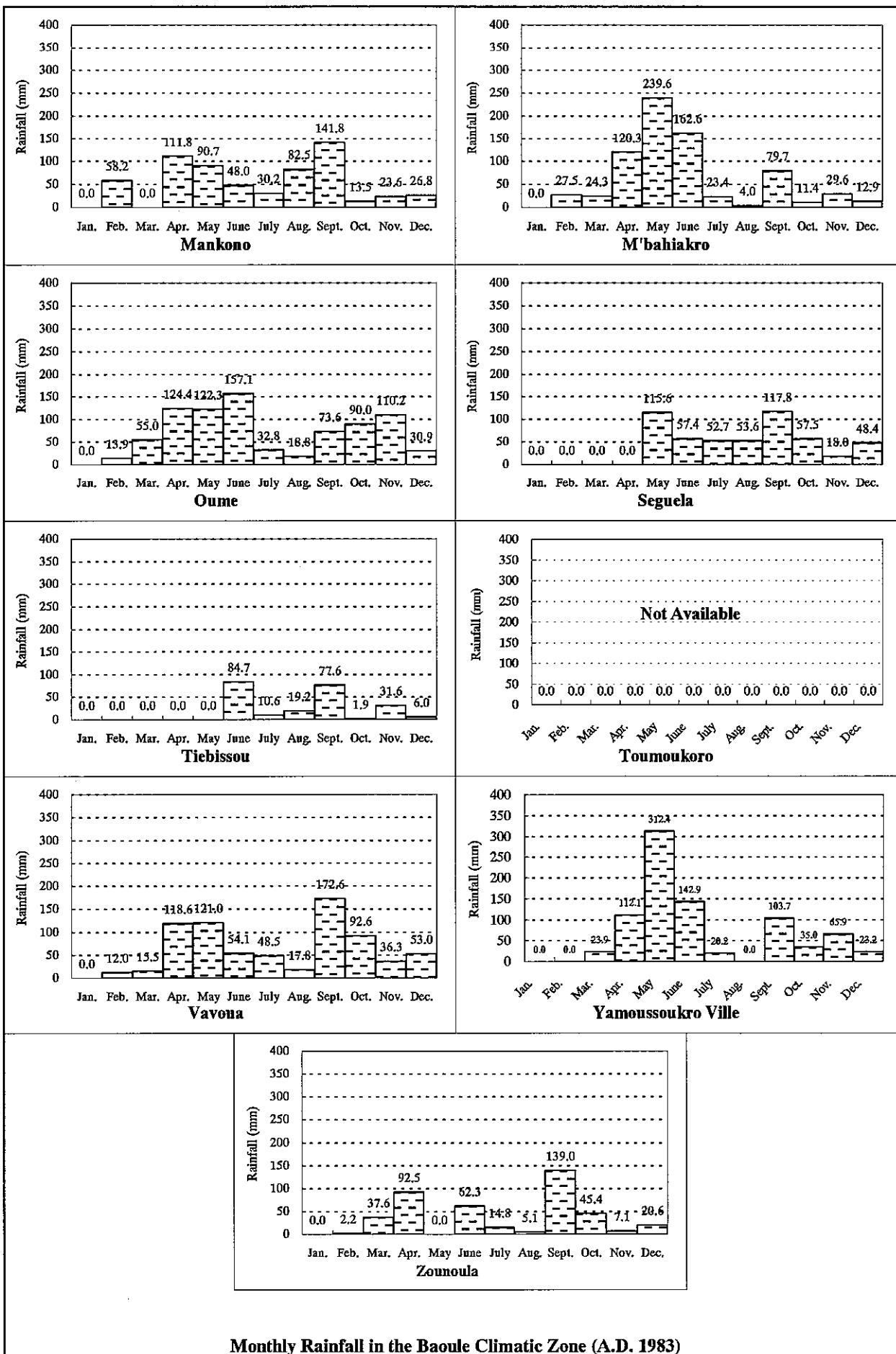




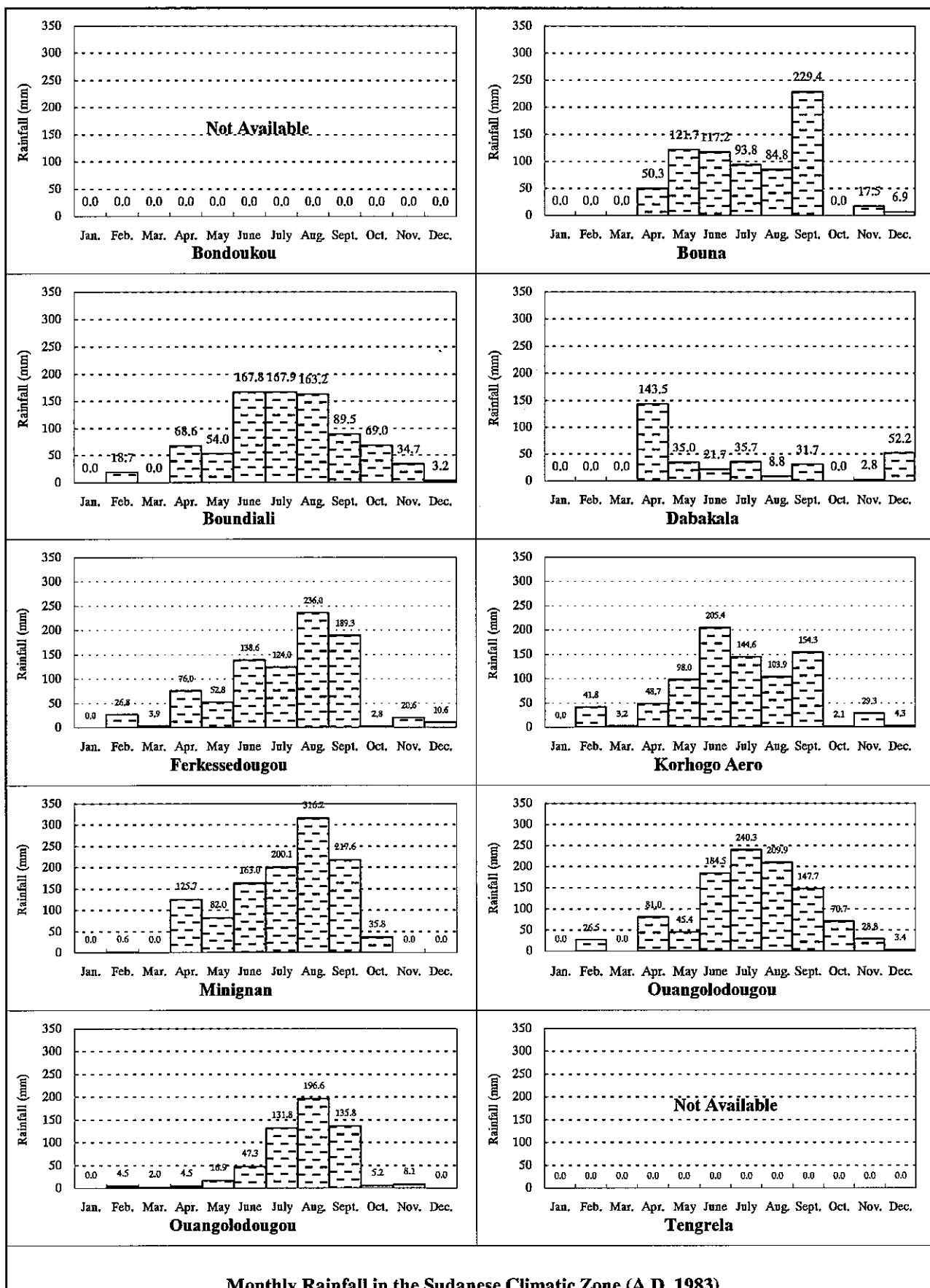
Long-term Average Monthly Rainfall in the Sudanese Climatic Zone (A.D. 1980-1996)



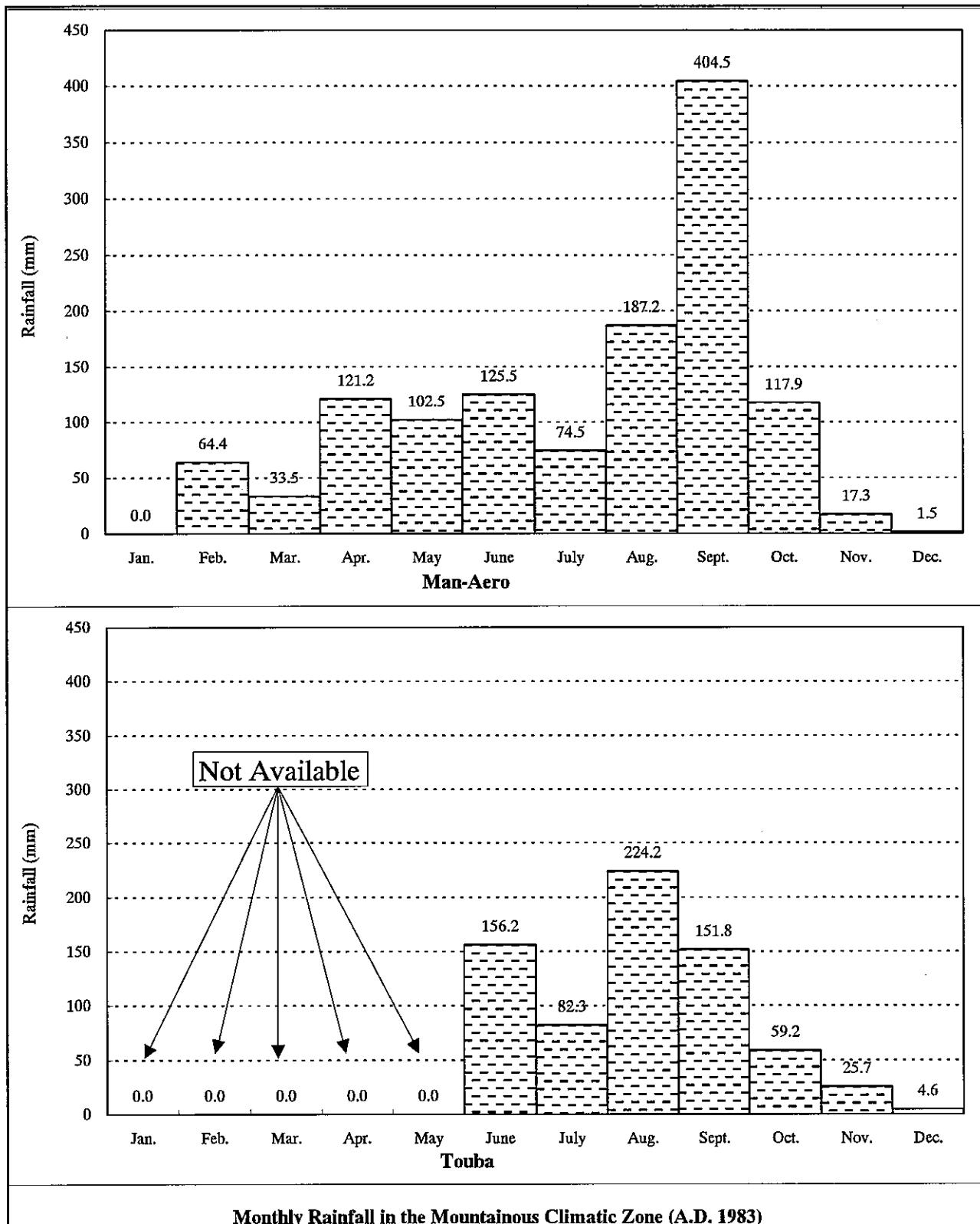




Monthly Rainfall in the Baoule Climatic Zone (A.D. 1983)



Monthly Rainfall in the Sudanese Climatic Zone (A.D. 1983)



CHAPTER 2 RUNOFF

2.1 Annual Runoff

Long-term Annual Mean Discharge of Existing Gaging Stations in the Sassandra River Basin

BASIN RIVER	SASSANDRA										SASSANDRA				BAO				DAVO				GUENON			
	GUESSABO	SEMENI	SOROTONA	SOURIE	SOURIE	GAUDOU	DABALA	NGOLODOUGOU	PIEBLY	ZAKUE	DAGBEOUROUA	BADALA	GUIDABOOU	DAKPADOU	RTE GAGNO-ESSIA	BOUNTOU	NIAMTOU	VIALADOUOU	DUKEOU	WANDOU	WANINOU (LMNG)					
1953	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1954	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1955	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1956	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1957	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1958	111.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1959	189.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1960	168.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1961	136.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1962	223.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1963	291.7	309.6	206.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1964	-	312.6	226.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1965	242.8	-	296.2	199.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1966	244.1	246.9	-	127.5	686.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1967	202.4	253.3	-	-	386.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1968	291.1	294.8	-	-	-	737.6	-	899.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1969	226.2	270.8	-	-	-	449.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1970	140.0	194.9	-	-	-	334.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1971	139.1	179.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1972	-	199.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1973	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1974	143.3	-	-	-	-	100.5	-	299.7	346.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1975	160.8	-	-	-	-	97.8	-	266.9	319.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1976	123.3	-	-	-	-	-	-	-	-	352.4	102.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1977	-	-	-	-	-	187.9	-	-	-	473.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1978	156.4	-	-	-	-	206.9	-	-	-	321.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1979	236.6	-	-	-	-	536.5	-	-	-	614.1	141.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1980	-	193.8	-	-	-	109.9	-	227.6	-	264.8	45.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1981	-	208.6	-	-	-	146.6	-	-	-	137.9	58.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1982	-	211.1	-	-	-	136.4	-	347.2	435.8	132.6	71.4	-	228.5	-	-	-	-	-	-	-	-	-	-	-	-	
1983	-	-	-	-	-	96.7	-	64.6	292.1	-	372.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1984	-	-	-	-	-	141.1	84.2	96.1	93.2	-	85.4	-	39.5	158.8	156.4	52	45.5	2.7	33.7	8.5	12.4	16.1	24.5	-	43.2	
1985	-	-	-	-	-	131.1	-	-	-	547.8	-	-	-	227.9	229.9	5.5	63.7	-	43.5	-	-	-	-	-	-	
1986	-	-	-	-	-	76.6	-	-	-	343.0	79.9	-	38.3	136.4	136.8	1.3	40.0	1.7	20.6	5.6	14.2	-	-	-	1.4	
1987	-	-	-	-	-	140.1	68.5	269.0	-	364.1	-	35.8	152.5	-	3.5	46.2	32	29.3	7.0	19.4	-	-	-	-	-	
1988	-	-	-	-	-	187.4	106.0	313.8	-	431.2	-	38.2	218.2	-	2.7	52.4	3.5	-	-	16.7	-	-	-	-	1.7	
1989	-	-	-	-	-	171.4	99.7	333.1	-	-	-	-	-	-	-	61.1	-	-	-	15.4	-	-	-	-	29.5	
1990	-	-	-	-	-	130.9	80.1	233.0	-	-	-	-	-	-	-	2.5	2.9	45.5	2.7	-	-	-	-	26.4		
1991	-	-	-	-	-	120.5	61.5	226.8	-	-	-	-	-	-	-	4.6	42.0	3.6	-	6.0	-	-	-	-	17.3	
1992	-	-	-	-	-	161.5	-	-	-	-	-	-	-	-	-	2.1	53.0	1.8	-	1.9	-	-	-	-	23.3	
1993	-	-	-	-	-	173.4	89.4	-	-	-	406.9	96.6	-	-	-	4.9	-	30.9	3.0	-	-	-	-	-	15.7	
1994	-	-	-	-	-	257.0	335.0	-	-	-	516.0	151.0	57.2	299.0	-	5.8	79.0	2.8	23.9	3.3	20.5	-	-	-	44.8	
1995	-	-	-	-	-	216.0	129.0	493.0	-	-	-	-	-	-	-	5.7	76.5	3.9	38.2	9.6	-	-	-	-	38.2	

Long-term Annual Mean Discharge of Existing Gauging Stations In the Sassandra River Basin

BASIN RIVER	LOBO			NZO			GUERI			KO			SASSANDRA			TEMBA			SIEN			NAFANA-SIENSO (LMNG)			KANHASSO (LMNG)			DROU (DROUE)		
	STATION	NUBEHIBE (NIBEGBEBU) (LMNG)	LOHOVILLE	GUIGLO	KAHIN	KAHIN (LMNG)	ZOBA	DIABOUO	GAGNOA	LOGOUALE	MAN	DIOLUATTEDOUGOU	LILIE	LILIE (LMNG)	KANHASSO	KANHASSO (LMNG)	NAFANA-SIENSO (LMNG)	NAFANA-SIENSO (LMNG)	MASSADOUGOU	DE MAN (LMNG)	DENT DE MAN	DENT DENT (LMNG)	DENT DENT (LMNG)	DENT DENT (LMNG)	DENT DENT (LMNG)	DENT DENT (LMNG)	DROU (DROUE)			
1953	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1954	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1955	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1956	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1957	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1958	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1959	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1960	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1961	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1962	9.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1963	28.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1964	12.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1965	6.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1966	31.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1967	7.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1968	33.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1969	8.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1970	8.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1971	12.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1972	7.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1973	10.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1974	8.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1975	10.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1976	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1977	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1978	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1979	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1980	25.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1981	5.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1982	5.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1983	0.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1984	5.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1985	12.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1986	3.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1987	15.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1988	6.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1989	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1990	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1991	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1992	4.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1993	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1994	11.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1995	22.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			

Long-term Annual Mean Discharge of Existing Gauging Stations in the Bandama River Basin

BASIN RIVER	BANDAMA										MARIKOUE-KORHOUE									
	BANDAMA (BLANC)	SEQUENCIELE (LAMBE)	TAWARA	TONTIA	KOHOGO-MBENGUE	KOHOGO-MBENGUE	KOHOGO-MBENGUE	KOHOGO-MBENGUE	MANKONO (LAMBE)	MANKONO (LAMBE)	MANKONO (LAMBE)	MANKONO (LAMBE)								
STATION	RTE BADA	KORHOGO-BADIKHA	BAPCAO	BRUMBO	DOUTIOU	SINEKATI	KOUKRO	MARABIASA	SEQUENCIELE (LAMBE)	TAWARA	TONTIA	KOHOGO-MBENGUE	KOHOGO-MBENGUE	KOHOGO-MBENGUE	KOHOGO-MBENGUE	MANKONO (LAMBE)	MANKONO (LAMBE)	MANKONO (LAMBE)	MANKONO (LAMBE)	
AREA	24,050	9,450	27,100	32,350	27,800	32,200	32,400	22,600	22,293	368	366	61,450	53,375	14,500	1,933	12,530	19,500	6,700	6,700	
1951	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17,14
1952	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1954	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1955	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1956	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1957	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1958	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1959	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1960	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1961	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1962	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1963	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1964	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1965	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1966	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1967	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1968	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1969	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1970	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1971	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1972	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1973	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1974	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1975	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1976	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1977	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1978	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1979	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1980	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1981	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1983	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1984	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1985	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1986	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1987	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1988	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1989	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1990	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1991	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1992	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1993	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1995	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Long-term Annual Mean Discharge of Existing Complying Structures in the Barwon River Basin

Long-term Annual Mean Discharge of Existing Gauging Stations in the Cotter

Long-term Annual Average Discharge of Existing Gauging Stations in the Cavally River Basin

BASIN	CAVALLY								NIOULO (ODRENISROU)	
RIVER	CAVALLY						HANA	N'CE	NEKA	
STATION	FETE	FLAMPLEU	ITY	TAI	TATE	TOULEPLEU (SAIHIBLI)	NIEBE	TAI	NEKAOUNIE	TIEOULEOULA
AREA (km ²)	26600	2470	3923	13750	28800	4670	4230	1240	350	106
1955		-		-				-		
1956		-		137.1				16.7		
1957		-		292.6				50.6		
1958		28.4		-				-		
1959		-		-				-		
1960		-		-				-		
1961		28.9		-				-		
1962		-		-				-		
1963		-		-				-		
1964				-				-		
1965				-				-		
1966				-				-		
1967				-				-		
1968				-				-		
1969		-		177.1	-			20.8		
1970	-	49.9		-	-	-		-		
1971	-	-		-	-	41.4	-	-		
1972	-	-		110.6	-	-	-	14.6		
1973	-	28.6		103.7	-	48.4	-	12.4		
1974	416.4	35.5		131.2	-	51.4	-	17.8		
1975	-	38.2		109.1	-	54.6	-	12.2		
1976	-	36.2		143.5	-	55.2	-	27.1		
1977	-	-		205.2	-	-	-	-		
1978	-	38.9		-	-	60.7	73.3	-		
1979	561.1	43.7		213.7	585.5	-	96.6	29.4	8.3	1.8
1980	599.9	42.0	-	234.9	627.9	-	86.4	-	11.2	1.8
1981	411.5	34.0	-	158.5	449.3	62.9	42.1	12.3	7.7	1.5
1982	-	28.8	49.1	139.3	-	56.6	46.0	15.3	5.6	1.2
1983	192.7	26.7	38.1	75.9	201.6	40.3	20.2	6.1	5.6	0.4
1984	565.4	27.9	45.9	155.2	585.7	56.1	96.8	-	13.2	2.5
1985	505.4	38.2	64.9	194.5	524.3	77.1	68.7	-	8.8	-
1986	251.4	17.8	35.4	88.9	253.4	39.0	28.7	10.0	4.3	1.0
1987	-	23.6	47.0	142.8	507.6	-	74.2	18.7	8.7	2.1
1988	532.6	34.1	64.6	165.3	-	-	58.7	21.8	10.6	1.3
1989	-	35.5	56.7	180.4	-	67.0	76.1	22.6	9.1	1.9
1990		27.8	51.9	-	-	-	-	6.8	7.3	1.0
1991		29.6	55.8	-	-	-	-	21.6	7.4	1.7
1992	-	41.5	58.3	-	285.7	-	36.9	10.3	-	1.1
1993	379.1	26.4	-	127.0	375.0	57.1	40.2	15.2	-	1.3
1994	555.8	54.9	-	180.1	564.7	-	59.6	-	-	1.6
1995	629.0	55.6		-	621.0	103.0	72.3	-	8.8	2.4

Long-term Annual Mean Discharge of Existing Gauging Stations in the Volta River Basin

BASIN RIVER STATION	VOLTA			
	VOLTA NOIRE VONKORO	GBANLOU KOKPINGUE	KOULDA POUON	GOUGOULO DOROPO
1964				-
1965				4.0
1966				3.5
1967				-
1968				6.4
1969				-
1970				-
1971				-
1972				-
1973				-
1974				-
1975				-
1976				-
1977				-
1978	-			-
1979	-			-
1980	-			-
1981	-			-
1982	58.5			-
1983	43.8	-	-	-
1984	41.2	0.9		-
1985	163.3	1.4		-
1986	104.9	0.9	-	-
1987	121.8	1.7	-	-
1988	137.0	1.0	-	-
1989	-	2.8	-	-
1990	-	0.6		-
1991	-	3.8		-
1992	63.5	0.1		-
1993	-	0.2		-
1994	170.6	0.0		-
1995	94.6	0.9	-	-

2.2 Monthly Average Runoff

Long-term Monthly Average Discharges of Existing Gauging Stations in the Conoe River Basin

Basin Name	River's Name	Station Name	Catchment Area (km ²)	Monthly Discharge (m ³ /s.)								Annual (m ³ /s)	Period				
				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep					
Conoe	Conoe	Abradinou	74,350	6.57	2.80	2.03	7.89	23.64	45.88	82.91	197.63	403.41	384.15	106.46	22.52	107.16	'82-'95
		Akakomoekro	57,000	2.66	0.62	1.18	1.88	10.20	17.35	68.39	184.25	538.95	320.85	131.14	12.65	107.51	'56-'95
	Ganse	43,700	1.78	0.78	0.84	2.97	9.12	21.91	68.24	240.38	502.81	290.62	67.76	8.93	101.35	'76-'95	
	Ganse (LMNG)	0.83	0.19	0.37	0.94	5.57	23.20	83.82	274.40	677.60	260.75	49.88	7.09	115.39	'84-'89		
	Aniassue Pont	66,500	13.73	6.11	5.12	10.30	22.77	63.33	122.96	317.74	742.13	638.66	178.35	46.33	180.63	'53-'95	
	Aniassue Pont (LMNG)	24.27	10.18	7.75	24.68	36.08	88.74	187.55	457.94	1,050.67	930.00	268.11	79.07	263.75	'64-'71, '76		
	Kafolo	21,200	1.71	0.78	0.47	1.27	4.44	13.81	35.60	168.45	289.90	130.33	25.17	4.91	56.40	'72-'95	
	M'Basso	70,980	10.17	4.43	4.70	9.77	20.91	68.65	118.27	289.34	662.97	588.21	156.29	35.55	164.11	'55-'95	
	Serebou	49,000	9.72	3.99	2.68	5.82	13.82	33.54	85.77	308.98	683.21	455.38	120.66	27.34	145.91	'63-'95	
Ba	N'Dakro	6,222	0.47	0.12	0.20	1.41	3.99	5.43	9.95	5.72	10.90	22.40	5.95	1.22	5.64	'83-'95	
Diore	Karakro	4,863	0.08	0.02	0.03	0.11	0.55	2.82	8.84	4.86	12.59	29.85	8.16	0.82	5.73	'83-'95	
Iringou	Tehini	2,155	0.23	0.09	0.06	0.26	1.06	2.28	5.60	10.89	17.74	11.33	2.07	0.58	4.35	'79-'95	
	Tehini (LMNG)	0.00	0.00	0.00	0.25	0.44	0.57	1.35	6.61	13.53	11.70	1.18	0.57	0.09	3.02	'84-'87	
	Nassian	1,157	0.00	0.00	0.00	0.02	0.07	1.50	6.95	11.88	6.94	0.95	0.09	0.02	1.73	'77-'87	
Kolonoko	Nassian (LMNG)	0.00	0.00	0.00	0.00	0.04	0.12	1.16	7.21	8.75	3.07	0.41	0.02	0.02	0.02		
	Bokakokore	1,670	0.21	0.12	0.13	1.37	4.23	7.56	8.20	4.97	7.50	9.51	4.35	1.54	4.14	'83-'95	
	Yehouakro	2,746	0.23	0.07	0.11	0.17	0.92	1.57	3.51	3.71	5.66	8.88	2.99	0.71	2.38	'80-'95	
Nengue	Bouroukro	1,384	0.16	0.05	0.34	0.56	1.06	2.27	1.45	3.72	5.31	0.97	0.37	1.36	1.36	'83-'95	
	ESSIKRO	1,257	0.03	0.00	0.02	0.38	1.22	2.23	1.76	5.77	7.70	1.68	0.23	1.75	1.75	'83-'95	
	Bimbe	Yaobø	118	0.00	0.00	0.01	0.03	0.12	0.19	0.08	0.34	0.40	0.01	0.00	0.10	'83-'95	

Long-term Monthly Average Discharges of Existing Gauging Stations in the Coastal Region's Basin

Basin' Name	River's Name	Station Name	Catchment Area (km ²)	Monthly Discharge (m ³ /s)												Annual (m ³ /s)	Period
				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
Afemby	Agnehy	Agboville	4,600	0.35	0.20	0.54	1.94	5.71	18.26	21.98	6.62	9.88	17.49	6.72	1.34	7.59	'55-'68, '70, '79-'95
		Agboville Barrage		0.00	0.00	0.12	0.50	3.99	9.38	12.08	4.97	7.95	16.61	5.51	2.04	5.26	'83-'94
		Agboville Barrage (LMNG)	0.02	0.00	0.14	0.52	1.92	6.43	14.14	9.94	10.32	27.61	4.33	0.83	6.35	'83-'89	
		Nieky (Bambous)	7,850	16.31	17.46	18.55	22.72	37.16	100.49	150.83	50.36	40.88	64.88	57.29	32.26	50.93	'55-'69
	M'Podi	M'Podi	6,925	3.31	1.97	2.71	7.10	13.40	62.73	103.19	40.11	31.27	51.79	46.42	13.77	31.48	'61-'74
		Ouffolognie	4,770	0.17	0.09	0.36	1.17	5.55	13.28	15.80	5.24	8.58	16.37	8.39	0.83	6.32	'83-'95
		M'Besse	1,050	0.28	0.22	0.37	1.19	3.72	13.89	12.04	4.23	5.70	5.40	3.30	0.99	4.28	'59-'95
	Manso	Guessiguié	93	0.11	0.05	0.08	0.16	1.07	3.05	1.86	0.52	0.81	1.56	1.30	0.65	0.94	'60-'71, '77-'95
		Guessiguié (LMNG)		0.14	0.08	0.12	0.20	1.34	3.56	2.15	0.58	0.86	1.46	1.33	0.77	1.05	'60-'82
Me	Dodo	Weoulo (Ouaoulo)	640	3.32	3.31	5.99	5.36	10.46	23.79	11.99	10.66	16.14	16.63	10.92	5.99	10.38	'74-'95
		Alepe	4,140	9.84	9.23	10.04	14.82	38.72	135.74	117.36	33.66	39.28	67.77	54.15	19.06	45.81	'57-'78, '94
	Lobo	Lobo Akoudzin	1,274	0.37	0.19	0.31	1.25	6.73	29.29	15.56	4.10	7.31	17.33	6.90	1.86	7.60	'83-'95
		Yakasse-Me	954	0.32	0.10	0.21	0.71	6.36	12.68	10.94	2.69	3.90	9.06	5.81	1.58	4.53	'84-'95
	Maoussan	Lobo	453	0.09	0.05	0.08	0.37	2.04	4.10	2.89	1.00	1.51	3.12	1.29	0.60	1.43	'83-'95
		Dathiri	1,791	1.35	0.46	2.07	4.65	8.89	31.51	16.09	9.05	12.39	21.80	13.66	4.58	10.54	'82-'95
	Ntoumiorou	Zakpabéri	300	0.12	0.04	0.48	0.83	1.28	4.17	1.76	1.14	1.52	2.32	1.71	1.13	1.38	'83-'95
		Fae	2,127	3.32	2.83	7.82	12.38	24.21	52.55	23.50	24.94	31.76	39.73	20.84	8.91	21.07	'83-'95
	San Pedro	Station Pompage de San Pedro	3,300	13.36	17.53	16.40	19.79	37.32	95.23	57.86	27.78	40.50	55.69	43.03	20.33	37.07	'69-'95
		Barrage Grah	2,427	2.51	2.45	6.69	14.23	27.49	55.12	22.50	11.10	22.75	44.97	42.96	14.46	22.27	'83-'95
Nero	Rte Grand Béréby	Rte Grand Béréby	1,210	3.36	4.70	5.99	6.94	17.42	42.75	19.28	13.65	19.87	25.13	17.01	9.35	15.45	'71-'95
		Rte Grand Béréby (LMNG)		4.30	5.94	8.23	5.84	6.71	37.10	16.40	14.50	21.10	29.65	20.45	12.01	15.19	'71-'74, '78
	Tabou	Oiodio	338	4.94	4.66	4.07	4.10	6.65	11.59	8.58	7.97	12.85	16.24	12.47	8.32	8.54	'83-'95
		Yaka	810	10.28	9.96	13.67	13.38	33.68	58.57	37.03	24.95	30.95	42.66	28.95	18.48	26.88	'62-'95
Bi	Yaka (LMNG)		8.88	7.52	8.22	7.48	13.92	27.05	29.70	25.09	27.06	37.00	18.55	14.90	18.78	'83-'86	
		Ahoisso	9,650	19.99	22.16	48.05	65.20	93.01	155.57	168.21	72.03	77.85	143.43	113.41	45.45	85.36	'49-'66
	Ayame		9,320	13.45	9.63	25.69	47.08	82.14	193.00	184.51	42.87	66.98	164.67	108.73	42.30	81.75	'52-'57, '59
		Pont de Bianouan	6,770	4.06	2.25	9.40	18.32	29.97	79.50	86.43	43.51	56.97	75.51	52.34	11.52	39.15	'62-'83
Boubou	Bianouan Aval		6,800	0.77	0.37	1.60	5.80	18.05	35.10	39.57	17.11	21.87	36.47	17.39	3.60	16.47	'81-'95
		Babokon	3,411	0.69	0.29	1.31	3.20	9.78	24.11	20.54	11.90	14.18	21.39	11.82	3.69	10.24	'82-'95
	Divo		3,070	2.61	1.21	6.36	8.60	14.65	34.10	29.10	13.28	26.49	25.94	10.41	7.70	15.04	'56-'66

Long-term Monthly Average Discharges of Existing Gauging Stations in the Cavally River Basin

Basin' Name	River's Name	Station Name	Catchment Area (km ²)	Monthly Discharge (m ³ /s)												Annual Period (m ³ /s)	
				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
Cavally	Cavally	Fete	26,600	118.93	107.37	141.37	171.84	329.30	637.14	439.16	547.52	1,051.81	1,016.21	524.06	254.89	446.63	'70-'89, '92-'95
		Flampleu	2,470	8.28	5.19	8.16	11.56	14.44	26.64	49.34	82.65	114.13	83.23	41.03	16.10	38.40	
	Ity		3,293	7.68	4.95	6.50	9.12	16.03	26.48	62.85	109.21	182.36	126.18	53.94	22.04	52.28	'80-'94
	Tai		13,750	40.18	23.00	32.57	38.93	70.58	166.27	177.69	240.89	468.29	447.10	221.45	87.85	167.90	155-'95
	Tate		28,800	143.99	102.75	134.08	213.22	415.27	709.00	556.22	578.40	1,062.04	1,108.81	521.76	264.08	484.14	163-'95
	Toulepleu (Shibibil)		4,670	10.05	5.49	5.82	9.40	19.20	39.53	69.80	120.00	180.10	160.91	67.25	23.84	59.28	'70-'95
	Hana	Niebe	4,230	10.07	8.37	17.35	32.41	65.32	106.73	57.11	85.48	118.10	135.50	65.79	29.54	60.98	'71-'89, '91-'95
	NCe	Tai	1,240	4.50	3.03	5.82	5.03	9.42	24.56	23.35	25.27	67.44	62.55	24.95	9.63	22.13	'55-'95
Nekoune	Nekounie		350	3.20	3.35	5.18	6.22	11.07	13.44	7.54	7.69	12.76	14.21	10.59	6.18	8.45	'79-'95
	Nioulo (Ondrenisrou)	Tieouleoula	106	0.25	0.23	0.33	0.45	1.14	2.07	1.36	2.33	4.21	3.98	1.73	0.67	1.56	'79-'95

Long-term Monthly Average Discharges of Existing Gauging Stations in the Volta River Basin

Basin' Name	River's Name	Station Name	Catchment Area (km ²)	Monthly Discharge (m ³ /s)												Annual Period (m ³ /s)
				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Volta	Volta Noire	Vonkoro	111,500	9.0	5.6	3.8	3.9	15.3	50.2	112.3	289.6	465.1	208.8	85.6	24.4	99.9 '78-'95
	Gbanlou	Kokpingne	464	0.0	0.0	0.1	0.0	0.1	0.3	1.9	2.4	4.5	3.5	0.6	0.1	1.2 '83-'95
	Koulda	Pouyon	1,140	-	-	0.1	0.1	0.2	0.2	0.3	1.2	7.0	7.5	-	0.0	1.8 '83, '86-'89, '95
	Gougoulo	Poropo	285	1.9	0.7	0.2	0.0	0.4	1.3	4.9	8.1	15.0	9.6	4.9	3.3	4.6 '64-'70

2.3 Probable Discharge

The Estimated Probable Flood Discharges for The Control Points

Basis Name		Cavally		The Cuvilly		The Saussure		Saussure		The lobe	
River Name	Station	FLAMPIEU	TOILETTEU	TAN	TATE	DABALA	PIERLY	SCOURÉ	GAONDOU	BADALA (RATNODALA)	DIANKAROU
Return Period	C.A.	2,470 km ²	4,670 km ²	13,750 km ²	24,800 km ²	16,600 km ³	32,600 km ²	57,670 km ²	70,500 km ²	4,310 km ²	6,625 km ²
Return Period (Years)	2	222.8	223.8	787.0	1,916.9	598.3	1,099.3	1,487.0	1,846.3	128.7	350.4
	5	289.6	266.2	1,014.3	2,473.1	721.4	1,597.8	2,574.3	2,709.3	176.7	446.2
	10	294.3	299.2	1,151.6	2,575.0	786.6	1,940.6	3,313.4	3,230.7	201.3	523.0
	50	336.5	381.6	1,437.3	2,619.5	904.9	2,742.6	4,887.2	4,233.8	240.1	692.9
	100	356.9	420.9	1,546.9	2,631.5	946.6	3,068.8	5,519.7	4,697.1	251.9	483.1
	200	363.7	463.0	1,659.8	2,622.1	984.8	3,422.7	6,125.4	4,952.1	261.7	839.8
	1000	389.3	560.0	1,507.3	2,631.6	1,065.8	4,253.2	7,470.8	5,683.2	280.4	1,015.3

Basis Name		The Beudane		The Beudane		N'd		The Mandingue		The Boe	
River Name	Station	TAWARA	TORTIAYA	BADA	TLASSALE	RTE KATYOLA	MBAHIAKRO	DIMBONSO	ZIENOA (NTZANDA)	BOUALE	KOURIKORO
Return Period	C.A.	5,375 km ²	14,500 km ²	24,059 km ²	61,850 km ²	6,620 km ²	15,700 km ²	24,100 km ²	35,000 km ²	6,700 km ²	19,800 km ²
Return Period (Years)	2	113.3	314.8	508.1	1,005.4	121.1	247.2	233.1	340.5	247.1	275.8
	5	183.9	457.6	808.9	1,695.5	194.9	408.8	575.2	518.1	234.1	418.2
	10	225.3	526.8	969.8	2,179.1	213.5	482.9	465.0	623.6	367.2	787.7
	50	298.8	626.1	1,222.5	3,269.5	223.9	574.1	642.9	820.0	349.6	545.2
	100	321.4	652.9	1,396.8	3,732.0	224.5	594.1	769.9	990.1	362.8	588.7
	200	344.7	673.6	1,525.7	4,192.5	229.9	607.8	772.3	951.5	372.2	897.2
	1000	387.8	723.9	1,786.5	5,225.6	226.3	657.8	906.7	1,083.0	403.6	598.4

Basis Name		Cercos		The Cercos		The Ba		The Kourakédré		The Ba-Nigre	
River Name	Station	KAFOLLO	GANSE	AKAKOMOKERRO	ABRAJINOU	N'sako	IRABDOUGU	DJIRILA	DEBEDE	The Kankéba	The Ba-Nigre
Return Period	C.A.	21,200 km ²	43,700 km ²	57,000 km ²	74,350 km ²	6,222 km ²	1,990 km ²	3,670 km ²	5,550 km ²	4,740 km ²	9,950 km ²
Return Period (Years)	2	359.7	611.8	942.6	541.7	28.7	84.2	108.5	154.4	134.7	197.6
	5	597.5	1,063.3	1,622.7	884.2	54.8	108.5	253.1	327.5	203.8	314.6
	10	751.2	1,376.2	2,041.2	1,090.8	75.2	123.6	327.5	352.1	374.2	387.0
	50	1,095.4	2,058.8	2,839.8	1,483.5	126.8	154.9	513.6	583.9	519.4	600.6
	100	1,171.0	2,339.9	3,119.3	1,625.2	150.9	167.5	601.6	445.4	577.4	704.5
	200	1,278.7	2,612.7	3,167.8	1,754.0	175.7	179.9	695.5	511.3	633.6	817.0
	1000	1,512.5	3,236.5	3,993.1	2,029.9	229.9	207.8	927.8	684.5	760.3	1,117.1

Basis Name		Sal Pinto		The Tabou		The N'Goro		The Nicobieno		The Andely	
River Name	Station	SAN PIERRE	WEDDIL (QUAOUIC)	YAKA	FETE GRAND	GRAND LAHOU	DAHRI	AGBOVILLE	LOBO	AKOUDZIN	BAUDOUIN
Return Period	C.A.	3,300 km ²	640 km ²	810 km ²	1,210 km ²	1,411 km ²	1,791 km ²	4,680 km ²	1,274 km ²	6,800 km ²	2,100 km ²
Return Period (Years)	2	214.9	72.1	202.8	174.8	51.7	103.3	56.0	188.4	108.8	600.5
	5	275.9	83.9	257.4	200.9	58.9	142.5	108.9	233.9	130.5	829.2
	10	321.0	90.4	286.7	220.6	61.1	198.6	146.4	250.5	142.6	965.5
	50	407.3	102.4	337.4	224.7	63.2	181.9	227.8	267.9	164.6	1,228.5
	100	442.7	106.7	354.7	227.9	63.5	187.3	260.5	271.2	172.6	1,327.2
	200	477.8	110.7	370.0	230.3	63.7	191.0	291.7	273.2	179.9	1,419.8
	1000	555.6	118.7	401.2	236.5	64.3	203.2	362.2	280.4	193.9	1,618.5

Note: C.A. means return period. Figures to be taken below the catchment area shown on the map of study.

Estimated Probable Draught Discharges

BADA (Bandama River)	
Return Period (Year)	Probable Value
2	1,012
5	465
10	238
15	142
20	86
25	48

GAOULOU PONT (Sassandra River)	
Return Period (Year)	Probable Value
2	5,230
5	4,085
10	3,717
15	3,585
20	3,514
25	3,470
30	3,439
40	3,398
50	3,372
60	3,354
80	3,330
100	3,314
200	3,280
300	3,267
400	3,260
500	3,256

KOUTO AVAL (Bagoe River, Bani-Niger)	
Return Period (Year)	Probable Value
2	394
5	230
10	153
15	118
20	97
25	82
30	71
40	54
50	43
60	34
80	22
100	13

DEBETE (Kankelaba River, Bani-Niger)	
Return Period (Year)	Probable Value
2	219
5	132
10	101
15	90
20	84
25	80
30	77
40	73
50	70
60	69
80	66
100	65
200	61
300	60
400	59
500	58

ABRADINOU (Comoe River)	
Return Period (Year)	Probable Value
2	1,341
5	794
10	488
15	332
20	229
25	154
30	95
40	6

BADALA/BAFINGDALA (Sassandra River)	
Return Period (Year)	Probable Value
2	671
5	505
10	424
15	387
20	364
25	348
30	335
40	317
50	304
60	294
80	280
100	270
200	243
300	230
400	221
500	215

IRADOUUGOU (Kouroukelle River, Bani-Niger)	
Return Period (Year)	Probable Value
2	203
5	142
10	114
15	103
20	95
25	90
30	87
40	81
50	78
60	75
80	71
100	68
200	61
300	58
400	56
500	54

KAFOLO (Comoe River)	
Return Period (Year)	Probable Value
2	715
5	377
10	215
15	141
20	95
25	62
30	38
40	2

Summary of Gauging Station

No.			Name of River	Station
1	Cavally	Ca-1	Cavally à Taté	Tate
2	"	Ca-2	Cavally à Toulépleu	Toulep
3	Sassandra	Sa-1	Tiembra à Dioulatiédougou	Dioula
4	"	Sa-2	Sassandra à Dabala	Dabala
5	"	Sa-3	Bafing à Badala	Badala
6	"	Sa-4	Sassandra à Piébli	Piebli
7	"	Sa-5	N'Zo à Kahin	Kahin
8	"	Sa-6	Labo à Nibéhibé	Nibehi
9	"	Sa-7	Sassandra à Soubre	Soubre
10	"	Sa-8	Sassandra à Gaoulou	Gaoulou
11	Bandama	Ba-1	Bandama à Tawara	Tawara
12	"	Ba-2	Bou à Boron	Boron
13	"	Ba-3	Bandama à Tortiya Amont	Tortiya
14	"	Ba-4	Bandama à Bada	Bada
15	"	Ba-5	Bandama à Tiassalé	Tiassale
16	"	Ba-6	Marahoué à Mankono	Mankono
17	"	Ba-7	Banoroni à Kouroukoro	Kourou
18	"	Ba-8	Marahoué à Zuénoula	Zuenou
19	"	Ba-9	Marahoué à Bouaflé	Bouaflé
20	"	Ba-10	N'Zi à Katiola	Rtekatio
21	"	Ba-11	N'Zi à M'Bahiakro	Mbahia
22	"	Ba-12	N'Zi à Dimbokro	Dimbokr
23	"	Ba-13	N'Zi à Ziénoua	Nzienoa
24	Comoe	Co-1	Comoé à Gansé	Ganse
25	"	Co-2	Comoé à Kafolo	Kafolo
26	"	Co-3	Comoé à Akakomoékro	Akacom
27	"	Co-4	Comoé à Abradinou	Abradin
28	Border River	Bo-1	Kouroukellé à Iradougou	Iradoug
29	"	Bo-2	Baoulé à Djirila	Djiri
30	"	Bo-3	Bagoé à Kouto Aval	Kouto Av
31	"	Bo-4	Kankélaba à Débété	Debet
32	"	Bo-5	Bagoé à Papara	Papara
33	"	Bo-6	Volta Noire à Vonkoro	Vonko
34	Coastal River	-	Dodo à Wéoulo	Weoulo
35	"	-	Néro à Rte Grand Béréby	Bereby
36	"	-	San Pédro à San Pédro	Spedro
37	"	-	Niouuniourou à Dahiri	Dahiri
38	"	-	Agnéby à Agboville	Agbovil
39	"	-	Mé à Alépé	Alepe
40	"	-	Mé à Loboakoudzin	Loboak
41	"	-	Tabou à Yaka	YAKA
42	"	-	Baya à Angoakro	Angoa
43	"	-	Bia à Bianouan	Bianoa
44	"	-	Boubo à Babokon	Babokon

Summary of Gauging Stations

No.			Name of River	Station
1	Cavally	Ca-1	Cavally à Taté	Tate
2	"	Ca-2	Cavally à Toulépleu	Toulep
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4	"	Sa-2	Sassandra à Dabala	Dabala
5	"	Sa-3	Bafing à Badala	Badala
6	"	Sa-4	Sassandra à Piébli	Piebli
7	"	Sa-5	N'Zo à Kahin	Kahin
8	"	Sa-6	Labo à Nibéhibé	Nibehi
9	"	Sa-7	Sassandra à Soubré	Soubre
10	"	Sa-8	Sassandra à Gaoulou	Gaoulou
11	Bandama	Ba-1	Bandama à Tawara	Tawara
12	"	Ba-2	Bou à Boron	Boron
13	"	Ba-3	Bandama à Tortiya Amont	Tortiya
14	"	Ba-4	Bandama à Bada	Bada
15	"	Ba-5	Bandama à Tiassalé	Tiassale
16	"	Ba-6	Marahoué à Mankono	Mankono
17	"	Ba-7	Banoroni à Kouroukoro	Kourou
18	"	Ba-8	Marahoué à Zuénoula	Zuenou
19	"	Ba-9	Marahoué à Bouaflé	Bouaflé
20	"	Ba-10	N'Zi à Katiola	Rtekatio
21	"	Ba-11	N'Zi à M'Bahiakro	Mbahia
22	"	Ba-12	N'Zi à Dimbokro	Dimbokr
23	"	Ba-13	N'Zi à Ziénoua	Nzienoa
24	Comoe	Co-1	Comoé à Gansé	Ganse
25	"	Co-2	Comoé à Kafolo	Kafolo
26	"	Co-3	Comoé à Akakomoékro	Akacom
27	"	Co-4	Comoé à Abradinou	Abradin
28	Border River	Bo-1	Kouroukellé à Iradougou	Iradoug
29	"	Bo-2	Baoulé à Djirila	Djiri
30	"	Bo-3	Bagoé à Kouto Aval	Kouto Av
31	"	Bo-4	Kankélabà à Débété	Debet
32	"	Bo-5	Bagoé à Papara	Papara
33	"	Bo-6	Volta Noire à Vonkoro	Vonko
34	Coastal River	-	Dodo à Wéoulo	Weoulo
35	"	-	Néro à Rte Grand Béréby	Bereby
36	"	-	San Pédro à San Pédro	Spedro
37	"	-	Niouniourou à Dahiri	Dahiri
38	"	-	Agnéby à Agboville	Agbovil
39	"	-	Mé à Alépé	Alepe
40	"	-	Mé à Loboakoudzin	Loboak
41	"	-	Tabou à Yaka	YAKA
42	"	-	Baya à Angoakro	Angoa
43	"	-	Bia à Bianouan	Bianoa
44	"	-	Boubo à Babokon	Babokon

Monthly Runoff

(No.1) Station : Taitung Main River CA = 28,800 km ²												Annual														
Jan.			Feb.			Mar.			Apr.			May			June			July			Aug.			Sept.		
m ³ /sec	MCM	m ³ /sec	MCM	m ³ /sec	MCM	m ³ /sec	MCM	m ³ /sec	MCM	m ³ /sec	MCM	m ³ /sec	MCM	m ³ /sec	MCM	m ³ /sec	MCM	m ³ /sec	MCM	m ³ /sec	MCM	m ³ /sec	MCM	m ³ /sec	MCM	
Mean	255.67	684.78	382.23	1,130.76	1,908.63	1,168.00	3,027.46	532.33	2,496.72	1,445.55	1,485.50	1,675.00	4,486.32	457.67	1,186.27	435.67	1,166.89	-	-	-	-	-	-	-	-	-
63~69	3.0	3	2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Mean	203.50	545.05	101.00	244.34	139.50	373.64	166.00	430.27	394.50	1,056.63	732.00	1,897.34	440.86	1,180.79	742.80	1,123.01	747.82	1,925.28	937.11	2,509.96	475.00	1,231.20	230.38	617.04	416.49	13,134.56
70~79	2	2	1	2	2	3	3	3	3	6	6	6	6	6	6	6	6	6	2	2	2	2	2	2	3	3
Mean	111.43	298.45	96.36	233.11	131.41	351.97	154.18	399.63	306.80	821.73	563.00	1,459.30	495.33	1,326.70	745.70	1,997.28	1,281.00	3,320.35	1,094.44	2,931.36	487.13	1,262.63	218.88	586.23	475.29	14,988.76
80~89	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	
Mean	146.60	392.65	103.45	230.27	138.07	369.81	195.86	507.66	363.86	974.55	578.71	1,500.03	480.43	1,286.78	542.14	1,452.08	1,026.29	2,660.13	1,151.88	3,085.18	663.43	1,719.61	296.43	793.95	475.42	14,992.71
90~97	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
Mean	124.62	333.78	99.02	239.55	134.15	359.32	171.34	444.12	330.29	884.66	569.88	1,477.12	488.81	1,309.24	661.88	1,772.79	1,169.56	3,031.51	1,121.47	3,003.75	569.49	1,475.88	255.07	683.17	476.12	15,014.86
80~97	16	16	16	16	17	17	17	17	17	17	17	17	16	16	16	16	16	16	16	16	16	16	16	16	16	
(No.2) Station : Toulepeu, Cavaill's River CA=4,670 Km ²												CA=2,790 Km ²												54.40		
Mean	9.35	25.05	5.80	14.03	4.99	13.35	10.28	26.63	17.80	47.66	45.82	118.77	64.84	173.67	102.51	274.56	153.88	398.84	151.33	405.33	63.06	163.44	20.29	54.34	54.40	1,715.70
70~79	9	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	9	
Mean	9.50	25.43	5.13	12.44	6.06	16.22	7.86	20.37	19.37	51.88	32.78	84.97	70.59	190.14	134.32	359.76	194.13	503.17	158.18	423.67	59.21	153.47	23.52	63.00	60.39	1,904.50
80~89	10	10	10	10	10	10	10	10	10	9	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10	
Mean	19.26	51.58	10.43	25.22	8.68	23.25	15.05	39.00	64.01	54.25	140.62	104.47	279.80	143.37	384.01	240.63	624.24	193.67	518.72	94.90	245.98	43.60	116.78	79.69	2,513.21	
90~97	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5	
Mean	13.16	35.24	7.12	17.21	7.04	18.86	10.73	27.82	21.18	56.74	40.83	105.89	83.54	237.6	138.05	369.75	214.14	555.06	171.49	459.31	73.91	191.56	30.21	80.92	67.92	2,142.07
80~97	16	16	16	16	16	16	16	15	15	15	16	16	16	16	16	17	17	14	14	16	16	16	17	17	15	
(No.3) Station : Duleiaidayoung, Tiembla River in Sessandia Basin CA=2,790 Km ²												CA=16,600 Km ²												17.07		
Mean	1.13	3.03	0.28	0.68	0.08	0.22	0.10	0.26	0.28	0.75	2.90	7.52	10.39	27.82	44.63	119.52	65.70	170.29	50.93	136.40	22.64	58.68	4.93	13.20	17.07	538.35
75~79	1	1	3	3	4	4	4	4	4	3	3	4	4	4	5	5	4	4	4	4	4	4	4	4	3	
Mean	0.86	2.29	0.34	0.83	0.23	0.61	0.11	0.30	0.23	0.62	1.15	2.97	10.31	27.61	47.19	126.39	74.70	193.67	70.03	261.00	3.07	8.23	14.72	46.45	10.12	3,188.93
80~89	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	
Mean	1.63	4.36	0.48	1.17	0.11	0.30	0.08	0.21	0.17	0.45	1.41	3.66	10.42	27.90	46.61	124.85	71.68	185.78	50.84	136.16	20.17	52.29	5.20	13.92	17.47	551.04
90~97	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
Mean	1.20	3.21	0.41	0.98	0.18	0.47	0.10	0.26	0.20	0.54	1.26	3.28	10.36	27.74	46.93	125.71	73.37	190.17	38.69	103.64	14.81	38.36	4.02	10.76	16.02	505.12
80~97	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	
(No.4) Station : Dabila, Batang River in Sessandia Basin CA=16,600 Km ²												CA=5,920 Km ²												538.35		
Mean	25.63	68.63	14.33	34.68	10.82	28.98	17.9	46.11	29.10	77.94	54.28	140.69	120.93	323.89	296.25	793.48	385.20	998.44	260.75	698.39	116.58	302.18	42.30	113.30	115.00	3,626.70
75~79	4	4	3	3	4	4	4	4	4	4	4	4	4	4	5	5	4	4	4	5	4	5	5	5	5	
Mean	16.16	43.27	11.58	28.02	11.34	30.37	13.44	34.83	24.84	66.54	33.91	87.90	110.75	296.63	308.70	826.82	388.90	1,008.03	179.30	480.24	71.10	185.07	27.10	72.58	101.12	3,188.93
80~89	9	9	7	7	6	6	6	9	9	10	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10	
Mean	16.65	44.60	9.41	22.77	7.25	19.42	15.35	39.89	22.41	59.56	43.06	111.62	58.93	157.82	211.88	567.49	283.25	734.18	194.25	520.28	91.74	237.80	34.54	92.52	121.87	3,843.20
90~97	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
Mean	16.39	43.90	10.42	25.22	9.00	24.11	14.34	37.17	23.66	63.44	38.22	99.06	84.84	227.23	265.67	711.56	341.94	886.32	185.94	498.03	81.04	210.05	30.63	82.03	108.56	3,423.53
80~97	17	17	15	15	14	17	17	18	18	18	17	17	16	16	18	18	18	18	18	18	18	18	18	18	18	
(No.5) Station : Dabila, Batang River in Sessandia Basin CA=5,920 Km ²												CA=32,600 Km ²												7.7		
Mean	19.22	51.47	15.69	37.95	17.48	46.82	24.09	62.43	27.06	72.48	58.58	151.83	71.90	192.58	116.96	313.26	216.57	561.35	161.50	432.56	89.89	232.99	43.44	116.36	71.28	2,247.92
62~69	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	7	7	7	6	6	8	8	8	7	7	
Mean	13.45	36.01	7.39	17.87	8.41	22.52	15.44	40.02	23.10	61.88	40.09	103.91	51.68	138.41	42.08	166.88	432.55	117.03	313.45	53.55	138.80	25.37	67.95	51.19	1,614.20	
70~79	10	10	7	7	9	9	9	9	8	8	8	8	8	8	9	9	9	9	9	10	10	10	10	10	10	
Mean	8.02	21.47	5.18	12.52	6.37	17.07	10.64	27.59	21.17	56.71	28.79	74.62	57.83	154.89	133.34	357.14	172.44	446.98	101.54	271.96	51.14	132.55	21.25	56.92	51.70	1,630.42
80~89	9	9	9	9	9	9	9	9	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	
Mean	14.94	40.02	9.51	23.00	12.79	34.25	22.35	57.93	26.58	71.18	58.54	151.73	76.17	204.02	124.16	332.54	200.58	519.89	158.37	424.18	77.40	200.62	36.06	96.58	68.36	2,155.94
90~97	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	7	7	7	6	6	8	8	8	7	7	
Mean	11.28	30.20	7.21	17.45	9.39	25.15	16.15	41.87	23.57	63.14	42.01	108.89	65.38	175.12	129.56	347.01	185.6									

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
	m ³ /sec	MCM	m ³ /sec	MCM	m ³ /sec	MCM	m ³ /sec	MCM	m ³ /sec	MCM	m ³ /sec	MCM	m ³ /sec
(No.7) Station: Kabin, N'zo River in Sassandra Basin		CA = 4,310 Km ²											
Mean	2.75	7.38	1.01	2.45	3.31	8.36	9.89	7.98	21.38	16.62	43.08	42.33	113.39
80~89	9	9	9	9	9	9	9	9	9	9	9	10	8
Mean	8.74	23.41	3.55	8.38	5.45	14.61	10.03	26.00	15.06	40.34	29.94	60.20	182.67
90~97	7	7	7	8	8	8	8	8	8	8	8	10	10
Mean	5.37	14.39	2.12	5.13	4.32	11.56	6.74	17.47	11.31	30.30	22.89	59.32	54.51
80~97	16	16	16	17	17	17	17	17	17	17	17	18	18
(No.8) Station: Niteliké, Lobo River in Sassandra Basin	CA = 7,290 Km ²												
Mean	1.15	3.07	0.73	1.77	1.11	2.97	1.97	5.10	3.01	8.07	11.95	30.98	13.12
61~69	9	9	9	8	8	9	9	9	9	9	9	9	9
Mean	0.61	1.62	0.64	1.35	0.77	2.07	1.79	4.65	2.70	7.22	11.13	28.65	7.76
70~79	9	9	9	8	8	9	8	8	8	8	8	8	8
Mean	0.26	0.70	0.15	0.37	0.38	1.55	1.13	2.92	1.64	4.39	9.34	3.86	10.35
80~89	10	10	10	10	10	10	10	10	10	10	10	10	10
Mean	0.30	1.35	0.25	0.61	0.80	2.15	1.73	4.48	3.50	9.38	3.12	8.08	6.46
90~97	6	6	6	6	6	6	6	6	5	5	5	5	5
Mean	0.35	0.94	0.19	0.46	0.66	1.78	1.35	3.50	2.26	6.05	3.44	8.92	4.73
80~97	16	16	16	16	16	16	16	16	15	15	15	15	15
(No.9) Station: Soufie, Sassandra Main River in Sassandra Basin	CA= 57,670 Km ²												
Mean	111.10	297.57	70.61	170.82	66.36	178.26	88.54	229.50	920.16	329.12	355.00	591.30	1,583.74
60~69	10	9	9	9	10	10	10	10	10	10	10	10	10
Mean	65.23	174.71	40.96	99.09	37.14	93.48	74.39	192.81	88.23	236.37	274.50	711.50	359.35
70~79	7	7	5	5	5	5	7	7	8	8	8	8	8
Mean	289.91	776.49	305.66	739.44	316.76	848.40	698.14	269.34	642.25	239.79	613.09	199.90	535.41
80~89	10	10	9	9	9	9	9	9	9	9	9	9	9
Mean	303.43	812.70	282.29	682.91	268.88	720.15	308.63	799.96	297.13	795.82	283.38	734.51	257.71
90~97	7	7	7	7	8	8	8	8	8	8	8	7	7
Mean	295.48	791.40	295.43	714.71	294.22	788.05	287.83	746.05	265.27	710.51	258.58	670.23	226.88
80~97	17	17	16	16	17	17	17	17	18	17	17	15	15
(No.10) Station: Gaorou, Sassandra Main River Sassandra Basin	CA= 50,550 Km ²												
Mean	156.52	419.21	100.95	244.22	92.62	248.06	127.43	330.29	186.71	500.10	56.43	1,452.63	755.14
60~69	6	6	6	6	6	6	6	7	7	7	7	7	7
Mean	108.24	289.91	36.26	87.72	26.24	70.28	54.46	141.16	153.85	412.07	391.57	1,014.95	326.57
70~79	5	5	5	5	5	5	5	6	6	6	7	7	7
Mean	334.75	896.59	380.59	920.72	362.80	971.72	319.40	827.88	309.33	828.52	393.70	1,020.47	287.01
80~89	10	10	9	9	9	9	9	9	9	9	10	10	10
Mean	424.40	1,136.71	364.40	881.60	403.60	1,081.00	475.20	1,231.72	445.00	1,191.89	478.43	1,240.99	427.17
90~97	5	5	5	5	5	5	5	5	7	7	6	6	5
Mean	364.63	976.63	374.81	906.73	376.40	1,008.15	375.04	972.11	368.69	987.49	428.59	1,110.90	339.57
80~97	15	15	14	15	15	14	14	16	16	17	16	14	14
(No.11) Station: Tawara, Bandama Main River in Bandama Basin	CA= 5,375 Km ²												
Mean	0.51	1.35	0.10	0.25	0.02	0.06	0.19	0.50	0.03	0.07	1.63	4.22	15.58
80~89	3	3	3	3	3	3	3	3	3	3	3	3	3
Mean	0.19	0.50	0.00	0.00	0.00	0.00	0.23	0.60	0.36	0.32	0.44	6.62	17.72
90~97	2	2	2	2	2	2	1	1	3	3	3	3	3
Mean	0.38	1.01	0.06	0.15	0.01	0.04	0.20	0.52	0.19	0.52	0.44	6.33	11.10
80~97	5	5	5	5	5	4	4	6	6	6	6	6	6
(No.12) Station: Bou River in Bandama Basin	CA=												
Mean	0.47	1.25	0.14	0.35	0.12	0.31	0.21	0.55	0.34	0.91	2.87	7.44	5.07
76~79	4	4	4	4	4	4	4	4	4	4	4	4	4
Mean	0.52	1.39	0.30	0.74	0.46	1.23	0.44	1.13	0.66	1.78	3.83	22.44	30.09
80~89	8	8	7	7	7	8	8	8	8	8	9	9	9
Mean	0.20	0.53	0.10	0.24	0.31	0.82	0.56	1.44	0.57	1.54	10.14	10.78	13.49
90~97	3	3	3	3	3	2	2	4	4	4	4	4	4
Mean	0.43	1.15	0.24	0.59	0.43	1.14	0.48	1.23	0.63	1.68	5.14	64.72	36.98
80~97	11	11	10	9	12	12	13	11	11	12	14	14	13

(No.13) Station : Toritiva Amom, Bandama Main River in Bandama Basin	Jan.			Feb.			Mar.			Apr.			May			June			July			Aug.			Sept.			Oct.			Nov.			Dec.	
	m ³ /sec	MCM	m ³ /sec	MCM	m ³ /sec	MCM	m ³ /sec	MCM	m ³ /sec	MCM	m ³ /sec	MCM	m ³ /sec	MCM	m ³ /sec	MCM	m ³ /sec	MCM	m ³ /sec	MCM	m ³ /sec	MCM	m ³ /sec	MCM	m ³ /sec	MCM	m ³ /sec	MCM	m ³ /sec	MCM	m ³ /sec				
Mean	2.09	5.60	-	-	-	-	-	-	-	2.54	6.80	4.59	11.88	18.80	50.35	167.00	447.29	334.00	865.73	138.90	372.03	62.50	162.00	8.98	24.05	-	-	-	-	-	-				
73~79	1	1	-	-	-	-	-	-	-	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				
Mean	2.57	6.89	1.57	3.79	2.39	6.40	2.88	7.46	4.65	12.47	7.16	18.57	22.91	61.37	128.87	345.18	214.39	555.70	84.56	226.47	19.14	49.62	4.20	11.25	41.39	1,305.16	-	-	-	-	-	-			
80~89	9	9	9	9	9	9	8	8	7	7	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9				
Mean	1.27	3.40	0.32	0.78	0.44	1.18	2.98	7.73	6.22	16.67	8.43	21.84	22.54	60.38	75.60	202.49	168.83	437.62	119.96	321.29	24.02	62.27	3.49	9.34	36.31	1,144.98	-	-	-	-	-	-			
90~97	7	7	7	7	7	7	7	7	7	7	7	7	7	7	6	6	4	4	6	6	7	7	7	7	7	7	7	7	7	7	7				
Mean	2.00	5.37	1.02	2.47	1.54	4.12	2.93	7.59	5.31	14.22	7.75	20.09	22.75	60.94	112.48	301.77	196.17	508.46	99.13	265.57	21.15	54.83	3.91	10.46	39.81	1,255.34	-	-	-	-	-	-			
80~97	16	16	16	16	16	16	15	15	12	12	15	15	15	15	14	14	13	13	15	15	15	15	17	17	17	17	17	17	17	17					
(No.14) Station : Bada, Bandama Main River in Bandama Basin	CA=24,050 Km ²			CA=24,050 Km ²			CA=24,050 Km ²			CA=24,050 Km ²			CA=24,050 Km ²			CA=24,050 Km ²			CA=24,050 Km ²			CA=24,050 Km ²			CA=24,050 Km ²			CA=24,050 Km ²							
Mean	29.87	79.99	18.49	44.72	9.93	26.60	8.80	22.81	12.56	33.64	27.07	70.16	92.91	248.86	294.00	787.45	600.88	1,557.47	499.88	1,338.87	184.80	479.00	64.24	172.05	154.16	4,861.63	-	-	-	-	-	-			
62~69	6	6	7	7	7	7	7	7	7	8	8	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8				
Mean	8.46	22.67	3.69	8.92	1.99	5.33	2.20	5.71	6.38	17.07	20.80	53.92	49.93	133.73	217.16	381.63	434.54	1,126.34	218.84	586.15	62.90	163.04	17.81	47.69	87.27	2,752.22	-	-	-	-	-	-			
70~79	9	9	10	10	10	10	8	8	8	8	8	7	7	8	8	8	8	8	8	8	7	7	7	7	7	7	7	7	7	7					
Mean	2.14	5.73	0.98	2.38	1.10	2.95	3.37	8.75	5.00	13.88	8.56	22.19	30.88	82.71	160.83	430.76	319.79	828.90	126.08	337.69	33.43	86.66	9.57	25.63	58.59	1,847.73	-	-	-	-	-	-			
80~89	7	7	7	7	7	7	8	8	8	8	8	8	9	9	10	10	10	10	10	10	9	9	9	9	9	9	9	9	9	9					
Mean	4.95	13.26	0.83	2.02	0.28	0.74	1.83	4.74	7.72	20.68	17.94	46.50	37.72	101.03	127.48	341.45	222.83	577.58	166.73	500.15	75.98	196.93	10.97	29.38	58.17	1,834.45	-	-	-	-	-	-			
90~97	6	6	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	4	4	5	5	5	5	5	5	5	5				
Mean	3.44	9.20	0.92	2.23	0.78	2.10	2.78	7.21	6.05	16.19	11.91	30.87	33.16	88.11	148.32	397.27	283.43	734.65	150.34	402.67	47.61	123.42	10.11	27.08	58.40	1,841.71	-	-	-	-	-	-			
80~97	13	13	12	12	13	13	13	13	13	14	14	14	15	15	15	16	16	16	16	16	15	15	15	15	15	15	15	15	15						
(No.15) Station : Tissak, Bandama Main River in Bandama Basin	CA=99,150 Km ²			CA=99,150 Km ²			CA=99,150 Km ²			CA=99,150 Km ²			CA=99,150 Km ²			CA=99,150 Km ²			CA=99,150 Km ²			CA=99,150 Km ²			CA=99,150 Km ²			CA=99,150 Km ²							
Mean	52.27	140.01	28.18	68.17	20.48	54.85	32.60	84.99	62.55	167.53	23.49	605.21	388.81	1,041.39	562.90	1,507.67	1,298.10	3,364.68	1,325.60	3,550.49	562.00	1,456.70	152.44	408.30	394.77	12,449.47	-	-	-	-	-	-			
60~69	10	10	9	9	9	9	7	7	7	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10						
Mean	50.41	135.02	61.76	149.41	52.00	139.27	46.49	120.50	76.17	204.01	179.43	465.08	116.38	311.71	157.87	422.84	519.94	1,347.68	528.20	1,414.73	163.50	423.79	66.26	177.46	168.43	5,311.52	-	-	-	-	-	-			
70~79	9	9	9	8	8	8	9	9	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10						
Mean	98.70	256.68	97.00	230.46	90.63	248.60	102.80	266.30	125.42	336.55	149.20	387.89	162.54	437.22	217.77	705.04	449.52	1,200.67	455.04	1,080.31	165.90	406.50	90.93	243.55	183.79	5,795.96	-	-	-	-	-	-			
80~89	9	9	9	8	8	8	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10						
Mean	91.67	245.52	101.55	245.67	107.42	287.70	116.85	302.88	129.67	347.30	138.17	358.13	157.57	422.03	123.93	331.94	240.50	623.38	307.17	822.72	203.83	528.34	108.17	289.71	152.38	4,805.31	-	-	-	-	-	-			
90~97	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6				
Mean	95.71	252.22	99.35	236.98	96.93	259.64	108.13	280.02	127.01	341.83	145.06	376.73	160.68	421.52	182.58	565.13	371.14	984.18	399.59	983.71	180.13	452.91	97.39	260.86	172.03	5,425.00	-	-	-	-	-	-			
80~97	15	15	14	14	14	14	11	11	12	12	11	11	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12						
(No.16) Station: Menkeno, Marabout River in Bandama Basin	CA=6,700 Km ²			CA=6,700 Km ²			CA=6,700 Km ²			CA=6,700 Km ²			CA=6,700 Km ²			CA=6,700 Km ²			CA=6,700 Km ²			CA=6,700 Km ²			CA=6,700 Km ²			CA=6,700 Km ²							
Mean	1.87	5.02	0.91	2.21	0.40	1.07	2.75	0.79	2.11	1	1	1	1	1	1	3	3	3	3	3	2	2	3	3	3	2	3	2	3	2					
62~69	3	3	3	2	2	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				
Mean	0.60	1.61	0.09	0.22	0.16	0.43	0.31	0.80	0.74	1.98	1.44	3.72	12.52	33.54	51.31	137.42	122.60	317.78	68.28	182.88	15.75	40.82	1.98	5.29	23.04	726.50	-	-	-	-	-	-			
70~79	5	5	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	4	4	5	5	7	7	8	8	8	8	8	8	8				
Mean	0.44	1.17	0.08	0.18	0.07	0.18	0.16	0.41	0.61	1.64	1.11	2.87	12.19	32.66	50.97	136.51	70.60	183.00	28.87	77.31</td															

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
	m ³ /sec	MCM	m ³ /sec	MCM	m ³ /sec	MCM	m ³ /sec	MCM	m ³ /sec	MCM	m ³ /sec	MCM	m ³ /sec
(No.19) Station: Boualle River, Maraboutine River in Bandama Basin CA = 19,800 km ²													
Mean	10.33	27.67	4.66	11.27	2.97	7.95	5.51	14.29	11.74	31.44	39.49	102.37	63.44
60~69	10	10	10	10	10	10	10	10	10	10	10	10	10
Mean	3.70	9.90	1.13	2.72	1.30	3.47	2.76	7.14	6.04	16.19	11.87	30.78	16.29
70~79	10	10	9	9	8	8	8	10	10	10	10	10	10
Mean	1.53	4.10	0.54	1.30	1.41	3.78	2.80	5.02	13.45	8.71	22.57	28.36	75.96
80~89	9	9	8	8	9	9	9	9	10	10	10	10	9
Mean	3.50	9.38	2.15	5.19	1.70	4.55	4.06	10.51	5.63	15.08	10.31	26.72	22.81
90~97	7	7	5	5	5	5	5	6	6	6	6	6	6
Mean	2.39	6.41	1.16	2.80	1.51	4.05	3.25	8.41	5.26	14.10	9.31	24.13	26.28
80~97	16	16	13	13	14	14	14	15	15	16	16	16	15
(No.20) Station: Katiola, Nzzi River in Bandama Basin CA =													
Mean	0.16	0.44	0.02	0.04	0.03	0.08	0.63	1.63	0.96	2.57	2.51	6.62	17.74
80~89	7	7	6	6	6	6	6	6	6	6	6	6	6
Mean	0.07	0.20	0.03	0.07	0.03	0.07	0.57	1.47	1.24	3.32	3.42	8.86	9.75
90~97	6	6	5	5	5	5	5	5	5	6	6	6	5
Mean	0.12	0.33	0.02	0.05	0.03	0.07	0.60	1.55	1.09	2.91	2.97	7.69	5.79
80~97	13	13	12	12	11	11	11	11	11	12	12	12	11
(No.21) Station: Mbahakro, Nzzi River in Bandama Basin CA = 15,700 km ²													
Mean	3.88	10.39	1.47	3.55	1.22	3.26	4.69	12.15	8.98	24.05	36.77	95.30	63.52
60~69	8	8	9	9	9	9	10	10	10	10	10	10	9
Mean	0.67	1.81	0.15	0.36	0.36	0.97	2.11	5.47	7.31	19.57	23.17	60.05	15.57
70~79	9	9	9	9	10	10	10	10	10	10	10	10	10
Mean	0.61	1.63	0.18	0.42	0.63	1.70	1.96	5.08	4.72	12.63	20.63	25.33	67.85
80~89	10	10	9	9	10	10	10	10	10	10	10	10	9
Mean	0.52	1.39	0.12	0.28	0.07	0.20	1.89	4.75	12.72	5.96	15.45	14.28	38.25
90~97	6	6	6	6	6	6	6	6	6	6	6	6	5
Mean	0.38	1.54	0.15	0.37	0.42	1.13	1.93	5.01	4.73	12.67	7.29	18.91	21.65
80~97	16	16	15	15	16	16	16	15	15	15	15	15	15
(No.22) Station: Dimbokro, Nzzi River in Bandama Basin CA = 24,100 km ²													
Mean	4.52	12.10	1.46	3.52	1.50	4.01	6.64	17.22	15.08	40.40	50.92	131.99	84.10
60~69	10	10	9	9	8	8	10	10	10	10	10	10	10
Mean	2.37	6.36	0.79	1.92	1.05	2.80	4.72	12.24	10.56	28.27	38.71	100.33	25.25
70~79	8	8	8	8	10	10	9	10	10	10	10	10	10
Mean	1.27	3.40	0.31	0.75	0.52	1.38	2.04	5.30	6.27	16.79	13.30	34.46	28.46
80~89	10	10	10	10	10	10	10	10	10	10	10	10	10
Mean	1.85	4.95	0.68	1.65	1.20	3.20	3.02	7.82	7.30	19.55	14.04	36.40	25.65
90~97	5	5	5	6	6	6	6	6	6	5	5	5	5
Mean	1.46	3.92	0.43	1.05	0.77	2.06	2.41	6.24	6.65	17.82	13.54	35.11	27.40
80~97	15	15	15	16	16	16	16	15	15	16	16	16	15
(No.23) Station: Nzienou, Nzzi River in Bandama Basin CA = 35,000 km ²													
Mean	10.80	28.93	3.02	7.31	3.10	8.30	10.75	27.88	21.09	56.48	111.40	288.75	171.56
60~69	8	8	8	8	6	7	7	7	7	7	7	7	7
Mean	2.73	7.31	0.78	1.88	1.45	3.87	6.07	15.75	18.68	50.02	83.71	216.96	54.12
70~79	8	8	9	9	9	9	10	10	10	10	10	10	10
Mean	1.84	4.93	0.37	0.91	0.51	1.38	2.27	5.88	9.27	24.83	28.41	73.64	21.65
80~89	10	10	10	10	10	10	10	10	10	10	10	10	10
Mean	2.26	6.07	0.42	1.03	0.27	0.73	2.49	6.45	13.58	36.38	33.74	87.45	59.75
90~97	6	6	6	6	6	6	6	5	5	5	6	6	6
Mean	2.00	5.35	0.39	0.95	0.42	1.13	2.35	6.09	10.71	28.68	30.19	78.25	55.09
80~97	16	16	16	16	16	16	16	15	15	16	16	16	15

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
	m ³ /sec	MCM	m ³ /sec										
(No.24) Station: Ganss, Comee Main River in Comee Basin CA=43,700km ²													
Mean	3.18	8.53	1.62	3.91	0.61	1.64	5.81	15.06	45.50	51.80	134.27	98.50	263.82
76~79	3	3	3	3	3	3	3	3	3	3	3	4	4
Mean	2.05	5.49	0.69	1.67	1.49	3.98	3.10	8.04	9.80	26.25	19.79	51.31	73.66
80~89	7	6	6	6	7	7	7	7	7	7	7	7	7
Mean	1.17	3.15	0.46	1.11	0.35	0.93	3.13	8.11	4.85	12.98	25.55	66.23	45.74
90~97	7	7	6	6	6	5	5	5	5	5	5	5	5
Mean	1.61	4.32	0.57	1.37	0.92	2.45	3.11	8.07	7.74	20.72	22.67	58.77	62.03
80~97	14	13	13	12	13	12	13	13	12	14	14	12	12
(No.25) Station: Kafob, Comee Main River in Comee Basin CA=23,200km ²													
Mean	3.89	10.43	2.09	5.06	1.31	3.50	3.28	8.49	7.01	18.76	23.57	61.08	35.53
72~79	3	4	4	4	4	6	6	6	6	5	5	5	5
Mean	1.44	3.86	0.44	1.07	0.28	0.76	0.70	1.83	3.53	9.46	12.35	32.01	39.24
80~89	10	10	10	10	10	9	9	10	10	10	10	10	10
Mean	0.73	1.95	0.09	0.23	0.12	0.31	0.46	1.20	3.42	9.16	13.85	35.90	28.80
90~97	4	4	4	4	7	7	7	6	6	7	8	8	8
Mean	1.24	3.31	0.34	0.83	0.21	0.57	0.60	1.55	3.49	9.35	12.91	34.94	35.99
80~97	14	14	14	14	17	17	16	16	16	16	16	17	18
(No.26) Station: Akacomekro, Comee Main River in Comee Basin CA=77,000km ²													
Mean	14.60	39.12	5.46	13.22	3.81	10.20	11.19	29.00	20.52	54.97	8.06	150.49	170.69
60~69	10	9	9	9	9	9	9	9	9	10	10	10	10
Mean	7.13	19.10	3.04	8.27	2.61	6.98	4.97	12.87	13.57	36.34	52.15	135.17	54.85
70~79	8	8	9	8	9	10	10	10	10	10	10	10	10
Mean	2.65	7.11	1.02	2.47	1.60	4.30	2.13	5.53	10.34	27.70	52.21	70.40	188.56
80~89	10	10	9	9	8	8	8	8	8	9	10	9	9
Mean	4.74	12.69	0.94	2.27	0.58	1.55	1.60	4.15	11.05	29.60	32.13	83.27	63.78
90~97	7	7	5	4	6	6	7	7	7	7	7	7	6
Mean	3.51	9.40	0.99	2.40	1.26	3.38	1.91	4.94	10.67	28.59	25.38	65.80	67.68
80~97	17	17	14	14	12	12	14	14	15	15	16	16	17
(No.27) Station: Abredinou, Comee Main River in Comee Basin CA=74,350km ²													
Mean	4.61	12.34	1.32	3.19	1.42	3.79	5.83	15.11	10.49	28.11	38.17	98.94	105.43
82~89	7	7	7	7	7	7	7	7	7	8	8	8	8
Mean	9.35	25.05	4.83	11.69	4.56	12.21	10.93	28.33	35.25	94.41	75.53	195.76	80.78
90~97	8	8	8	8	8	8	8	8	8	8	8	8	8
Mean	7.14	19.12	3.19	7.73	3.09	8.28	8.55	22.16	23.70	63.47	58.09	150.58	93.93
80~97	15	15	15	15	15	15	15	15	15	15	15	16	16
(No.28) Station: Ibadougu, Kouroukelle River in Niger Basin CA=1,990km ²													
Mean	6.03	16.14	2.79	6.75	1.17	3.13	0.65	1.68	0.67	1.80	2.37	6.15	14.20
62~69	7	7	7	7	7	7	7	7	7	7	7	7	7
Mean	2.53	6.79	1.05	2.55	0.47	1.25	0.45	1.17	0.83	2.27	6.13	7.25	19.41
70~79	10	10	10	10	10	10	10	10	10	10	10	10	10
Mean	1.99	5.32	0.92	2.22	0.36	0.96	0.34	0.87	0.96	2.56	1.00	2.60	8.68
80~89	10	10	10	10	10	10	8	8	8	9	9	9	10
Mean	2.30	6.17	1.11	2.68	0.52	1.38	0.25	0.66	0.31	0.84	0.76	1.97	7.19
90~97	8	8	7	8	8	8	8	8	8	8	8	8	8
Mean	2.13	5.70	1.00	2.41	0.43	1.14	0.29	0.76	0.63	1.70	0.89	2.30	7.98
80~97	18	18	17	17	18	18	16	16	16	17	17	17	18
(No.29) Station: Dintilla, Baonile River in Niger Basin CA=3,970km ²													
Mean	9.38	25.11	4.12	9.96	1.81	4.84	0.77	2.00	0.65	1.74	2.31	5.98	18.94
63~69	6	6	6	6	6	6	6	6	6	6	6	6	6
Mean	4.26	11.41	1.38	3.33	0.65	1.75	0.21	0.53	0.27	0.73	2.19	5.92	15.65
70~79	8	8	8	8	7	7	7	7	7	6	6	6	6
Mean	0.62	1.66	0.39	0.95	0.15	0.41	0.06	0.14	0.13	0.27	0.70	2.74	7.33
80~89	6	6	7	7	6	6	6	6	6	7	7	7	7
Mean	3.53	9.47	1.57	3.80	0.67	1.80	0.37	0.97	0.70	1.86	1.30	3.37	16.16
90~97	8	8	7	8	8	8	8	8	8	8	8	8	8
Mean	2.28	6.12	0.98	2.38	0.45	1.21	0.24	0.62	0.45	1.21	0.86	2.23	9.89
80~97	14	14	14	14	14	14	14	14	14	14	14	14	14

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
	m ³ /sec	MCM	m ³ /sec										
(No.30) Station: Kouto Av. Bagot River in Niger Basin CA=4740km²													
Mean	7.66	20.52	3.54	8.56	1.52	4.07	0.73	1.88	0.74	1.97	2.33	6.03	23.31
60~69	9	9	9	9	9	9	9	9	9	9	10	10	10
Mean	2.32	6.22	0.97	2.35	0.46	1.23	0.32	0.82	1.30	3.47	3.96	10.26	7.01
70~79	10	10	10	10	10	10	10	8	8	8	10	10	10
Mean	2.07	5.56	1.33	3.21	1.00	2.69	0.71	1.85	1.12	2.99	1.29	3.33	13.87
80~89	4	4	4	4	4	4	5	5	5	5	5	5	5
Mean	2.27	6.08	1.04	2.52	0.33	0.88	0.49	1.26	0.60	1.62	1.31	3.39	247.16
90~97	6	6	5	5	6	6	6	6	6	6	6	6	6
Mean	2.19	5.87	1.17	2.83	0.60	1.60	0.59	1.53	0.84	2.24	1.30	3.36	9.80
80~97	10	10	9	9	10	10	11	11	11	11	11	11	11
(No.31) Station: Dibet, Kanikala River in Niger Basin CA=5560km²													
Mean	1.42	3.80	0.51	1.24	0.25	0.66	0.26	0.68	0.15	0.39	0.34	0.88	2.96
75~79	4	4	4	4	3	3	3	3	3	3	3	3	3
Mean	0.51	1.38	0.18	0.44	0.05	0.13	0.01	0.04	0.14	0.38	0.69	1.79	6.10
80~89	10	10	10	10	10	10	10	10	10	10	10	10	10
Mean	1.42	3.79	0.56	1.35	0.20	0.54	0.23	0.58	0.24	0.55	1.44	3.72	12.50
90~97	8	8	8	8	8	8	8	8	8	8	8	8	8
Mean	0.92	2.45	0.35	0.85	0.12	0.31	0.11	0.28	0.19	0.29	1.02	2.65	8.94
80~97	18	18	18	18	18	18	17	18	17	18	18	18	18
(No.32) Station: Papara, Bagre River in Niger Basin CA=950km²													
Mean	4.51	12.08	1.77	4.28	0.49	1.31	0.22	0.58	2.67	7.15	3.57	9.26	12.98
76~79	4	4	4	4	3	3	3	3	4	4	4	4	4
Mean	3.39	9.08	1.39	3.36	0.59	1.59	0.79	2.04	1.15	3.08	3.28	8.51	15.29
80~89	7	7	7	7	7	7	8	8	8	8	8	8	8
Mean	5.67	15.20	2.83	6.84	1.24	3.32	0.80	2.07	1.15	3.07	4.26	11.04	10.24
90~97	7	7	7	7	7	7	7	7	7	7	7	7	7
Mean	4.23	11.33	1.97	4.76	0.86	2.29	0.74	1.93	1.06	2.84	3.40	8.80	12.25
80~97	15	15	15	15	16	16	13	13	14	14	15	15	15
(No.33) Station: Vonkoro, Volta Naira River in Volt Naira Basin CA=111,500km²													
Mean	5.18	13.86	3.18	7.69	2.16	5.78	3.74	9.71	14.69	39.36	41.82	104.80	117.16
80~89	10	10	10	10	10	10	10	10	10	10	8	8	8
Mean	8.71	23.32	4.31	10.42	2.26	6.06	4.71	12.20	15.96	42.74	80.96	209.85	100.58
90~97	5	5	5	5	5	5	6	6	6	5	6	6	5
Mean	6.35	17.02	3.55	8.60	2.19	5.83	4.11	10.64	15.17	40.62	56.87	147.42	110.06
80~97	15	15	15	15	15	15	16	16	16	13	13	14	14
(No.34) Station: Wenulo, Dodo River in San Pedro Basin CA=640km²													
Mean	4.84	12.96	4.96	12.00	12.02	32.19	9.63	24.96	12.19	32.65	31.43	81.45	13.26
70~79	2	2	4	4	4	4	6	4	4	4	4	4	4
Mean	2.66	7.13	2.45	5.92	3.55	9.52	3.00	7.78	11.23	30.07	25.47	66.02	12.57
80~89	9	9	9	9	9	9	9	9	7	7	7	7	7
Mean	4.21	11.28	3.94	9.53	5.53	14.82	5.04	13.07	11.03	29.53	20.00	51.83	10.33
90~97	6	6	6	6	6	6	7	7	7	7	7	7	7
Mean	3.28	8.79	3.04	7.36	4.42	11.84	3.89	10.09	11.13	29.80	22.55	58.45	11.59
80~97	15	15	15	16	16	16	14	14	15	15	16	16	15
(No.35) Station: Rte. Grand Barerey, Nero River in San Pedro Basin CA=1210km²													
Mean	3.78	10.12	5.79	14.01	6.12	16.40	6.16	15.98	42.80	52.31	135.60	15.68	41.90
72~79	7	7	7	7	6	6	6	6	7	7	7	7	7
Mean	2.81	7.52	2.64	6.38	4.32	11.56	6.68	17.30	19.54	52.33	40.92	106.08	20.63
80~89	9	8	8	8	8	8	9	9	9	10	10	10	10
Mean	4.59	12.30	6.80	16.46	9.73	26.05	9.96	25.82	18.91	50.64	31.70	82.17	26.71
90~97	5	5	5	5	7	7	7	7	7	4	4	4	4
Mean	3.45	9.23	4.24	10.26	6.84	18.32	8.11	21.03	19.26	51.59	38.09	98.72	22.37
80~97	14	14	13	13	15	15	16	16	16	13	13	14	14

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual			
													m ³ /sec	MCM	m ³ /sec	MCM
(No.42) Station: Angonito, Baya River CA= km ²																
Mean	0.00	0.00	0.00	0.02	0.05	0.01	0.02	0.05	0.12	0.36	0.95	7.67	19.87	4.30	11.53	
53~89	6	6	6	6	6	6	6	7	7	6	6	6	7	7	0.03	0.07
Mean	0.01	0.01	0.00	0.00	0.02	0.06	0.04	0.09	0.06	0.31	0.82	0.02	0.04	0.27	0.86	0.07
90~97	5	5	5	5	5	5	5	5	5	5	5	5	4	4	5	5
Mean	0.00	0.00	0.00	0.01	0.03	0.02	0.04	0.10	0.34	0.90	0.40	1.08	4.71	12.20	3.05	8.17
83~97	11	11	11	11	11	11	11	12	12	12	11	11	10	11	0.04	0.12
(No.43) Station: Binoman, Bi River in Bi Basin CA = 6,800km ²																
Mean	8.26	22.13	4.03	9.74	12.46	33.36	26.69	69.17	37.39	100.14	100.86	261.42	130.86	350.50	80.17	214.73
62~69	6	6	6	6	7	7	8	8	8	7	7	7	8	8	8	8
Mean	1.75	4.67	1.16	2.81	7.98	21.39	16.35	42.38	25.14	67.32	62.74	162.62	61.89	165.76	21.40	57.31
70~79	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Mean	0.93	2.49	0.64	1.55	3.16	8.47	3.49	9.05	12.09	32.38	46.00	119.23	48.04	128.67	24.16	64.72
80~89	8	8	9	9	7	7	9	9	9	9	10	10	10	10	9	9
Mean	1.71	4.57	0.82	1.99	4.10	10.98	9.68	25.09	25.04	67.07	49.14	127.38	40.45	108.33	16.99	45.50
90~97	6	6	6	6	7	7	8	8	8	7	8	8	8	8	8	8
Mean	1.26	3.38	0.71	1.73	3.63	9.72	6.40	16.60	18.18	48.70	47.38	122.80	44.67	119.63	20.97	56.18
80~97	14	14	15	15	14	14	17	17	17	16	16	18	18	18	17	16
(No.44) Station: Babokon, Boubo River in Boubo Basin CA= km ²																
Mean	0.79	2.12	0.37	0.89	1.87	5.00	2.49	6.45	5.09	13.63	24.72	64.07	23.30	62.41	14.59	39.07
82~89	7	7	7	7	7	7	6	6	6	6	6	6	6	6	6	6
Mean	0.61	1.62	0.50	1.20	0.82	2.19	3.38	8.77	13.99	37.47	27.13	70.32	23.41	62.69	9.83	26.32
90~97	7	6	6	6	7	6	6	6	6	6	6	6	6	5	6	7
Mean	0.70	1.87	0.43	1.03	1.34	3.60	2.94	7.61	9.54	25.55	25.92	67.19	23.35	62.55	12.42	33.28
82~97	14	14	13	13	14	14	12	12	12	12	12	11	11	12	12	12

Note MCM in the month of 1,3,5,7,10 and 12; Mean Discharge x 2.6784 (86,480secx31days/1,000,000)

MCM in the month of 4,6,9 and 11; Mean Discharge x 2.592 (86,400secx30days/1,000,000)

MCM in the month of 2; Mean Discharge x 2.4192 (86,400secx28days/1,000,000)

Total mean MCM; Sum of mean discharge from 1 to 12 month

Total mean m³/sec; Mean MCM/31.535 (86400secx365/1,000,000)

Summary Of Discharge Records And Estimation On Flood/Drought Discharges At Control Points

Control Point (Gauging Station)		Name		Available Observation / Recorded Period	River Basin (km ²)	Average Rainfall (mm)	Average Discharge (m ³ /s)	Specific Discharge (m ³ /s/100km ²)	Average Runoff Coefficient (%)	Daily Maximum Discharge (m ³ /s)	Daily Available Runoff Period 5-year 10-year 30-year						
No.	No.	Name	Code No.	The River	River Basin												
1.I-C1	Goudou Point	10923500103	Sassandra	Sassandra	54,55,92,71,73,85,91,97	70,550	1,346	470,074	0,610	0,527	14,1	17,4	3,450	30,1	344,5		
2.I-C2	Soubre	10923500115	- do -	- do -	54,75,77,97	57,670	1,392	914	205,9	0,517	0,506	11,7	17,2	3,530	17,9	21,9	
3.I-C3	Bivo Dam	-	- do -	- do -	82,97	32,250	1,383	914	205,9	0,517	0,506	16,0	14,6	-	-	-	
4.I-C4	Rivière (Rivière)	10923500117	- do -	- do -	81,97	32,690	1,313	808	174,2	0,300	0,354	12,8	13,3	2,040	-	-	
5.I-C5	Dibilia	10923500114	- do -	- do -	75,97	16,000	1,250	708	174,4	-	0,689	-	17,4	-	851	-	
6.I-C6	Dakopodou	-	- do -	- do -	69,95	6,625	1,200	1,100	24,6	16,5	0,271	9,8	7,1	361	-	-	
7.I-C7	Léonville	10923501904	Loko	- do -	88,97	12,745	1,200	800	36,0	-	0,282	7,4	248	-	-	-	
8.I-C8	Klin	10923502205	Nzo	- do -	88,97	4,310	1,650	1,300	48,6	31,1	11,12	0,722	21,6	17,5	635	-	-
9.I-C9	Bafing (Bafingdala)	10923501303	Bafing	- do -	61,97	5,930	1,500	1,100	57,3	29,1	0,666	49,1	20,3	516	36,4	43,6	
10.I-C10	Disalititidougo	10923504802	Ticoba	- do -	75,97	2,750	1,300	900	15,5	5,1	0,556	0,183	13,5	14,4	214	-	-
11.II-C1	Ndama (Ndama)	10901001042	Bandama	-	101,767	1,102	693	-	-	-	-	-	-	-	-	-	-
12.II-C2	Tissesse	10901001054	- do -	- do -	54,96	99,150	1,102	693	166,6	70,3	0,68	0,071	4,8	3,2	2,720	82,4	101,3
13.II-C3	Tako Dam	-	- do -	- do -	81,97	57,860	1,140	663	98,2	43,7	0,720	0,076	4,7	3,6	-	-	-
14.II-C4	Korosse Dam	-	- do -	- do -	75,97	32,400	1,154	673	98,8	16,2	0,380	0,050	7,7	2,3	-	-	-
15.II-C5	Sia	10901001013	- do -	- do -	62,53,97	24,650	1,172	725	57,1	6,1	0,257	6,4	1,1	1,150	-	-	
16.II-C6	Touriya Antom	10901001060	- do -	- do -	73,97	14,500	1,181	763	40,8	-	0,281	-	7,5	-	564	19,8	38,7
17.II-C7	Tawara Ament	10901001055	- do -	- do -	79,32,84,87,94,97	5,375	1,159	709	14,8	-	0,275	-	7,6	-	214	-	-
18.II-C8	Ndama (Téteu)	10901002515	Nd	- do -	53,96	35,000	1,086	748	46,1	5,8	0,137	0,017	4,1	0,7	945	-	-
19.II-C9	Dimbokro	10901002506	- do -	- do -	55,97	24,100	1,059	725	40,4	2,2	0,168	0,009	5,0	0,4	646	-	-
20.II-C10	Mbaliakro	10901002512	- do -	- do -	54,97	15,700	1,063	685	26,0	1,0	0,166	0,006	4,9	0,3	576	-	-
21.II-C11	Rivière Dibokata	10901002505	- do -	- do -	77,86,89,97	6,620	1,159	699	10,8	0,2	0,165	0,003	4,5	0,1	231	-	-
22.II-C12	Bouafle	10901001006	Maribou	- do -	54,97	19,800	1,139	589	47,4	2,9	0,239	0,015	6,7	0,3	971	-	-
23.II-C13	Zanemba	10901001012	- do -	- do -	81,97	6,615	1,134	697	39,1	2,8	0,235	0,017	6,5	0,8	538	-	-
24.II-C14	Matetou	10901001009	- do -	- do -	62,70,72,96	6,700	1,159	706	18,7	1,3	0,239	0,019	7,7	0,9	311	-	-
25.II-C15	Kourabero	10901002004	Yerai Bihoreni	- do -	81,97	4,860	1,159	569	9,8	1,2	0,242	0,025	5,5	1,6	199	-	-
26.II-C16	Riv. Bérone-Kadogha	10901001501	Bou	- do -	76,86,88,97	750	1,039	750	10,1	1,1	0,269	0,029	6,8	1,2	134	-	-
27.III-C1	Grand Bassam	Centoc	Cavally	- do -	83,97	-	1,090	696	-	-	-	-	-	-	-	-	-
28.III-C2	Abidjan	10901001010	- do -	- do -	82,97	74,350	1,049	696	10,7	21,4	0,449	0,029	4,5	1,3	1,050	40,6	66,2
29.III-C3	Aksemendro	10901001003	- do -	- do -	56,97	57,000	1,049	656	10,7	16,5	0,445	0,029	4,4	1,4	2,450	-	0,01
30.III-C4	Gnoue	10901001018	- do -	- do -	76,97	43,700	1,049	703	10,2	17,6	0,256	0,040	7,1	1,8	2,030	-	-
31.III-C5	Kafolo	10901001110	- do -	- do -	72,97	21,200	1,100	690	59,0	10,0	0,278	0,047	8,0	2,5	818	17,9	31,4
32.III-C6	Ndido	10901001005	Babou	- do -	93,95	6,222	1,159	705	10,8	-	0,316	-	12,1	-	425	-	-
33.IV-C1	Tate	10955001019	Cavally	- do -	63,97	28,800	1,951	1,400	46,0	202,0	1,611	26,0	15,8	2,74	-	-	-
34.IV-C2	To (Saligbo (Sahili))	10955001112	- do -	- do -	70,97	4,670	1,700	1,400	67,7	40,3	1,459	0,063	26,9	19,4	374	23,6	26,5
35.V-C1	-	Coïdes	Cesois	- do -	82,97	-	-	-	-	-	-	-	-	-	-	-	-
36.VI-C1	Papara	1091601208	Bigoe	Baïki-Niger	- do -	8,950	1,053	753	46,1	9,4	0,315	0,105	15,4	4,4	479	-	-
37.VI-C2	Kotto Avial	1091601206	- do -	- do -	70,97	4,740	1,100	800	56,6	6,8	0,445	0,143	16,2	5,7	530	12,8	19,2
38.VI-C3	Debele	1091601208	Katchha	- do -	55,97	5,550	1,100	900	21,3	9,5	0,384	0,171	11,0	6,0	296	8,4	11,0
39.VI-C4	Djithla	1091601406	Babou	- do -	63,78,81,95	3,970	1,359	1,060	20,5	-	0,316	-	12,1	-	-	-	-
40.VI-C5	Indegou	-	Kounouelle	Stéphanie Niger	62,97	1,990	1,000	1,000	14,2	11,2	0,714	0,563	17,3	17,7	111	9,5	11,8
41.VII-C1	Kontodou	-	Kolodio	- do -	81,97	2,097	1,000	700	-	-	-	-	-	-	-	-	-
42.VII-C2	Vohémero	10922601112	Vohé-Méré	Vohé-Méré	78,85,97	111,500	1,110	893	99,9	43,8	0,639	0,343	2,6	1,5	1,020	-	0,04
43.VII-C3	Abi Lagoon	-	Bia	- do -	71,97	10,336	1,284	1,200	-	-	-	-	-	-	-	-	-
44.VII-C4	Kondiabu	-	- do -	- do -	81,97	9,330	1,284	1,200	41,9	-	0,449	-	-	-	-	-	-
45.VII-C5	Ayame-C-Dam	10935001009	- do -	- do -	55,98,70,78,96	4,680	1,136	801	4,5	1,9	0,234	0,110	6,1	-	239	-	-
46.VIII-C1	Bimboan Avial	10945001018	- do -	- do -	81,97	6,300	1,200	900	-	-	-	-	8,3	-	168	-	-
47.VIII-C2	Adjin (Lagon Adjin)	-	Me	- do -	592	1,365	926	-	-	-	-	-	-	-	-	-	-
48.IX-C1	Ibo	-	- do -	- do -	2,458	1,365	926	-	-	-	-	-	-	-	-	-	-
49.IX-C2	Lobé Abouézina	-	- do -	- do -	1,274	1,340	890	-	-	-	-	-	-	-	-	-	-
50.IX-C3	Kossoufou	-	- do -	- do -	7,561	1,076	818	-	-	-	-	-	-	-	-	-	-
51.IX-C4	Aberville	10935001009	- do -	- do -	4,680	1,136	801	-	-	-	-	-	-	-	-	-	-
52.IX-C5	Im	-	- do -	- do -	444	1,340	900	-	-	-	-	-	-	-	-	-	-
53.X-C1	Grand Lahou	-	Bocté	- do -	2,192	1,200	900	-	-	-	-	-	-	-	-	-	-
54.X-C2	Baboton (Grand Lahou)	-	Babuo	- do -	4,702	1,200	900	-	-	-	-	-	-	-	-	-	-
55.X-C3	Dahiri	-	Niendabourou	- do -	2,112	1,300	1,000	-	-	-	-	-	-	-	172	-	-
56.X-C4	Fresco	-	Bolsa	- do -	1,330	1,300	1,000	-	-	-	-	-	-	-	-	-	-
57.XI-C1	Station Pompage de San Pedro	10985001003	San Pedro	Nero	69,97	1,266	1,000	-	-	-	-	-	-	-	-	-	-
58.XI-C2	Riv. Grand Béché	10985001003	Dodo	- do -	74,97	649	1,800	1,500	9,6	6,6	1,479	1,017	25,9	21,4	101	-	-
59.XI-C3	Ouredo (Nyondo)	10955001003	Dodo	- do -	-	-	-	-	-	-	-	-	-	-	-	-	-

Note: - do means data not available (for analysis).

Summary Of Discharge Records And Estimation On Flood/Drought Discharges At Control Points

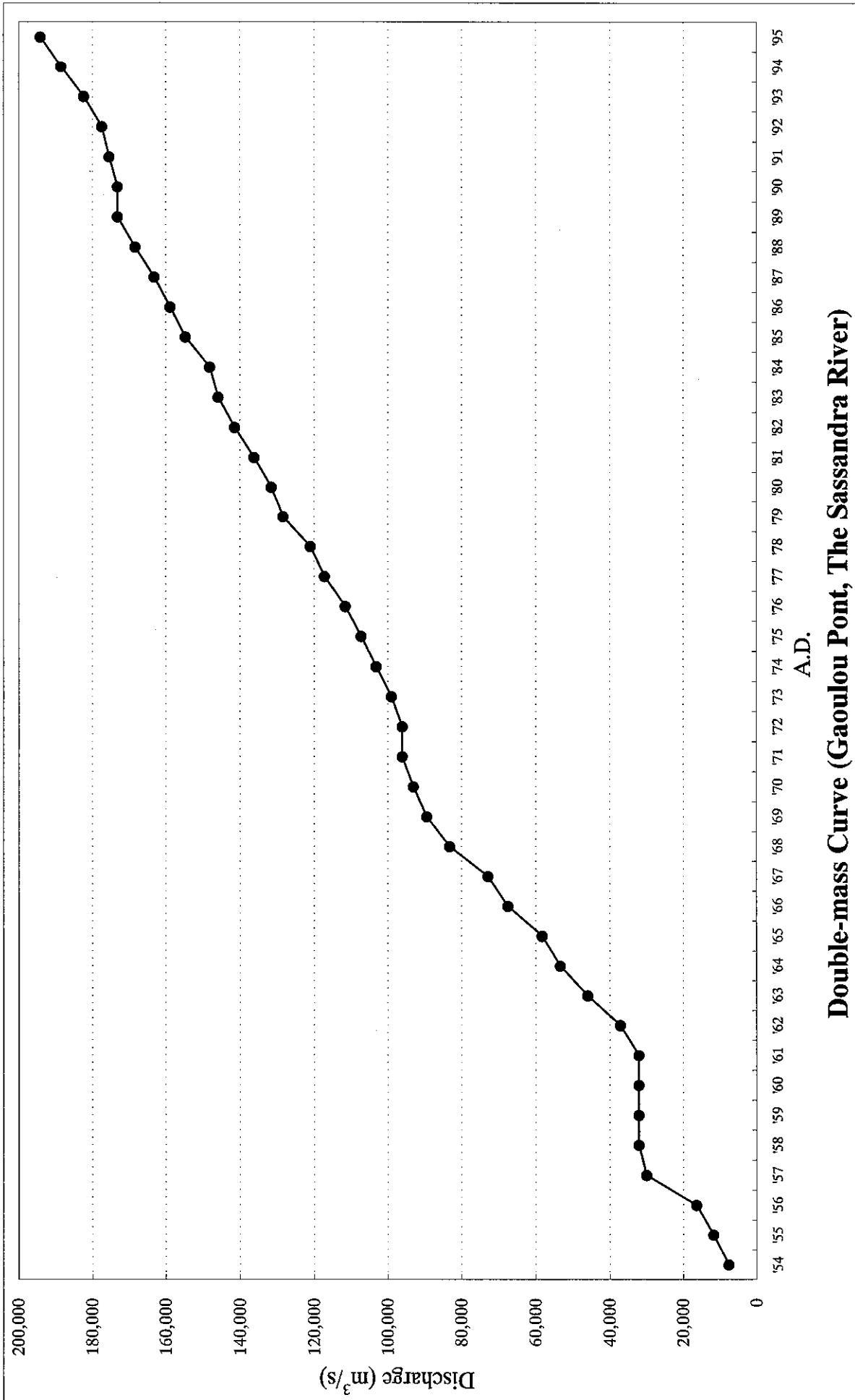
No.	Code No. of Division	Control point No.	Name of Gauging Station (Ugany)	Name of River	Gauging Station No.	Name of Observation / Recorded Period	Available Rainfall Basin No.	River Basin Area (km²)	Annual Average Rainfall (mm)	Mean Discharge '80-'96 (m³/s)	Long-term Specific Discharge (m³/km²)	Runoff Ratio	Daily Discharge (m³/s)	Annual Average Discharge (m³/s)	Estimated Daily Probable Flood Discharge (m³/s)					Return Period						
															5-year	10-year	20-year	50-year	100-year							
1	I-A01-X-A1	I-C1	Gatston Point	Sassandria	1.093E+09	54-58/62-71/73-89/91-97	70,550	1,366	40.6	0.14	6.00	3,490.0	55.9	265.0	1,046.3	2,709.3	3,250.7	4,633.6	5,460.7	5,519.7	2-year					
2	I-A1-X-A2	I-C2	Sambre	-do-	1.093E+09	54-75/77-97	57,670	1,392	298.1	0.007	0.12	5.22	3,530.0	802.0	96.1	292.0	1,487.0	2,574.3	3,313.4	4,687.2	5,519.7	2-year				
3	I-A2-X-A3	I-C3	Buoy Dam	-do-	-	82-97	42,250	1,383	295.9	0.007	0.16	-	45.3	175.8	19.3	-	-	-	-	-	-					
4	I-A3-X-A4	I-C4	Pieby (Pabdi)	-do-	-	1.093E+09	81-97	32,600	1,313	195.6	0.006	0.13	1.50	2,040.0	291.0	103.0	1,089.3	1,597.8	1,940.6	2,724.6	3,168.8	-				
5	I-A4-X-A5	I-C5	Dabala	-do-	-	1.093E+09	75-97	16,600	1,250	114.4	108.0	0.007	0.17	1.19	851.0	151.0	79.9	-	-	-	-	-	-			
6	I-A01-X-A6	I-C6	Dapadou	-do-	-	1.093E+09	65-95	6,625	1,200	292	30.7	0.005	0.12	0.00	361.0	45.5	16.5	16.5	16.5	16.5	16.5	-				
7	I-A2-X-A7	I-C7	Lobsville	-do-	-	1.093E+09	88-97	12,745	1,200	36.0	32.8	0.002	0.07	1.25	248.0	55.8	19.1	-	-	-	-	-	-			
8	I-A3-X-A8	I-C8	Khin	-do-	-	1.093E+09	80-97	4,310	650	48.9	0.011	0.22	0.00	635.0	93.1	27.5	31.1	310.4	446.2	523.0	629.9	765.9	-			
9	I-A4-X-A9	I-C9	Basing	-do-	-	1.093E+09	61-97	5,530	1,500	57.3	0.01	0.20	0.49	516.0	84.3	29.1	29.1	257.9	329.2	378.2	483.1	527.0	57.8			
10	I-A5-X-A10	I-C10	Dindindoucou	Tiemba	-do-	1.093E+09	75-97	2,790	1,300	15.5	0.006	0.13	0.00	214.0	33.1	5.1	5.1	128.7	176.7	201.3	240.1	251.9	-			
11	I-A01-X-A11	I-C11	Ndala (Nzela)	Bandama	-do-	1.093E+09	101,167	1,102	-	-	-	-	-	-	-	-	-	-	-	-	-					
12	I-A1-X-A12	I-C12	Tissalé	-do-	-	1.093E+09	54-96	99,150	1,102	166.6	249.0	0.004	0.05	0.00	2,720.0	623.0	70.3	70.3	1,005.4	1,695.5	2,179.1	3,269.5	3,732.0	171.2		
13	I-A2-X-A13	I-C13	Talbo Dam	-do-	-	-	51-97	57,600	1,140	98.2	90.2	0.002	0.05	-	-	132.5	43.7	43.7	-	-	-	-	-	-		
14	I-A3-X-A14	I-C14	Kosson Dam	-do-	-	-	66-	75-97	32,600	1,154	90.8	91.9	0.003	0.08	-	-	186.4	16.2	16.2	-	-	-	-	-	-	
15	I-A4-X-A15	I-C15	Buda	-do-	-	-	60-	1.093E+09	62-95, 97	24,050	1,172	57.1	89.6	0.004	0.06	0.00	1,150.0	98.2	6.1	6.1	508.1	808.9	969.8	1,222.6	1,296.8	-
16	I-A5-X-A16	I-C16	Toraya Ament	-do-	-	-	60-	1.093E+09	73-97	14,890	1,181	40.8	42.5	0.003	0.08	0.00	554.0	74.2	-	-	316.8	457.6	526.8	626.5	657.9	84.3
17	I-A6-X-A17	I-C17	Tware Amont	-do-	-	-	60-	1.093E+09	79-82, 84-94, 97	53,375	1,130	14.8	14.2	0.003	0.08	0.00	214.0	24.6	-	-	115.3	183.9	239.8	323.4	-	-
18	I-A7-X-A18	I-C18	Nziana (Zienon)	Nzi	-do-	-	60-	1.093E+09	53-96	35,600	1,056	48.1	64.4	0.002	0.04	0.00	845.0	261.0	5.8	5.8	340.5	518.1	623.6	820.0	890.1	-
19	I-A8-X-A19	I-C19	Dimbokro	-do-	-	-	60-	1.093E+09	55-97	24,100	1,059	40.4	46.6	0.002	0.05	0.00	646.0	171.0	22	22	233.1	375.2	445.0	642.5	709.9	-
20	I-A9-X-A10	I-C10	Mbshakro	-do-	-	-	60-	1.093E+09	54-97	15,700	1,063	26.0	38.9	0.002	0.05	0.00	408.0	106.0	1.0	1.0	121.4	194.8	248.9	341.4	594.1	-
21	I-A10-X-A11	I-C11	Rte Kafidja-Dabakala	-do-	-	-	60-	1.093E+09	77-86, 90-97	6,620	1,150	10.8	12.7	0.002	0.04	0.00	231.0	31.0	0.2	0.2	121.4	194.9	213.5	231.9	244.5	-
22	I-A11-X-A12	I-C12	Bouloué	-do-	-	-	60-	1.093E+09	54-97	19,800	1,129	47.4	69.1	0.003	0.07	0.00	971.0	152.0	2.9	2.9	491.9	705.8	787.9	872.6	887.6	-
23	I-A12-X-A13	I-C13	Zuenoula	-do-	-	-	60-	1.093E+09	81-97	16,615	1,134	40.4	48.4	0.002	0.07	0.00	538.0	88.5	2.8	2.8	275.8	410.8	477.7	545.2	582.7	-
24	I-A13-X-A14	I-C14	Matikono	-do-	-	-	60-	1.093E+09	82-87, 92-96	6,700	1,150	18.7	21.2	0.003	0.08	0.00	351.0	42.1	1.3	1.3	166.2	254.1	349.6	363.8	376.2	-
25	I-A14-X-A15	I-C15	Kouroukoro	-do-	-	-	60-	1.093E+09	81-97	4,860	1,150	9.8	11.9	0.002	0.06	0.00	199.0	9.9	1.2	1.2	86.2	137.2	223.6	243.2	-	-
26	I-A15-X-A16	I-C16	Rte Bonne-Kedwéba	Bou	-do-	-	60-	1.093E+09	76-86, 88-97	3,754	1,01	7.9	13.4	0.002	0.07	0.00	134.0	19.3	1.1	1.1	51.5	86.9	111.7	168.0	192.0	-
27	I-H-A1	I-C1	Grano Bassanu	Comoe	-do-	-	-	-	1.093E+09	1,080	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	I-H-A11-X-A2	I-C2	Abradiou	-do-	-	1.093E+09	82-97	74,350	1,039	110.7	107.2	0.001	0.04	0.00	1,060.0	166.0	21.4	21.4	547.7	884.2	1,090.8	1,483.5	1,625.2	111.8		
29	I-H-A2-X-A3	I-C3	Akatomoko	-do-	-	1.093E+09	56-97	57,900	1,039	82.7	107.5	0.002	0.04	0.00	2,469.0	428.0	16.5	16.5	947.6	1,623.7	2,047.2	2,439.8	3,193.9	-		
30	I-H-A3-X-A4	I-C4	Gansse	-do-	-	1.093E+09	76-97	43,100	1,039	10.4	10.4	0.002	0.07	0.00	2,030.0	162.0	17.6	17.6	1,063.0	1,376.2	2,058.8	2,339.9	-	-		
31	I-H-A4-X-A5	I-C5	Kofilo	-do-	-	1.093E+09	72-97	21,200	1,000	59.0	56.4	0.003	0.08	0.00	818.0	129.0	10.0	10.0	357.9	597.5	750.2	1,054.6	1,710.0	59.6		
32	I-H-A2-X-A6	I-C6	Ndaho	Bn	-do-	1.093E+09	73-95	6,222	1,150	5.5	5.6	0.001	0.02	0.00	70.0	9.8	1.2	1.2	26.7	54.8	75.2	126.6	150.0	-		
33	I-V-A1-X-A1	I-C1	Tale	Cavally	-do-	1.093E+09	63-97	28,000	1,951	464.0	484.1	0.017	0.26	0.00	64.0	48.0	628.0	628.0	2,020.0	2,151.9	2,473.1	2,621.5	78.1	71.4		
34	I-V-A1-X-A2	I-C2	Tondjen (Saithili)	-do-	-	1.093E+09	70-97	4,670	1,700	67.7	59.3	0.013	0.27	1.20	374.0	103.0	35.0	40.3	299.2	266.2	303.6	381.6	420.9	33.7		
35	I-V-A1-X-A3	I-C3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
36	I-V-A1-X-A4	I-C4	Bogoe	Bogoe	-do-	1.093E+09	76-87, 89-97	3,050	1,053	46.1	12.2	0.001	0.15	0.00	479.0	95.7	9.4	9.4	194.2	212.0	303.6	319.6	517.4	32.8		
37	I-V-A1-X-A5	I-C5	Konto Avanal	-do-	-	1.093E+09	60-71, 91-97	4,740	1,100	36.8	31.0	0.007	0.16	0.00	589.0	67.0	6.8	19.2	1,623.7	1,623.7	1,623.7	1,623.7	1,623.7	8.1		
38	I-V-A1-X-A6	I-C6	Kankibala	-do-	-	1.093E+09	75-97	5,350	1,100	21.3	21.2	0.004	0.11	0.00	236.0	44.4	7.1	9.5	134.7	203.8	327.5	383.9	445.4	18.2		
39	I-V-A1-X-A7	I-C7	Biaude	Biaude	-do-	1.093E+09	63-78, 83-95	3,370	1,350	20.5	30.4	0.008	0.12	0.00	425.0	56.4	9.2	15.4	233.1	237.5	313.6	601.6	-	-		
40	I-V-A1-X-A8	I-C8	Djiraga	Djiraga	-do-	1.093E+09	60-71, 91-97	1,590	1,300	14.2	16.8	0.008	0.17	0.00	111.0	28.5	7.6	11.2	84.2	108.5	123.6	154.9	167.5	9.5		
41	I-V-A1-X-A9	I-C9	Katodio	Katodio	-do-	1.093E+09	76-97	2,697	1,000	-	-	0.002	0.07	0.00	2,070.0	171.0	41.2	41.2	43.8	600.5	829.2	965.5	1,128.5	1,327.2	-	
42	I-V-A2-X-A10	I-C10	Voh-Nière	Voh-Nière	-do-	1.093E+09	78-95, 97	11,150	1,000	99.9	108.5	0.001	0.03	0.00	1,020.0	171.0	-	-	-	-	-	-	-	-	-	
43	I-V-A2-X-A11	I-C11	Bia	Bia	-do-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
44	I-V-A1-X-A12	I-C12	[Kredjalo]	[Kredjalo]	-do-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
45	I-V-A2-X-A13	I-C13	Ayem-2 Dem	Ayem-2 Dem	-do-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
46	VII-A3-VII-A4	VII-C1	Binianou Avanal	Binianou Avanal	-do-</td																					

Long-term Monthly Average Discharges of Existing Gauging Stations in the Sassandra River Basin

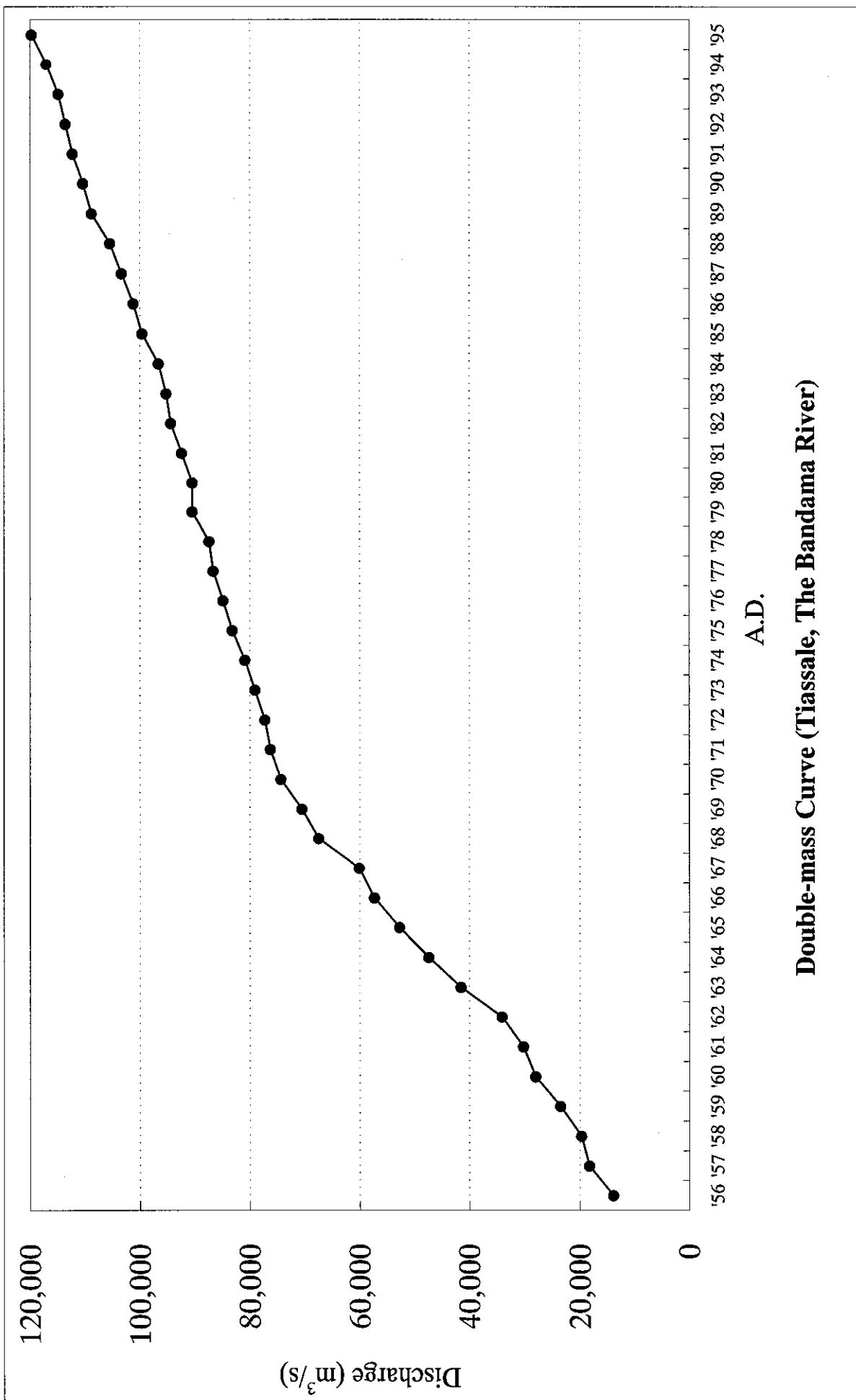
Basin'	River's Name	Station Name	Catchment Area (km ²)	Monthly Discharge (m ³ /s)												Annual (m ³ /s)	Period
				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
Sassandra	Guessabo		35,400	44.8	21.0	17.1	34.7	43.8	80.2	154.0	420.9	854.1	586.5	236.8	85.1	194.8	'53-'80
	Seinien		29,300	25.7	14.2	15.5	24.8	48.1	67.1	177.3	463.9	638.6	368.1	156.6	61.3	175.0	'80-'95
	Sorotona		18,500	16.2	9.4	9.0	13.3	25.5	31.9	102.7	296.2	393.4	209.8	88.9	32.5	103.3	'80-'95
	Soubre		57,670	289.4	294.7	291.2	284.6	259.9	253.0	226.1	242.6	333.0	503.0	385.9	315.5	298.1	'30-'96
	Soutore (LMNG)		346.9	328.0	293.5	337.3	249.1	254.2	198.6	218.2	368.9	425.6	354.3	334.2	240.7	'80-'88, '91-'93	
	Gaudou Pont		70,550	353.8	368.9	368.7	366.7	357.8	414.4	329.0	364.2	475.2	729.1	537.0	399.9	430.6	'80-'89, '91-'96
	Dabala		16,600	17.8	12.2	12.2	15.0	25.6	38.3	104.4	290.2	405.1	224.1	95.2	36.0	114.4	'80-'96
	Piebly		32,619	29.4	18.4	17.5	29.9	56.3	90.1	201.6	538.0	760.1	448.3	180.3	70.9	205.8	'80-'96
	Piebly (LMNG)		19.3	9.0	10.9	13.0	34.5	70.8	142.0	441.4	701.8	316.6	135.1	50.6	174.4	'83-'88, '93	
	Zakue Barrage de Buyo		42,250	33.7	8.6	14.4	47.4	49.3	68.3	173.0	308.5	796.5	343.0	149.0	-	-	'73-'76
Sassandra-Bagoe	N'Golodougou		5,230	9.6	5.8	6.1	9.9	17.2	23.5	55.5	125.9	159.9	88.7	42.2	18.9	46.8	'80-'95
	Bao	Dagibbeouroua	386	0.6	0.5	0.9	1.6	4.1	6.9	4.1	4.7	7.7	9.3	4.3	1.7	4.0	'84-'95
	Bafing	Badala (Bafingdala)	5,930	10.1	7.1	9.3	14.6	22.3	37.7	62.4	126.0	178.7	124.4	61.1	25.8	57.3	'80-'96
	Debo	Guidaboulo	495	0.6	0.4	0.9	1.7	3.3	6.1	3.5	3.0	4.9	6.0	3.2	1.9	3.1	'84-'95
	Davo	Dakpadou	6,625	4.0	1.9	5.1	12.7	28.3	60.1	45.6	28.7	42.3	61.8	38.0	15.1	29.2	'80-'95
	Rte Gangoa-Tsia		2,670	0.4	0.2	0.8	2.5	5.7	9.3	8.7	7.4	15.3	13.4	6.0	2.1	5.8	'80-'95
	Boa	Bountou	10,100	7.0	4.1	1.8	1.5	-	-	6.5	120.6	126.3	111.0	25.8	12.1	-	'73-'77
		Niamotou	2,640	2.9	2.3	1.9	2.2	3.2	4.7	15.2	50.3	60.2	26.5	12.5	5.3	16.1	'80-'95
		Vialadougou	5,825	4.6	3.1	2.8	3.1	5.7	8.3	29.2	92.0	102.8	48.1	22.7	8.8	28.4	'80-'95
	Guemnon	Dueikoue	182	0.2	0.1	0.0	0.2	0.4	1.0	1.1	1.5	5.0	3.9	2.0	0.6	1.2	'69-'73, '75
Gbem	Waninou		133	0.5	0.3	0.4	0.2	0.6	1.0	1.1	3.3	4.5	3.4	1.6	0.8	1.5	'83-'88
		Waninou (LMNG)	0.5	0.2	0.3	0.2	0.6	1.0	1.1	3.4	4.7	3.5	1.8	0.9	1.4	1.4	'83-'88
	Lobo	Nibebite (Nibeigbeu)	7,280	0.4	0.2	0.7	1.4	2.3	3.4	4.7	14.4	37.0	37.1	9.4	1.8	1.0	80-'96
		Nibebite (LMNG)	0.1	0.1	0.7	0.4	1.0	1.1	1.9	9.9	36.4	27.4	5.0	0.9	10.8	'83-'88, '93	
		Loboville	17,738	10.0	9.3	12.3	19.2	30.6	27.4	34.8	32.5	77.8	94.8	43.6	19.6	36.0	'88-'96
		Guiglo	7,100	19.5	6.3	7.2	15.1	16.4	39.9	59.9	206.9	206.0	149.2	65.6	36.4	61.5	55-'80
		Katih	4,310	4.6	2.2	4.5	6.3	11.4	20.7	53.2	129.2	202.1	123.9	44.6	18.6	48.6	'80-'96
		Katih (LMNG)	2.3	1.0	5.8	5.4	10.1	17.6	42.5	106.2	166.3	79.1	28.5	9.6	45.1	'80, '84-'89, '93	
		Zoba	1,053	1.1	0.6	1.7	2.5	3.2	6.4	11.2	29.5	49.4	28.3	10.8	3.9	12.6	'83-'95
	Gueri	Diaboulo	1,260	0.4	0.1	0.6	2.3	5.2	9.2	5.7	3.4	6.2	9.1	4.7	2.1	3.7	'83-'95
Ko		Cagnoa	700	0.1	0.1	0.3	0.9	1.8	2.8	1.6	1.3	1.7	2.6	1.6	0.6	1.3	'80-'89, '92-'95
		Logouale	1,545	1.0	0.3	0.8	1.1	2.6	3.9	10.9	33.0	54.5	34.0	11.1	4.6	13.5	'80-'95
		Man	153	0.4	0.3	0.4	0.5	0.8	1.1	2.3	5.8	8.2	4.5	1.7	0.9	2.3	'80-'95
	Tiemba	Dioulatiedougou	2,790	1.1	0.4	0.2	0.1	0.2	0.8	8.8	45.2	72.3	38.4	14.6	3.9	15.5	'80-'96
		Lille	540	0.1	0.0	0.0	0.0	0.0	0.1	2.0	8.8	15.6	8.1	2.8	0.4	3.2	'80-'89, '91-'95
		Lille (LMNG)	0.1	0.0	0.0	0.0	0.0	0.0	0.1	3.6	11.2	18.5	6.9	2.5	0.5	3.8	'80-'87
	Sien	Kanlasso	168	0.1	0.0	0.0	0.0	0.1	0.1	0.8	2.4	3.1	1.3	0.5	0.2	0.9	'83-'92
		Kanlasso (LMNG)	0.0	0.0	0.0	0.0	0.2	0.1	0.8	2.4	4.1	4.5	1.5	0.4	0.2	0.8	'83-'88, '92-'93
		Nafana-Sienso	610	0.2	0.1	0.1	0.1	0.1	0.2	2.9	10.8	12.3	5.0	2.2	0.5	3.3	'80-'86, '90-'95
		Nafana-Sienso (LMNG)	0.3	0.1	0.1	0.1	0.1	0.3	2.7	9.2	13.0	4.4	1.8	0.5	0.5	2.8	'80-'85, '92
Drou (Droue)		Messadougou	1,320	0.5	0.2	0.1	0.1	0.2	0.3	4.1	19.0	22.8	10.9	4.8	1.1	5.3	'80-'89, '91-'95
		Dent de Man	62	0.1	0.1	0.1	0.1	0.2	0.4	0.8	2.0	2.7	1.7	0.6	0.3	0.8	'80-'96
		Dent de Man (LMNG)	0.1	0.1	0.1	0.1	0.2	0.4	1.0	2.0	2.8	1.3	0.5	0.2	0.7	'80-'89	
		Buyo Dam	42,250	55.9	44.8	24.5	32.9	61.6	136.6	283.9	663.9	1,077.6	719.8	272.7	124.3	295.9	'82-'96

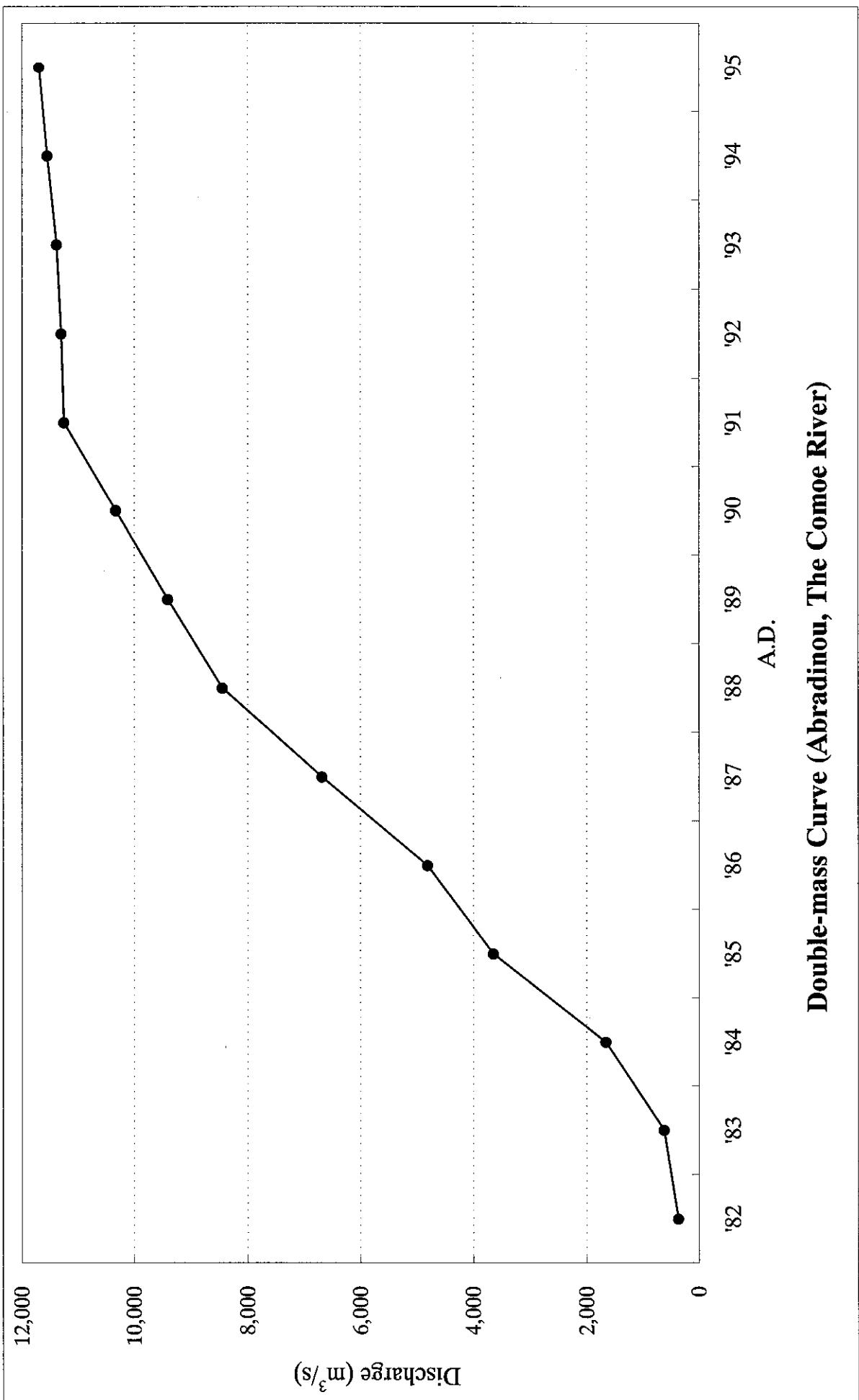
Long-term Monthly Average Discharges of Existing Gauging Stations in the Bandama River Basin

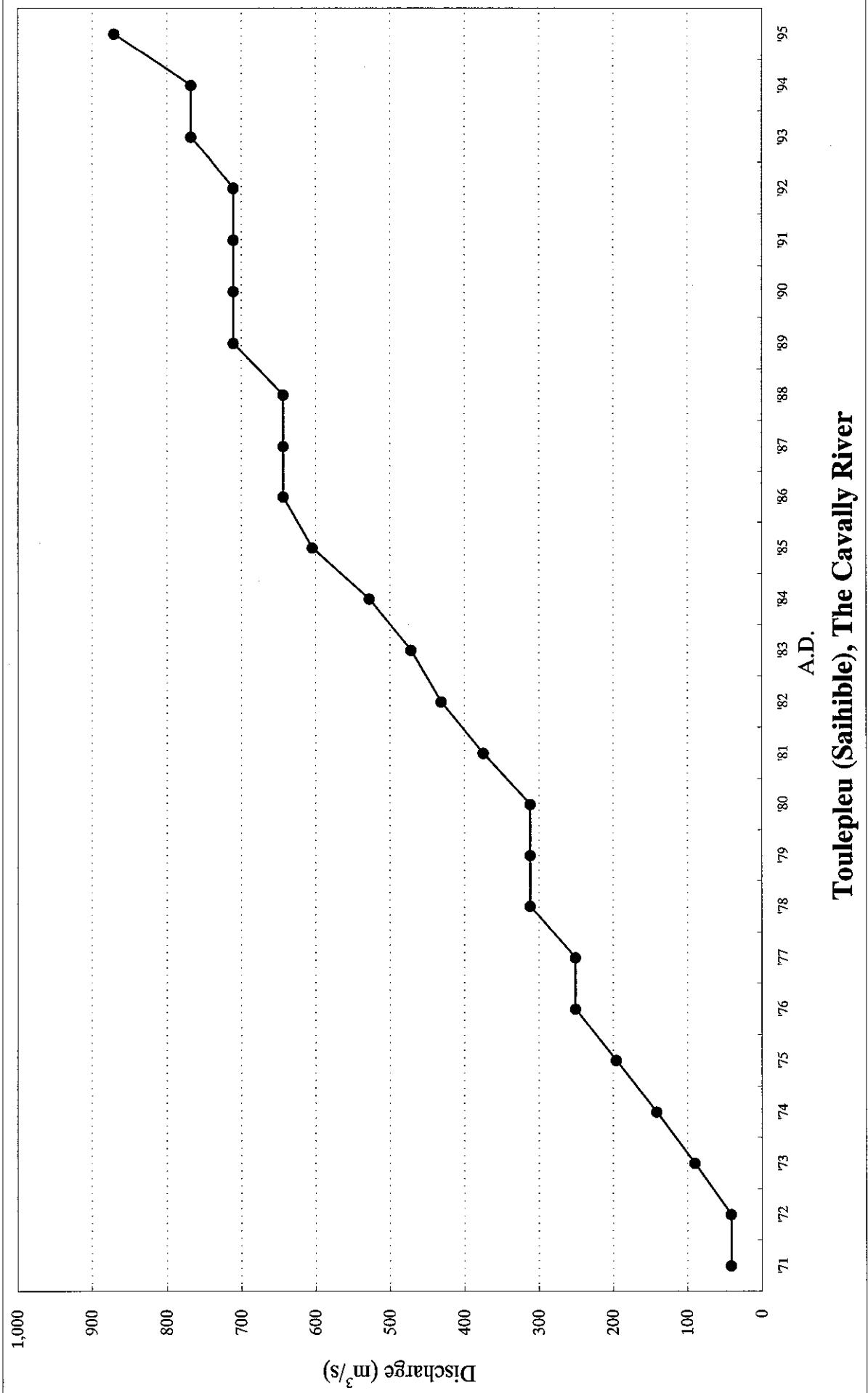
Basin' Name	River's Name	Station Name	Catchment Area (km ²)	Monthly Discharge (m ³ /s)												Annual Discharge (m ³ /s)	Period		
				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec				
Bandama (White Bandama)	Bandama Blate	Bida	20,450	10.48	5.97	3.25	3.90	8.16	17.58	30.76	19.52	40.07	29.79	257.80	91.25	27.54	89.62	'62-'96	
	Rte Kortogo-Badikata		9,850	2.57	1.02	0.81	1.07	1.63	3.32	13.22	60.94	120.5	207.30	10.28	1.30	22.56	75.77	'80-'96	
	Rte Beouini-Siguelia		26,200	28.21	15.40	7.30	14.07	18.22	40.06	91.30	291.69	625.73	514.64	207.79	71.82	160.52	'54-'71	'62-'71	
	Dublo		32,200	36.80	18.01	9.55	12.34	17.97	50.34	109.47	355.44	711.44	618.22	233.78	95.17	150.71	'62-'71	'61-'74	
	Sinematal Point Rte Ferke-Kortogo		7,000	4.89	1.32	1.50	1.52	3.34	17.85	101.52	395.79	701.50	105.80	113.79	39.88	116.53	42.43		
	Kossou		32,400	34.38	17.21	10.89	12.26	17.53	50.06	114.03	324.20	703.40	673.40	238.80	83.44	188.30	63.70		
	Mabadiessa		22,293	2.73	1.23	1.10	2.12	5.89	10.43	34.27	163.15	323.50	166.84	47.45	8.43	13.93	'74-'95		
Bandama (Red Bandama)	Batitao		60,100	60.40	65.87	58.60	63.12	75.14	100.86	91.36	172.61	339.33	389.61	183.01	72.35	142.02	63.95		
	Bozzaï		32,550	31.87	16.04	14.65	20.89	61.52	54.97	148.22	319.75	671.25	574.78	227.25	81.91	185.26	'61-'74		
	Brimbo (M'Brimbo)		27,800	60.95	58.41	52.15	59.20	72.86	107.22	122.26	231.32	616.89	601.56	227.78	92.51	191.93	'53-'95		
	Kintekukro		22,600	71.42	64.02	57.13	56.13	58.67	79.39	106.69	249.93	562.00	491.00	209.95	'74-'94	'56-'95			
	Segoukélé		368	0.18	0.05	0.01	0.06	0.03	0.10	1.14	3.83	5.87	2.27	0.58	0.15	1.19	'74-'95		
	Seguskié (LMNG)		0.69	0.04	0.01	0.02	0.04	0.16	1.15	3.81	5.85	2.11	0.65	0.19	1.18	'74-'86			
	Tiassale		61,850	71.08	65.74	59.33	70.26	55.94	191.74	222.51	304.66	698.28	880.46	289.90	107.53	248.96	'54-'95		
Tawara Tawara Amont	Tawara Amont		5,375	0.36	0.07	0.01	0.08	0.24	1.90	10.90	41.64	284.41	73.33	1.14	14.25	79.82	'84-'87	'94-'95	
	Torta		14,500	2.00	1.07	1.64	2.77	5.09	7.11	24.34	123.38	244.85	97.95	23.92	4.20	42.53	'73-'95		
	Rte Kortogo-M'Bengue (LMNG)		1,953	0.21	0.07	0.03	0.04	0.06	1.29	6.49	35.49	104.00	31.15	7.77	6.93	'74-'86			
	Rte Beouini-Siguelia		12,539	3.65	1.52	1.09	1.78	3.41	9.91	29.85	110.07	239.85	153.91	53.82	12.53	52.03	'54-'95		
	Boutiale		19,800	6.34	2.91	2.34	4.61	8.10	20.46	38.81	106.63	304.70	230.50	80.11	20.42	69.08	'54-'95		
	Boutiale		0.70	0.34	0.91	0.91	2.85	4.38	8.22	11.57	106.85	248.88	92.22	18.39	6.18	41.51	'83-'88		
	Manikoro		6,700	0.65	0.20	0.19	0.22	0.64	1.45	13.21	55.72	95.40	63.77	20.01	2.68	21.17	'62-'95		
Mariotou Mariotou-Kohouwa	Manikoro		5,320	0.10	0.03	0.03	0.05	0.12	1.22	12.78	58.29	94.84	43.37	12.00	1.83	18.81	'76-'88		
	Ziououla		17,314	0.69	0.32	0.33	1.23	3.23	5.49	24.99	105.99	172.03	123.93	40.44	6.01	40.41	'81-'95		
	Frandoise (Kébi)		630	0.16	0.06	0.02	0.02	0.04	0.31	3.07	16.85	22.38	10.22	2.79	0.48	4.70	'62-'95		
	Françoisou (LMNG)		0.66	0.01	0.01	0.00	0.00	0.02	0.32	3.03	11.06	15.07	5.45	1.76	0.31	3.07	'76-'88	'92-'93	
	Badou		567	0.00	0.00	0.00	0.00	0.00	0.00	0.12	1.35	2.24	1.36	0.47	0.04	0.48	'74-'78		
	Badeno		1,800	0.07	0.01	0.00	0.00	0.02	0.13	0.43	3.38	12.51	23.37	7.98	1.59	0.23	4.14	'74-'95	
	Tou		0.70	0.27	0.18	0.27	0.38	1.68	1.85	4.53	11.77	30.04	11.95	3.93	0.54	4.48	'76-'88	'92-'95	
Kan Lalguc Lopohoh Nzé	Bedokro		204	0.04	0.01	0.01	0.03	0.02	0.04	0.46	1.22	21.41	52.73	20.77	6.87	1.63	7.79	'76-'88	'92-'95
	Surasé		980	0.46	0.26	0.36	0.55	0.57	0.67	2.69	7.55	11.77	5.55	2.77	0.56	1.71	'75-'86	'91-'95	
	Kam		831	0.00	0.00	0.00	0.01	0.02	0.12	1.01	2.62	6.93	3.66	0.88	0.05	1.26	'63-'95		
	Lalguc		443	0.27	0.18	0.27	0.38	1.06	1.85	4.53	11.77	30.04	11.95	3.93	0.54	4.48	'76-'88	'92-'95	
	Lopohoh		1,140	0.51	0.14	0.12	0.14	0.11	0.54	3.89	13.44	38.20	17.13	4.80	0.40	2.57	'77-'88	'93	
	Nzé		772	0.02	0.06	0.01	0.25	0.37	1.75	8.80	19.62	70.99	83.38	79.61	164.61	23.02	8.18	'75-'88	'93
	Bocanda		20,500	2.02	1.00	1.03	3.25	8.23	23.42	34.33	70.91	140.85	150.89	47.22	10.73	41.13	'55-'95		
Bemadama	Rte Katiolo-Dibakela		6,620	0.12	0.02	0.05	0.58	1.90	4.08	6.64	20.20	56.55	39.59	11.76	1.07	12.71	'77-'95		
	Rte Katiolo-Dibakela (LMNG)		0.19	0.02	0.02	0.15	4.17	10.41	30.58	46.03	63.98	144.27	179.45	63.13	11.98	10.44	'77-'86		
	Dimboko		24,100	2.67	0.83	1.15	4.17	10.41	30.58	46.03	63.98	144.27	179.45	63.13	11.98	10.44	'77-'86		
	Fetoko		10,000	0.79	0.32	0.44	1.92	5.48	10.22	22.95	57.26	124.35	78.59	24.17	4.11	27.55	'99-'95		
	M'Balaïkro		15,700	1.91	0.71	0.81	3.07	7.60	19.47	33.51	61.57	161.04	133.99	34.31	6.40	38.81	'56-'65	'67-'71	
	Zienoua (N'Zienoua)		35,000	4.47	1.51	1.68	7.10	19.62	70.99	83.38	79.61	164.61	237.02	84.30	16.63	64.41	'53-'95		
	Rte Ngolodougu (LMNG)		463	0.02	0.00	0.00	0.00	0.00	0.00	0.00	1.61	3.18	1.36	0.63	0.14	0.58	'75-'78		
Foumbou	Nifouin		1,922	0.00	0.00	0.00	0.02	0.06	0.10	0.15	4.79	7.63	40.79	24.96	1.74	0.16	0.02	0.26	'74-'78
	Ziébétog		1,510	0.35	0.27	0.79	1.10	1.61	1.49	2.76	15.19	21.93	6.91	2.48	0.36	4.65	'75-'78	'92-'95	
	Katégué		338	0.02	0.00	0.00	0.03	0.02	0.24	0.75	3.25	4.42	2.05	0.44	0.08	0.94	'76-'78		
	Katégué (LMNG)		0.00	0.00	0.00	0.01	0.02	0.05	0.34	1.03	4.07	2.41	0.51	0.08	0.95	'74-'99	'92		
	Beredjanane		1,770	0.03	0.00	0.05	0.02	0.24	0.16	0.65	3.35	12.42	8.00	3.12	0.04	0.07	'77-'83	'83-'95	
	Dimboko		1,110	0.04	0.02	0.02	0.03	0.07	0.20	0.38	0.85	1.35	1.56	1.35	0.33	0.41	'77-'83	'83-'95	
	Zançala (Zancala)		1,622	0.00	0.00	0.03	0.09	0.29	0.38	0.45	0.67	1.58	1.00	0.08	0.02	0.38	'70-'95		
Soungeouou Yau	Lenguedougu Pt. 354		167	0.01	0.00	0.05	0.01	0.19	0.31	2.19	4.05	6.57	11.87	13.21	4.41	0.63	3.32	'83-'95	
	Soungeouou Pt. 354 (LMNG)		1,739	0.04	0.00	0.05	0.01	0.19	0.31	2.19	4.35	12.51	10.92	2.27	0.24	2.76	'76-'78		
	Angoulakro		837	0.02	0.01	0.05	0.06	0.41	0.68	1.28	3.61	15.10	6.90	0.98	0.30	2.45	'83-'95		
	Madj		1,013	0.14	0.03	0.01	0.04	0.12	1.98	9.68	16.53	8.49	3.22	0.57	0.37	3.41	'75-'89	'91-'95	
	Tiébissou		1,230	0.16	0.05	0.15	1.30	3.03	1.43	2.26	7.27	7.20	2.04	0.51	0.24	2.42	'75-'78	'83-'95	
	Kan (de la Marabouté)		1,622	0.00	0.00	0.03	0.09	0.29	0.38	0.45	0.67	1.58	1.00	0.08	0.02	0.38	'70-'95		
	MBé		2,875	0.00	0.06	0.05	0.02	0.35	0.83	4.05	11.77	13.21	0.71	0.24	0.08	0.11	'76-'78		
Soungeouou Yau	Soungeouou		1,739	0.04	0.00	0.05	0.01	0.19	0.31	2.19	4.35	12.51	10.92	2.27	0.24	2.76	'76-'78		
	Yau		1,013	0.14	0.03	0.01	0.04	0.12	1.98	9.68	16.53	8.49	3.22	0.57	0.37	3.41	'75-'89	'91-'95	
	Re Bréto M'Bahlakro		6,230	0.13	0.02														



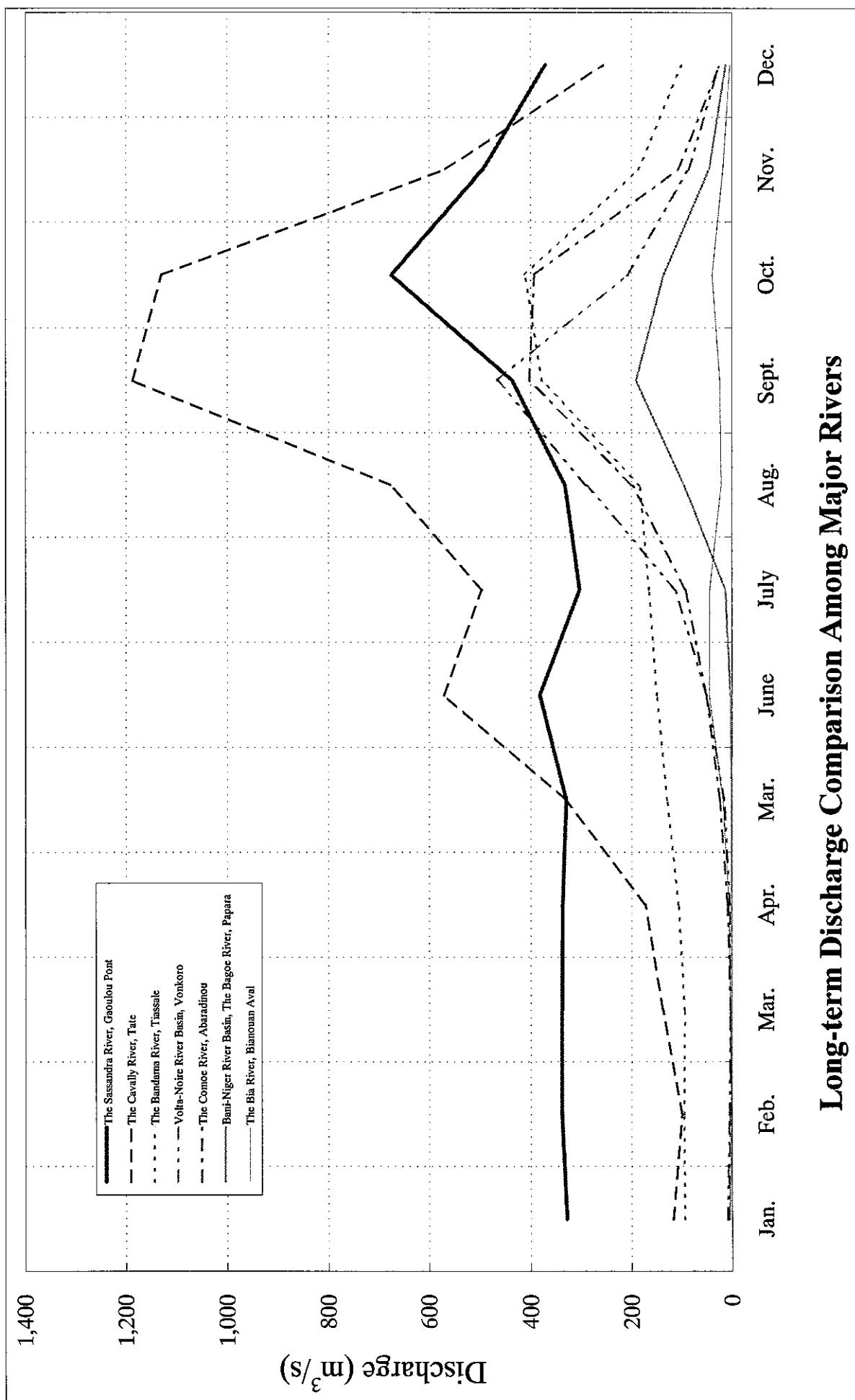
Double-mass Curve (Gaoulou Pont, The Sassandra River)

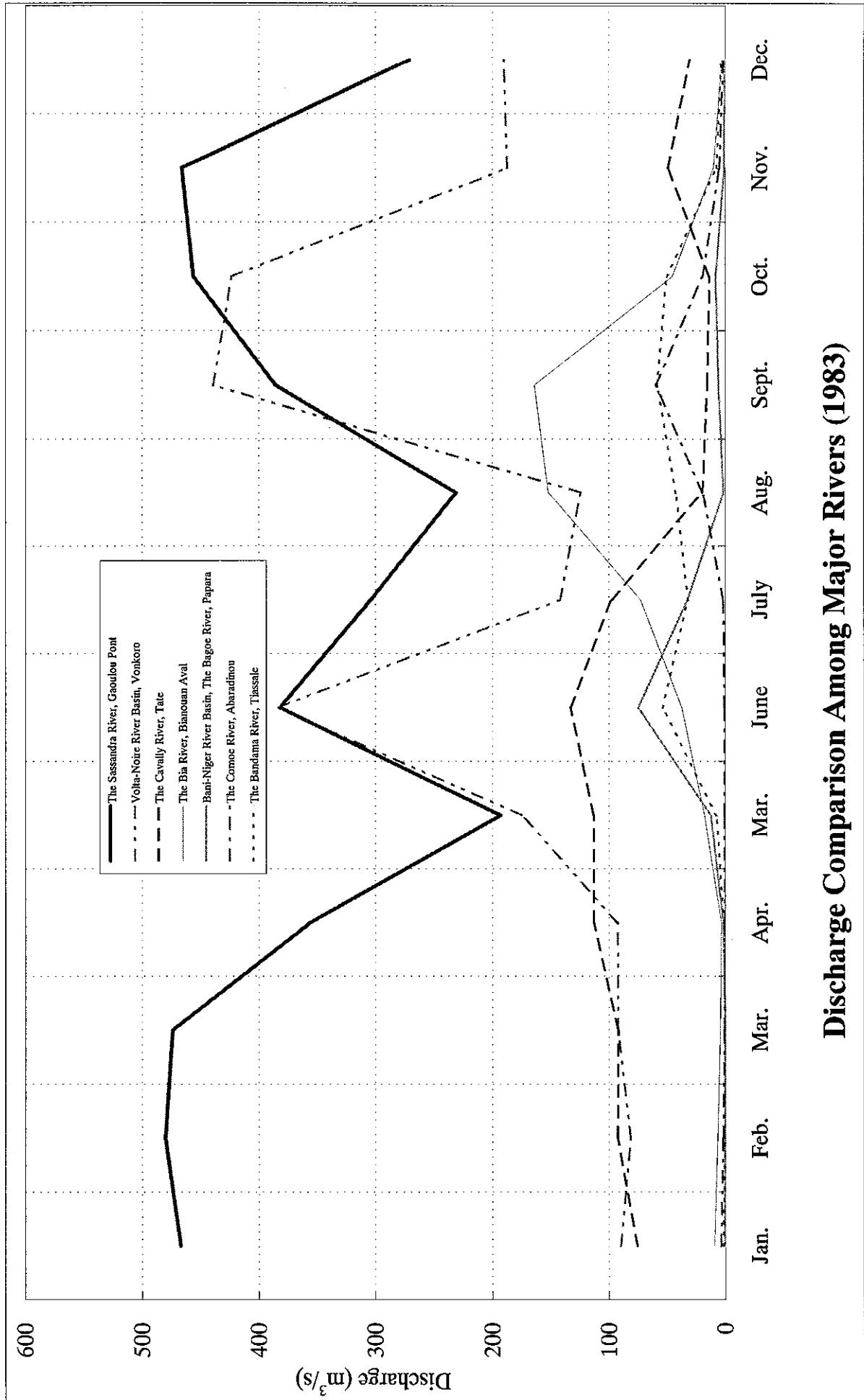






Long-term Discharge Comparison Among Major Rivers





A.D.	Mean Discharge (m ³ /s)												Maximum Discharge Date	Minimum Discharge Date	
	Dry Season				Rainy Season				Annual Season						
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg.	Rainy	
1980	5.63	3.35	1.47	3.80	10.2	20.5	43.1	181	567	-	-	-	-	-	-
1981	-	-	-	-	-	-	56.0	250	234	120	-	-	-	-	-
1982	-	-	1.45	9.16	6.87	5.78	17.6	37.6	117	55.7	36.0	6.56	-	35.7	-
1983	1.30	0.602	0.859	1.40	3.29	3.48	6.89	9.69	26.9	16.1	1.57	0.988	6.1	9.7	1.1
1984	0.001	0	0.432	0.142	7.16	10.9	23.9	57.4	147	83.9	21.7	5.49	29.8	47.2	5.5
1985	2.01	0.261	1.95	7.47	4.85	6.46	52.0	469	547	139	33.7	6.36	105.8	175.1	8.9
1986	2.96	1.69	0.938	3.38	3.31	7.98	11.7	83.7	263	115	50.4	10.7	46.2	69.7	13.3
1987	3.57	2.72	1.47	1.82	0.766	12.6	14.1	63.9	262	143	38.5	10.6	46.3	71.2	11.4
1988	3.33	0.736	0.341	0.017	-	2.92	49.3	172	466	272	29.4	7.77	-	8.3	597
1989	1.81	0.885	1.37	3.61	3.53	6.43	34.2	284	568	190	56.2	28.1	98.2	155.7	17.7
1990	15.8	-	-	-	-	-	-	-	139	104	74.0	-	-	-	-
1991	1.36	0.114	0	0	5.62	14.6	66.8	183	359	135	35.1	6.99	67.3	109.1	8.7
1992	1.69	0.752	0.032	0.199	11.6	20.2	42.0	113	162	93.1	33.8	8.41	40.6	63.2	8.9
1993	3.44	0.509	0.817	0.344	11.1	15.3	16.4	22.9	125	83.3	27.0	5.75	26.0	39.2	7.5
1994	0.685	0.020	0.158	1.45	3.30	12.7	19.6	130	267	456	208	20.8	93.3	127.2	45.9
1995	4.86	1.300	0.235	0.995	13.50	7.5	19.5	144	327	227	64.9	14.1	68.7	123.1	17.1
1996	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Average	3.5	1.0	0.8	2.4	6.5	10.5	31.5	146.3	283.9	146.9	48.9	10.2	57.7	89.7	12.9
MCM	9.4	2.4	2.1	6.2	17.4	27.2	84.4	391.8	735.9	393.5	126.7	27.3	1,824.3	1,656.4	167.9
mm	0.4	0.1	0.1	0.3	0.7	1.1	3.5	16.3	30.6	16.4	5.3	1.1	75.9	68.9	7.0
m ³ /s/100km ²	0.01	0.004	0.003	0.01	0.03	0.04	0.13	0.61	1.18	0.61	0.20	0.04	0.24	0.37	0.05

Note: "-" means data not available

Source: Director of Water

RIVER : BANDAMA
 STATION : KIMOUKRO
 BASIN : BANDAMA

CATCHMENT AREA

ALTITUDE

: 22,600 Km²
 : 131 m

A.D.	Mean Discharge (m ³ /s)												Maximum Discharge m ³ /s	Minimum Discharge m ³ /s	Date						
	Dry Season						Rainy Season														
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg.	Rainy	Dry						
1980	173	178	173	190	127	177	211	315	424	328	165	134	216.3	253.1	164.6	697 09/07 51.4 26/05					
1981	146	69.3	98.8	108	68	-	-	-	-	96.5	89.7	-	-	100.06	265	04/06 14.8 09/12					
1982	162	134	153	197	188	192	137	188	186	116	100	62.7	151.3	172.0	122.34	370 18/04 9.60 05/12					
1983	85.4	109	96.3	128	113	64.8	45.1	6.51	12.3	13.8	16	3.02	57.8	54.8	61.944	202 22/09 1.41 08/04					
1984	4.42	13.2	5.28	2.4	11.1	8.11	38.6	128	173	108	21.4	52.2	47.1	67.0	19.3	287 16/09 0.978 04/02					
1985	41.4	50.7	43	38.2	45	64.4	87.7	250	357	142	71.5	106	108.1	140.6	62.52	435 26/09 2.17 30/07					
1986	134	166	116	120	106	86	107	141	132	83.5	112	118.8	116.3	122.3	340 11/09 13.2 02/04						
1987	127	-	-	64.3	43.3	18.9	48.2	83.3	352	252	122	46.9	-	123.1	-	455 27/09 2.84 31/01					
1988	36.9	75.1	87.3	60.2	59.3	34.7	38.3	122	524	204	74.8	49.5	113.8	148.9	64.72	736 22/09 3.27 30/12					
1989	67.1	-	-	-	-	-	-	106	228	466	212	124	63.6	-	-	-	-	-	-	-	
1990	67.7	129	171	158	78.9	101	100	59.8	123	153	191	120	121.0	110.5	-	346 17/09 4.11 11/06					
1991	192	150	136	129	139	62.4	75.7	105	205	205	118	67.1	132.0	131.6	132.62	423 09/10 14.3 30/12					
1992	58.6	143	83.2	87.1	76	49.8	41.7	109	100	183	110	36.5	89.8	92.4	86.26	269 26/05 6.40 15/07					
1993	74	54.6	77.2	55.8	114	58.1	15.2	104	126	130	81.8	94	82.1	86.2	76.32	269 20/09 4.75 08/04					
1994	52.8	83	90.6	-	-	-	-	-	-	386	265	95.4	-	-	117.36	-	-	-	-	-	
1995	151	124	26.3	45.1	98.1	94.3	67	131	310	260	210	109	135.5	160.1	124.06	401 24/09 3.48 27/03					
1996	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Average	98.3	105.6	96.9	98.8	91.6	79.3	78.4	138.3	250.0	188.3	115.7	77.6	118.2	132.1	98.8	736 27/8/85 0.978					
MCM	263	256	260	256	245	206	210	370	648	504	300	208	3,726	2,440	1,286						
mm	12	11	11	11	9	9	16	29	22	13	9	165	108	57							
m ³ /s/100km ²	0.4	0.5	0.4	0.4	0.4	0.3	0.3	0.6	1.1	0.8	0.5	0.3	0.5	0.6	0.4						

Note: "-" means data not available

Source: Director of Water

RIVER : BANDAMA
STATION : TIASSALE
BASIN : BANDAMA

CATCHMENT AREA

: 61,850 Km²

ALTITUDE

: 13 m

A.D.	Mean Discharge (m ³ /s)												Maximum Discharge			Minimum Discharge			
	Dry Season						Rainy Season						Annual Season		Dry				
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg.	Rainy	Dry	m ³ /s	Date		
1980	142.0	-	176.0	180.0	182.0	211.0	177.0	407.0	701.0	730.0	363.0	167.0	-	368.9	-	1,070	09/10	-	
1981	124.0	102.0	72.4	111.0	170.0	164.0	185.0	229.0	270.0	266.0	148.0	99.0	161.7	192.9	99.4	421	08/10	51.0	
1982	95.2	122.0	105.0	183.0	227.0	319.0	247.0	154.0	182.0	154.0	103.0	73.2	163.7	196.1	98.9	589	30/06	48.8	
1983	75.4	92.6	92.0	113.0	113.0	133.0	97.9	19.3	15.2	13.4	49.0	30.2	70.3	69.2	72.6	297	23/06	8.50	
1984	14.7	10.5	33.0	21.7	27.5	69.1	99.1	183.0	312.0	440.0	134.0	76.7	118.4	160.8	33.7	714	17/10	8.3	
1985	68.9	65.9	65.9	62.4	98.6	123.0	174.0	458.0	843.0	699.0	181.0	112.0	246.1	329.9	78.4	947	27/09	23.9	
1986	132.0	146.0	123.0	119.0	130.0	107.0	112.0	128.0	149.0	226.0	117.0	108.0	133.1	136.0	127.3	322	03/10	69.2	
1987	115.0	91.9	72.4	72.6	71.1	80.9	85.4	92.4	547.0	684.0	167.0	76.3	179.7	225.1	88.9	836	20/10	54.7	
1988	55.9	81.0	93.1	66.8	119.0	105.0	102.0	128.0	678.0	493.0	99.0	87.6	175.7	223.9	79.4	1,160	27/09	22.5	
1989	77.2	79.2	73.5	99.4	116.0	180.0	346.0	379.0	798.0	845.0	298.0	79.3	280.9	382.7	77.3	1,350	07/10	32.0	
1990	75.5	116.0	117.0	164.0	126.0	128.0	110.0	94.7	145.0	166.0	181.0	123.0	128.9	139.3	107.9	297	07/04	25.4	
1991	152.0	129.0	146.0	123.0	177.0	139.0	249.0	153.0	262.0	173.0	119.0	85.9	159.0	174.4	128.2	474	18/07	32.7	
1992	68.8	117.0	95.1	84.3	112.0	113.0	99.4	109.0	106.0	165.0	122.0	80.2	106.0	113.8	90.3	251	22/10	31.2	
1993	62.9	69.9	80.4	87.8	115.0	144.0	105.0	97.1	158.0	191.0	115.0	85.9	109.3	126.6	74.8	309	07/10	26.1	
1994	61.8	78.7	91.0	124.0	137.0	167.0	64.0	52.8	181.0	583.0	472.0	112.0	177.0	222.6	85.9	867	13/10	22.5	
1995	148.0	127.0	47.9	80.0	157.0	217.0	235.0	192.0	483.0	583.0	277.0	124.0	222.6	278.0	111.7	735	30/10	16.1	
1996	129.0	98.7	115.0	118.0	111.0	138.0	318.0	237.0	591.0	475.0	214.0	162.0	225.6	275.3	126.2	-	-	-	
Average	94.0	95.5	94.0	106.5	128.8	149.3	165.0	183.1	377.7	405.1	185.8	99.0	173.7	212.7	95.6	1,350	07/10/89	8.3	
MCM	251.8	231.0	251.8	276.0	345.0	387.0	441.9	490.4	979.0	1,085.0	481.6	265.2	5,485.7	4,485.9	999.8				
mm	4.1	3.7	4.1	4.5	5.6	6.3	7.1	7.9	15.8	17.5	7.8	4.3	88.7	72.5	16.2				
m ³ /s/100km ²	0.15	0.15	0.17	0.21	0.24	0.27	0.30	0.61	0.65	0.30	0.16	0.28	0.34	0.15					

Note: "-" means data not available

Source: Director of Water

RIVER : BANDAMA (BLANC)
 STATION : TAWARA AMONT
 BASIN : BANDAMA

CATCHMENT AREA : 5,375 Km²
 ALTITUDE : m

A.D.	Mean Discharge (m ³ /s)												Maximum Discharge m ³ /s	Minimum Discharge m ³ /s	Date				
	Dry Season			Rainy Season			Annual			Season									
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg.	Rainy	Dry	Date			
1980	0.383	0.086	0	0	2.74	21.4	44.1	149	34.0	14.8	3.55	22.5	41.9	3.1	214	13/09	0	27/03	
1981	0.980	0.216	0.072	0	0.050	2.15	24.3	91.8	59.6	20.5	4.13	0.948	17.1	33.1	1.1	131	08/08	0	21/04
1982	0.152	0.005	0	0.573	0.029	0	1.05	21.2	34.0	8.22	3.89	0.607	5.8	10.7	0.9	47.8	11/09	0	23/03
1983	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1984	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1985	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1986	0.155	0.013	0	0	0.492	1.00	2.89	-	-	13.7	3.37	0.727	-	-	0.7	152	16/09	0	14/02
1987	-	-	0	0	1.68	4.03	-	-	-	-	0.718	-	-	-	-	0	-	-	
1988	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1989	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1990	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1991	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1992	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1993	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1994	-	-	-	-	0.397	0.480	4.99	30.5	66.1	80.2	21.8	1.00	-	30.4	-	118	24/09	0	-
1995	0.463	0.088	0	0	0.629	1.060	7.74	42.1	67.2	29	6.57	1.00	13.0	24.6	1.4	85	01/09	0	-
1996	0.139	0	0	0.233	0.412	1.64	9.79	26.7	97.3	45.9	5.78	1.20	15.8	30.3	1.2	-	-	-	-
Average	0.4	0.1	0	0.1	0.3	1.3	9.5	36.9	69.8	29.5	7.2	1.1	13.0	24.6	1.5	214	13/9/80	0	
MCM	1.1	0.2	0	0.3	0.8	3.4	25.4	98.8	180.9	79.0	18.7	2.9	411.5	388.3	23.2				
mm	0.2	0.04	0	0.1	0.1	0.6	4.7	18.4	33.7	14.7	3.5	0.5	76.6	72.2	4.3				
m ³ /s/100km ²	0.01	0.002	0	0.002	0.01	0.02	0.18	0.69	1.30	0.55	0.13	0.02	0.24	0.46	0.03				

Note: "-" means data not available
 Source: Director of Water

RIVER : BANDAMA (BLANC)
 STATION : TORTIYA AMONT
 BASIN : BANDAMA

CATCHMENT AREA : 14,500 Km²
 ALTITUDE : 269 m

A.D.	Mean Discharge (m ³ /s)												Maximum Discharge				Minimum Discharge		
	Dry Season				Rainy Season				Dry Season				Annual Season		Dry		m ³ /s	Date	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg.	Rainy	Dry	m ³ /s	Date		
1980	-	-	2.53	4.70	11.6	36.4	102	361	123	52.6	9.26	-	106.5	-	462	19/09	-		
1981	3.05	2.56	2.97	2.92	10.1	15.6	50.0	211	169	68.9	10.8	3.10	45.8	87.4	4.2	311	10/08	1.71 03/02	
1982	3.14	2.20	2.19	5.04	2.94	4.24	9.07	31.3	91.8	27.4	17.0	2.39	16.6	27.8	5.3	113	13/09	0.805 23/02	
1983	1.48	1.68	1.99	-	-	-	5.47	24.7	6.25	1.11	0.456	-	-	1.1	68	19/09	0.190 31/02		
1984	0.284	0.056	0.380	0.780	7.14	7.24	17.0	34.8	102	53.4	8.83	2.84	19.6	36.9	2.2	174	18/09	0 24/02	
1985	1.01	0.399	5.35	3.54	5.32	4.92	44.3	348	369	88.2	16.5	3.57	74.2	143.3	5.1	564	17/08	0.094 11/03	
1986	3.56	1.45	1.96	4.56	2.87	6.90	6.73	76.5	269	82.3	38.7	6.93	41.8	74.1	9.5	326	18/09	0.718 27/02	
1987	4.26	2.85	3.08	1.39	2.82	12.1	10.0	69.8	209	97.1	19.2	5.86	36.5	66.8	6.1	272	05/09	0.435 13/05	
1988	2.37	0.804	0.648	1.44	1.39	2.50	22.1	136	325	200	15.1	3.86	59.3	114.5	4.0	461	02/10	0.241 14/03	
1989	4.01	2.11	2.94	3.37	-	3.80	24.1	247	370	99.0	11.6	3.72	-	-	4.6	478	18/09	0.831 15/03	
1990	2.10	0.893	0.379	3.12	4.36	3.85	4.33	155	94.6	50.4	6.85	1.71	27.3	52.1	2.5	262	11/08	0.068 29/03	
1991	0.351	0.048	0.254	1.02	3.52	7.36	50.0	196	304	112	18.8	3.09	58.0	112.1	3.9	438	07/09	0 08/02	
1992	1.06	0.386	1.11	4.57	12.5	12.4	49.5	-	157	57.7	19.0	5.39	-	-	5.3	300	03/08	0.145 23/02	
1993	1.70	0.229	0.442	3.91	7.31	10.0	10.6	12.9	90.3	48.6	10.2	1.45	16.5	30.0	3.0	149	13/09	0.081 13/02	
1994	0.426	0.203	0.121	0.703	4.75	6.86	12.2	87.9	190	261	76.3	4.73	53.8	93.8	13.7	390	29/09	0.017 12/04	
1995	1.15	0.204	0.767	2.71	4.02	2.41	-	-	192	110	21.5	4.05	-	-	5.1	257	24/09	0.047 25/02	
1996	1.04	0.232	0.747	3.24	-	6.93	10.5	49	273	150	14.1	4.55	-	-	4.0	-	-	-	
Average		1.9	1.0	1.6	2.8	5.3	7.4	23.8	117.5	211.3	96.2	21.1	3.9	41.2	76.9	5.4	564	17/8/85	0
MCM		5.1	2.4	4.3	7.3	14.2	19.2	63.7	314.7	547.7	257.7	54.7	10.4	1,301.4	1,217.2	84.2			
mm		0.4	0.2	0.3	0.5	1.0	1.3	4.4	21.7	37.8	17.8	3.8	0.7	89.8	83.9	5.8			
m ³ /100km ²		0.01	0.01	0.01	0.02	0.05	0.16	0.81	1.46	0.66	0.15	0.03	0.28	0.53	0.04				

Note: "—" means data not available

Source: Director of Water

A.D.	Mean Discharge (m ³ /s)												Maximum Discharge				Minimum Discharge			
	Dry Season				Rainy Season				Annual Season				Rainy		Dry		m ³ /s		Date	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg.	Rainy	Dry	m ³ /s	Date			
1980	0	-	-	-	-	20.8	66.5	232	339	279	109	17.9	-	-	-	488	07/10	0	07/02	
1981	3.87	1.01	1.02	1.60	12.7	14.1	75.7	185	175	72.7	17.0	3.58	46.9	76.7	5.3	264	28/08	0.444	25/02	
1982	0.972	1.33	1.52	5.42	5.80	28.2	13.7	40.0	143	64.0	28.4	7.07	28.3	42.9	7.9	206	10/09	0.111	10/02	
1983	1.27	0.051	0	1.07	3.50	1.01	0.221	12.2	12.1	2.82	0.475	2.9	4.3	0.9	30	02/10	0	14/05		
1984	0.163	0	1.05	4.27	10.8	3.47	20.0	117	159	93.5	19.8	5.24	36.2	58.3	5.3	284	03/08	0	19/03	
1985	1.13	0.225	0.924	7.65	3.01	1.80	25.7	229	325	113	24.9	5.92	61.5	100.7	6.6	390	15/09	0	04/03	
1986	1.33	0.764	1.02	1.79	1.72	1.41	1.79	62.6	129	83.3	23.7	6.37	26.2	40.2	6.6	200	25/09	0	15/07	
1987	2.10	0.361	0	0.011	3.36	6.52	8.40	59.8	319	194	32.7	8.82	52.9	84.4	8.8	430	07/09	0	19/04	
1988	2.94	0.562	1.40	0.235	2.12	0.900	36.6	141	548	169	23.6	1.11	77.3	128.3	5.9	780	25/09	0	31/12	
1989	-	-	5.76	4.18	4.62	6.37	34.2	-	-	161	24.7	-	-	-	-	-	-	-	-	
1990	0	-	-	-	-	-	-	47.0	-	-	-	-	-	-	-	-	0	-	-	
1991	10.2	5.26	3.18	7.55	15.7	20.3	34.9	65.0	152	61.9	26.3	13.1	34.6	51.1	11.6	339	07/09	1.99	04/04	
1992	1.88	-	-	-	0.554	2.89	11.0	65.4	77.3	175	39.1	7.77	-	-	-	269	06/10	0	24/03	
1993	1.64	0.711	2.75	4.31	3.27	6.08	23.0	89.9	105	18.8	4.40	21.9	33.5	5.6	244	11/10	0.667	20/02		
1994	0.775	0.109	0	0.928	2.63	6.83	5.50	30.3	285	432	246	16.2	85.5	109.0	52.6	538	21/10	0	-	
1995	4.04	0.963	0.098	1.5	7.03	9.66	9.89	135	310	210	43.2	9.91	61.8	97.6	11.6	392	11/09	0	11/04	
1996	3.61	1.28	2.23	2.94	4.22	6.76	48.6	92.6	538	221	34	11.6	80.6	130.6	10.5	-	-	-	-	
Average	m ³ /s	2.2	1.0	1.5	2.9	5.3	8.5	25.0	95.3	240.1	152.9	44.6	8.0	48.9	75.7	11.5	780	25/9/88	0	
MCM		5.9	2.4	4.0	7.5	14.2	22.0	67.0	255.3	622.3	409.5	115.6	21.4	1,547.1	1,397.8	149.3				
mm		0.3	0.1	0.2	0.4	0.7	1.1	3.4	12.9	31.4	20.7	5.8	1.1	78.1	70.6	7.5				
m ³ /s/100km ²		0.01	0.01	0.01	0.03	0.04	0.13	0.48	1.21	0.77	0.23	0.04	0.25	0.38	0.06					

Note: "—" means data not available

Source: Director of Water

A.D.	Mean Discharge (m ³ /s)												Maximum Discharge				Minimum Discharge		
	Dry Season				Rainy Season				Dry Season				Annual Season		Season		Discharge		
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg.	Rainy	Dry	m ³ /s	Date	m ³ /s	Date
1980	0.566	0.149	0.077	0.080	1.33	1.52	4.15	79.1	146	104	35.0	5.69	31.5	48.0	8.3	230	26/08	0.013	10/04
1981	1.20	0.231	0.072	0.111	1.59	5.55	42.5	107	83.6	28.8	5.46	1.30	23.1	38.5	1.7	159	04/08	0	08/04
1982	0.218	0.120	0.277	0.636	0.104	0.161	1.31	32.5	79.3	30.5	10.6	1.04	13.1	20.6	2.5	162	08/09	0.009	12/03
1983	0.163	0.023	0.004	0.001	0.727	0.149	0.009	0.748	10.7	2.56	0.269	0.042	1.3	2.1	0.1	20.0	12/09	0	22/04
1984	0	0	0.026	0.260	1.09	0.018	5.51	31.2	88.6	18.2	2.97	0.636	12.4	20.7	0.7	119	08/09	0	07/03
1985	0.104	0.002	0	0	0.003	0.021	16.2	76.9	76.1	24.3	6.19	0.839	16.7	27.6	1.4	127	11/09	0	24/04
1986	0.099	0	0.007	0.007	0.006	0.622	3.82	36.9	64.3	28.1	9.70	1.39	12.1	19.1	2.2	105	22/09	0	02/03
1987	0.283	0.032	0	0	-	1.06	2.39	31.2	91.6	45.6	8.92	2.00	-	-	2.2	174	11/09	0	25/05
1988	0.496	0.064	0.154	0.161	0.034	0.873	25.8	91.3	-	52.8	7.88	1.85	-	-	2.1	-	-	-	-
1989	0.788	0.134	-	0.348	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1990	-	-	-	-	-	-	-	-	27.6	22.6	17.4	3.82	1.94	-	-	44.9	08/04	-	-
1991	0.421	0.028	-	-	-	-	-	-	-	-	21.0	4.33	1.03	-	-	-	-	-	-
1992	0.253	-	-	-	-	-	8.93	25.7	41.0	65.0	10.8	1.45	-	-	-	192	02/10	0.092	02/02
1993	0.570	0.044	0.199	0.194	0.611	0.842	6.91	17.0	47.5	34.5	5.58	1.12	9.6	15.4	1.5	67	13/10	0	30/04
1994	0.214	0.008	0	0.081	0.111	0.502	1.17	18.8	130	195	109	5.20	38.3	49.4	22.9	265	01/11	0	-
1995	0.924	0.288	0.097	0	0.835	0.615	2.82	102	144	83.5	11.7	2.28	29.1	55.6	2.5	205	02/09	0	16/04
1996	0.653	0.319	0.303	1.060	0.337	1.15	2.24	39.7	-	-	-	-	-	-	-	-	-	-	-
Average	0.4	0.1	0.1	0.2	0.6	1.0	8.8	47.8	78.9	50.1	15.5	1.9	17.1	26.8	3.6	265	1/11/94	0	
MCM	1.1	0.2	0.3	0.5	1.6	2.6	23.6	128.0	204.5	134.2	40.2	5.1	541.9	495.0	46.9				
mm	0.2	0.03	0.04	0.1	0.2	0.4	3.5	19.1	30.5	20.0	6.0	0.8	80.9	73.9	7.0				
m ³ /100km ²	0.01	0.001	0.003	0.01	0.01	0.13	0.71	1.18	0.75	0.23	0.03	0.26	0.40	0.05					

Note: "—" means data not available

Source: Director of Water

RIVER : MARAHOUE
 STATION : ZIENOULÀ
 BASIN : BANDAMA

CATCHMENT AREA : 17,314 Km²
 ALTITUDE : m

A.D.	Mean Discharge (m ³ /s)												Maximum Discharge m ³ /s	Minimum Discharge m ³ /s		
	Dry Season			Rainy Season			Dry Season			Annual Season						
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec				
1980	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
1981	-	-	-	-	14.8	15.9	78.5	214	174	61.3	13.7	2.31	-	282		
1982	0.296	0.368	0.372	7.97	1.99	10.4	13.5	57.5	150	59.8	26.0	3.00	27.6	43.0		
1983	0.206	0.074	0.014	0	1.81	0.720	0.154	0.297	21.1	8.10	0.552	0.189	2.8	4.6		
1984	0	0	2.840	0.833	8.56	0.202	24.3	116	181	79.8	14.5	1.49	35.8	58.7		
1985	0.460	0.233	0.435	0.302	0.535	1.49	34.9	221	287	95.4	24.9	2.56	55.8	91.5		
1986	0.723	0.824	0.630	0.557	0.614	0.766	-	-	123	77.8	28.8	3.60	-	6.9		
1987	0.622	0.459	0.415	0.295	0.422	5.80	8.40	71.9	281	160	36.8	7.56	47.8	75.4		
1988	0.786	0.659	0.734	0.414	0.651	0.644	48.2	-	-	151	30.8	7.42	-	8.1		
1989	0.875	0.486	0.512	0.736	0.866	3.76	39.0	245	-	139	36.4	5.56	-	8.8		
1990	1.80	0.421	0.181	0.841	2.23	11.0	6.65	68.9	70.6	71.2	29.4	20.2	23.6	33.1		
1991	1.29	0.269	0.543	0.797	5.32	14.6	36.6	82.7	162	66.8	17.8	2.32	32.6	52.7		
1992	0.358	0.356	0.287	0.446	1.63	3.92	18.5	72.2	84.2	163	41.4	5.16	32.6	49.1		
1993	0.041	0	0.060	1.98	0.931	0.772	13.2	35.4	90.5	85.8	19.4	1.91	20.8	32.7		
1994	0.244	0.040	0.263	1.14	3.39	6.02	13.0	46.0	313	424.0	237.0	17.90	88.5	115.2		
1995	1.92	0.225	0.134	0.944	4.67	6.34	14.9	147.0	299	216.0	49.2	8.92	62.4	98.4		
1996	1.52	1.38	2.85	4.03	2.11	12.1	33.3	-	-	199	38	11.9	-	11.1		
Average	m ³ /s	0.7	0.4	0.7	1.4	3.2	5.9	25.5	106.0	172.0	128.6	40.3	6.4	40.9		
MCM		1.9	1.0	1.9	3.6	8.6	15.3	68.3	283.9	445.8	344.4	104.5	17.1	1,296.3		
mm		0.1	0.1	0.1	0.2	0.5	0.9	3.9	16.4	25.7	19.9	6.0	1.0	74.9		
m ³ /100km ²	0.004	0.002	0.004	0.01	0.02	0.03	0.15	0.61	0.99	0.74	0.23	0.04	0.24	0.37		

Note: "—" means data not available

Source: Director of Water

RIVER STATION BASIN		CATCHMENT AREA ALITUDE : m : BANDAMA																		
A.D.	Dry Season	Mean Discharge (m ³ /s)												Maximum			Minimum			
		Rainy Season			Dry Season			Annual			Season			Discharge			Discharge			
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg.	Rainy	Dry	m ³ /s	Date	m ³ /s	Date
1980	1.09	0.648	1.95	2.25	1.67	3.66	14.6	39.5	87.3	52.0	20.7	6.62	19.3	33.1	5.5	11.5	24/09	0.187	11/02	
1981	1.96	0.764	0.422	0.475	1.49	5.05	16.3	39.0	46.1	17.9	5.44	1.30	11.4	21.0	1.7	62.7	10/09	0.205	30/03	
1982	0.318	0.103	0.077	0.337	0.111	0.138	2.85	9.59	24.2	13.6	6.78	0.970	4.9	8.4	1.4	43.3	15/09	0.009	10/03	
1983	0.373	0.610	0.763	0.162	0.262	0.421	1.12	2.84	5.11	1.45	0.327	0.215	1.1	1.9	0.4	11.0	24/09	0.081	07/05	
1984	0.029	0	0	0.008	0.551	0.755	1.42	7.89	27.4	7.94	0.923	0.274	3.9	7.7	0.2	39.6	08/09	0	31/01	
1985	0.116	0.003	0	0.002	0.416	0.384	18.0	83.0	64.5	16.2	3.62	0.477	15.6	30.4	0.7	134	24/08	0	04/02	
1986	0.080	-	-	-	-	-	-	-	23.6	33.1	10.2	4.85	1.07	-	-	46.6	16/09	-	-	
1987	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
1988	-	-	0.255	0.429	1.01	6.41	34.2	-	-	3.93	0.722	-	-	-	-	-	-	-		
1989	0.174	0.005	0	0.002	0.374	0.388	6.34	31.2	-	21.7	2.46	0.65	-	-	0.5	-	-	0	-	
1990	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
1991	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
1992	0.219	0	0	0.001	0.627	-	-	10.0	16.6	15.6	4.46	0.879	-	-	0.9	28.4	11/09	0	-	
1993	0.167	0.057	-	0.158	0.180	-	1.89	2.93	18.2	11.6	-	-	-	-	-	36.0	11/09	0	05/02	
1994	-	-	0.231	0.650	0.524	1.63	6.56	-	-	-	3.40	-	-	-	-	76.8	26/10	0	10/04	
1995	0.523	0.044	0.099	0.118	0.746	0.517	6.65	47.8	57.8	43.2	10.9	2.32	14.2	26.1	2.3	71.6	17/09	0	12/03	
1996	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Average	m ³ /s	0.5	0.2	0.4	0.3	0.6	1.3	7.0	26.0	38.0	19.2	5.9	1.6	8.4	15.4	1.5	134	24/8/85	0	
MCM		1.3	0.5	1.1	0.8	1.6	3.4	18.7	69.6	98.5	51.4	15.3	4.3	266.5	243.2	23.3				
mm		0.4	0.1	0.3	0.2	0.4	0.9	5.0	18.8	26.5	13.9	4.1	1.2	71.8	65.6	6.3				
m ³ /s/100km ²		0.01	0.01	0.01	0.02	0.04	0.19	0.70	1.02	0.52	0.16	0.04	0.23	0.41	0.04					

Note: "—" means data not available
Source: Director of Water

RIVER STATION BASIN		CATCHMENT AREA ALTITUDE : BASIN		Mean Discharge (m³/s)												Maximum Discharge Date		Minimum Discharge Date	
A.D.	Dry Season			Rainy Season						Dry Season			Annual Season			Discharge m³/s		Discharge m³/s	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg.	Rainy	Dry	Date	Date		
1980	0.766	0.380	0.182	0.102	4.76	22.7	12.2	128	268	207	108	19.2	64.3	91.8	25.7	333	28/09	0.021	24/04
1981	2.42	0.580	1.22	2.14	20.6	21.5	33.3	78.9	65.5	81.9	13.1	1.71	26.9	43.4	3.8	145	30/09	0.206	05/03
1982	0.292	0.045	1.36	12.8	8.60	9.89	10.3	6.20	12.8	19.5	13.8	1.85	8.1	11.4	3.5	55.0	26/04	0	12/03
1983	0.190	0.001	0	5.30	6.83	1.67	0.227	0.202	0.516	0.118	0.035	1.3	2.1	0.1	27.2	29/05	0	-	-
1984	0	0	0.585	1.20	5.22	5.58	21.2	57.6	103	148	35.6	4.06	31.8	48.8	8.0	186	17/10	0	-
1985	0.831	0.161	0.034	0.048	2.71	4.76	70.3	195	395	235	37.8	6.15	79.0	129.0	9.0	429	10/09	0	27/04
1986	0.870	0.459	1.29	0.937	1.85	4.03	6.07	17.6	60.7	48.4	26.3	4.18	14.4	19.9	6.6	112	21/09	0.124	16/02
1987	0.385	0.028	0	0.115	0.937	9.50	10.1	39.7	200	206	27.1	4.81	41.6	66.6	6.5	308	07/10	0	27/03
1988	0.820	0.067	0.182	0.451	0.886	1.82	32.4	33.7	176	127	14.5	4.04	32.7	53.2	3.9	234	27/09	0	05/03
1989	0.628	0.028	6.57	1.73	2.17	14.2	79.1	127	313	267	59.4	10.2	73.4	114.9	15.4	411	01/10	0	11/03
1990	-	-	-	-	-	-	-	-	-	-	12.3	4.57	-	-	-	-	-	-	-
1991	1.09	0.037	0.029	0.180	-	24.6	-	50.7	97.5	47.7	12.7	2.24	-	-	3.2	143	10/09	0	14/04
1992	-	0	0	3.35	3.65	7.98	2.08	-	20.1	46.0	31.9	6.09	-	-	-	73.3	08/10	0	-
1993	0.735	0.008	0.736	2.36	3.97	1.79	1.32	-	76.4	65.2	16.1	2.61	-	-	4.0	138	10/09	0	05/03
1994	0.184	0	0.002	0.003	5.08	8.70	2.16	24.4	114	212	93.0	6.36	38.8	52.3	19.9	221	01/10	0	14/04
1995	1.16	0.083	0.013	0.788	15.8	16.40	31.7	56.5	184	206	48.4	5.43	47.2	73.0	11.0	268	25/09	0	05/03
1996	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Average	m3/s	0.7	0.1	0.8	1.7	5.8	10.7	22.4	62.7	139.1	127.8	34.4	5.2	34.3	52.9	8.2	429	20/9/57	0
MCM	1.9	0.2	2.1	4.4	15.5	27.7	60.0	167.9	360.5	342.3	89.2	13.9	1,085.6	978.3	105.2				
mm	0.1	0.01	0.1	0.2	0.8	1.4	2.9	8.2	17.6	16.7	4.4	0.7	53.0	47.7	5.1				
m³/s/100km²	0.003	0.000	0.004	0.01	0.03	0.05	0.11	0.31	0.68	0.62	0.17	0.03	0.17	0.26	0.04				

Note: "—" means data not available

Source: Director of Water

RIVER STATION BASIN		CATCHMENT AREA : N°ZI : RIE KATIOLA-DABAKALA : BANDAMA												ALITUDE : m		6,620 Km ²		
A.D.		Mean Discharge (m ³ /s)												Maximum Discharge		Minimum Discharge		
		Dry Season			Rainy Season			Dry Season			Annual			Season		Date		
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg.	Rainy	Dry	m ³ /s	Date		
1980	0.327	0.052	0.002	0.016	2.67	6.98	10.4	58.5	136	58.8	22.2	3.24	24.9	45.6	4.3	231	27/08/00	
1981	0.543	0.066	0.085	0.036	1.66	6.17	9.84	50.1	39.9	24.8	3.81	0.413	11.5	22.1	0.8	92.8	20/10/00	
1982	0.037	0	0.091	2.91	0.513	0.294	1.67	5.14	6.40	8.26	9.24	0.413	2.9	3.7	2.1	41.6	22/04/00	
1983	0.033	0	0	0	0.715	0.205	0.057	0.165	0.252	0.449	0.061	0	0.2	0.3	0	1.77	24/05/00	
1984	0	0	0	0	0.667	0.587	7.78	18.8	57.7	53.2	9.70	1.22	12.5	23.1	1.8	123	04/09/00	
1985	0.135	0.002	0	0.807	0.191	0.216	14.0	102	78.2	40.6	8.97	0.832	20.5	39.2	1.8	197	27/08/00	
1986	0.065	0	0	0	0	1.20	3.78	7.09	60.1	27.9	22.0	-	-	16.7	-	107	17/09/00	
1987	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1988	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1989	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1990	0.073	0.062	0.051	2.21	2.71	0.546	0.259	11.9	11.9	10.7	3.57	0.909	3.7	6.3	1.1	33.1	08/08/00	
1991	0.074	0.060	0.056	0.106	3.19	16.5	23.9	17.5	44.8	26.6	5.93	0.537	11.6	22.1	1.1	67.7	09/09/00	
1992	0.087	0.021	0.002	0.379	0.136	0.035	0.517	7.01	17.5	24.8	9.58	0.674	5.1	8.3	1.8	50.7	05/10/00	
1993	0.092	0.009	0.003	0.072	0.164	0.067	1.96	6.82	58.2	20.6	5.86	0.434	7.9	14.6	1.1	155	04/09/00	
1994	0.015	-	-	-	-	1.41	-	-	-	111	39.2	2.18	-	-	-	161	16/09/00	
1995	0.229	0	0	0.139	10.8	4.74	4.16	30.2	85.2	66	13.1	1.23	18.0	33.5	2.4	140	05/10/00	
1996	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Average	m ³ /s	0.1	0	0	0.6	2.0	3.0	6.5	26.3	49.7	36.4	11.8	1.0	11.5	20.7	2.3	231	27/8/80/0
MCM	0.3	0	0	1.6	5.4	7.8	17.4	70.4	128.8	97.5	30.6	2.7	362.5	327.3	35.2			
mm	0.05	0	0	0.2	0.8	1.2	2.6	10.6	19.5	14.7	4.6	0.4	54.8	49.4	5.3			
m ³ /s/100km ²	0.002	0	0	0.01	0.03	0.05	0.10	0.40	0.75	0.55	0.18	0.02	0.17	0.31	0.03			

Note: "—" means data not available
Source: Director of Water

RIVER STATION BASIN		CATCHMENT AREA ALTITUDE												: N°ZI : DIMBOKRO : BANDAMA						
A.D.	Dry Season	Mean Discharge (m ³ /s)												Maximum Discharge	Minimum Discharge					
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Avg.	Rainy Season Dry	Season Dry	Date	m ³ /s	Date	
1980	1.26	0.478	0.299	0.402	4.57	27.7	7.49	108	216	243	107	24.6	61.7	86.7	26.7	318	10/10	0.013	14/03	
1981	4.71	1.04	1.40	3.46	21.5	19.9	38.3	73.5	60.3	90.3	18.8	2.85	28.0	43.9	5.8	129	03/10	0.383	09/03	
1982	0.371	0.009	1.30	9.88	16.8	24.1	14.8	5.41	13.0	18.2	15.0	2.74	10.1	14.6	3.9	75.8	04/06	0	16/02	
1983	0.230	0.001	0	0.082	3.71	19.8	2.71	0.255	0.055	0.030	0.100	0	2.2	3.8	0.1	68.8	25/06	0	29/03	
1984	0.018	0	0.102	1.30	6.42	7.24	21.2	58.3	104	173	44.9	4.23	35.1	53.1	9.9	251	14/10	0	07/03	
1985	0.561	0.192	0.161	1.03	3.58	7.84	61.6	183	362	367	45.3	9.06	86.8	140.9	11.1	457	02/10	0.045	05/05	
1986	1.56	0.547	1.33	0.930	2.34	5.23	4.30	21.0	52.2	60.9	26.9	6.21	15.3	21.0	7.3	117	30/09	0.160	02/03	
1987	1.01	0.367	0.200	0.334	0.067	6.20	14.9	28.3	191	279	33.8	6.80	46.8	74.3	8.4	352	15/10	0	11/05	
1988	1.45	0.297	0.363	0.899	1.12	4.64	34.0	34.2	178	165	19.1	4.99	37.0	59.7	5.2	265	04/10	0.096	03/03	
1989	1.54	0.161	0.004	2.12	2.57	10.3	85.3	112	281	406	83.1	13.3	83.1	128.5	19.6	465	23/10	0	17/03	
1990	3.04	1.14	0.367	0.145	10.9	7.12	12.9	21.7	38.5	-	14.6	6.31	-	-	5.1	69.0	22/10	0	18/04	
1991	2.29	0.798	0.260	2.66	3.05	25.9	92.4	49.4	88.6	50.0	15.6	3.29	27.9	44.6	4.4	159	13/07	0.128	24/03	
1992	0.759	0.272	0.013	3.01	4.64	11.2	3.03	-	17.1	47.6	31.7	-	-	-	-	74.6	11/10	0	25/03	
1993	1.51	0.480	0.854	3.42	6.55	10.9	3.33	3.36	67.3	70.1	-	-	-	23.6	-	126	16/09	0.016	03/03	
1994	1.64	0.723	0.567	0.624	8.26	15.1	4.41	20.4	90.3	199	-	13.3	-	48.3	-	248	12/10	0.390	24/03	
1995	3.08	1.6	2.41	3.68	25.7	21.8	44.7	60.6	159	214	63.8	11.4	51.0	75.6	16.5	237	05/10	0.620	09/03	
1996	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Average	m ³ /s	1.6	0.5	0.6	2.1	7.6	14.1	27.8	52.0	119.9	158.9	37.1	7.8	35.8	54.6	9.5	465	23/10/89	0	
MCM		4.3	1.2	1.6	5.4	20.4	36.5	74.5	139.3	310.8	425.6	96.2	20.9	1,136.7	1,012.5	124.2				
mm		0.2	0.05	0.1	0.2	0.8	1.5	3.1	5.8	12.9	17.7	4.0	0.9	47.2	42.0	5.2				
m ³ /s/100km ²	0.01	0.002	0.002	0.01	0.03	0.06	0.12	0.22	0.50	0.66	0.15	0.03	0.15	0.23	0.04					

Note: "—" means data not available
Source: Director of Water

RIVER STATION BASIN			CATCHMENT AREA : N'ZI : M'BAHIAKRO : BANDAMA												ALTITUDE : m				
A.D.	Dry Season			Mean Discharge (m ³ /s)												Minimum Discharge			
	Jan	Feb	Mar				Rainy Season						Dry Season			Annual Season			
	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg.	Rainy	Dry	m ³ /s	Date	m ³ /s	Date	m ³ /s	Date	
1980	0.636	0.304	0.082	0.132	6.31	18.7	24.9	132	275	168	98.7	16.4	61.8	89.3	23.2	337	19/09	0.030	03/04
1981	2.21	0.396	1.05	2.49	20.5	21.8	32.1	76.5	68.5	70.8	12.1	1.14	25.8	41.8	3.4	149	28/09	0.104	04/03
1982	0.134	0.035	0.191	11.6	6.25	4.33	6.54	7.46	11.7	18.6	12.8	1.43	6.8	9.5	2.9	59.6	25/04	0	10/03
1983	0.077	0	0	0.226	3.75	5.30	0.994	0.128	0.362	0.486	0.133	0.005	1.0	1.6	0.0	10.6	26/05	0	27/03
1984	0	0	1.25	2.77	4.27	4.07	21.3	52.2	95.3	144	27.8	3.39	29.7	46.3	6.5	189	24/10	0	10/03
1985	0.641	0.100	0.011	0.377	2.82	4.97	66.5	-	-	185	30.0	6.11	-	-	7.4	350	22/08	0	25/03
1986	1.17	0.648	0.957	1.13	1.19	2.81	7.44	15.2	62.5	40.0	23.9	2.55	13.3	18.6	5.8	115	26/09	0.133	05/02
1987	0.424	0.043	0.101	0.121	1.02	6.82	8.67	53.8	238	188	23.6	4.02	43.7	70.9	5.6	328	02/10	0	12/05
1988	0.573	-	0.409	0.182	0.605	0.698	29.7	32.8	203	111	9.08	1.81	-	54.0	-	274	18/09	0.012	26/04
1989	0.229	0.049	2.28	0.585	0.455	10.1	55.5	155	353	-	46.8	6.80	-	-	11.2	397	21/09	0.012	01/03
1990	0.822	0.178	0.076	3.48	16.5	5.29	42.7	31.3	25.4	31.8	8.41	1.88	14.0	22.4	2.3	59.7	31/07	0.032	04/04
1991	0.317	0.151	0.093	0.264	3.19	-	-	41.4	72.9	36.1	7.81	-	-	-	-	263	08/07	0.025	21/03
1992	0.173	0.037	0.016	0.436	1.59	1.39	1.83	7.15	21.2	-	26.2	2.89	-	4.8	5.9	70.6	05/10	0	28/02
1993	0.215	0.012	0.156	1.04	0.594	0.472	0.885	5.79	75.4	53.0	9.44	0.826	12.3	19.6	2.1	151	08/09	0	25/02
1994	0.115	0.004	0.030	2.24	5.51	4.96	1.19	27.2	122	193	77.8	4.56	36.6	50.9	16.5	241	10/10	0	08/03
1995	0.37	0.071	0.055	0.288	8.72	7.82	18.2	54.7	185	183	35.2	3.23	41.4	65.4	7.8	262	08/10	0.025	26/02
1996	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Average	m³/s	0.5	0.1	0.4	1.7	5.2	6.6	21.2	46.2	120.6	101.6	28.1	3.8	28.0	43.3	6.6	397	21/08/9	0
MCM	1.3	0.2	1.1	4.4	13.9	17.1	56.8	123.7	312.6	272.1	72.8	10.2	886.2	800.6	85.6				
mm	0.1	0.01	0.1	0.3	0.9	1.1	3.6	7.9	19.9	17.3	4.6	0.6	56.4	51.0	5.5				
m³/s/100km²	0.003	0.001	0.003	0.01	0.03	0.04	0.14	0.29	0.77	0.65	0.18	0.02	0.18	0.28	0.04				

Note: "-" means data not available
Source: Director of Water

RIVER STATION BASIN		CATCHMENT AREA ALTITUDE : BANDAMA												Maximum Discharge m ³ /s	Minimum Discharge Date					
A.D.	Dry Season	Mean Discharge (m ³ /s)																		
		Rainy Season						Dry	Annual	Season	Dry	Annual	Season							
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg.	Rainy					
1980	1.81	0.673	0.222	0.239	1.94	30.2	7.85	126	267	332	152	33.0	79.4	102.0	11.8	416	12/10	0	01/05	
1981	5.21	1.30	1.07	4.26	21.4	47.9	88.6	69.6	109	23.4	3.27	32.7	42.5	3.3	150	12/10	0.620	22/03		
1982	0.647	0.094	0.151	6.09	38.5	80.1	62.7	15.7	15.1	20.6	18.8	4.32	21.9	28.6	1.7	255	29/06	0	22/02	
1983	0.712	0.111	0.007	0.002	2.82	51.8	12.6	1.13	0.234	0.337	0.038	0.070	5.8	7.7	0.3	162	22/06	0	14/05	
1984	0.010	0	0.159	0.879	5.58	23.4	62.3	98.7	156	280	76.7	10.3	59.5	78.2	3.4	491	18/10	0	17/02	
1985	1.82	0.431	0.430	1.94	8.21	32.5	81.6	242	447	485	77.0	15.1	116.1	152.9	5.8	600	08/10	0.288	27/03	
1986	2.38	0.490	0.810	1.47	1.70	3.46	6.04	20.4	46.6	85.3	35.7	7.76	17.7	22.4	3.5	133	29/09	0.170	19/03	
1987	1.46	0.166	0.098	0.193	0.043	4.55	16.7	25.0	211	370	54.3	10.1	57.8	75.8	3.9	467	17/10	0	18/05	
1988	2.14	0.272	0.070	0.182	2.71	13.9	41.3	52.1	205	210	28.8	7.55	47.0	61.6	3.3	335	02/10	0	21/03	
1989	2.21	0.206	2.02	7.43	9.80	27.2	184	143	343	542	145	20.6	118.9	155.9	7.7	725	27/10	0	12/03	
1990	3.94	1.01	0.389	0.259	10.9	22.5	11.3	18.9	36.1	49.3	24.5	14.4	16.1	19.3	6.5	78.2	19/10	0	12/04	
1991	3.91	0.557	0.475	6.74	25.9	45.0	145	58.9	91.3	57.2	18.2	4.15	38.1	49.9	2.9	338	18/07	0.170	07/03	
1992	0.679	0.134	0.013	4.11	8.72	25.0	5.66	7.97	11.0	57.3	38.1	11.0	14.1	17.5	3.9	85.0	16/10	0	21/03	
1993	1.70	0.222	0.162	1.61	11.0	38.7	38.5	2.83	56.9	91.5	25.9	10.4	23.3	29.7	4.1	132	10/10	0.070	28/02	
1994	1.08	0.133	0.019	1.45	11.4	37.5	9.04	11.1	82.9	252	163	15.1	48.7	63.2	5.4	424	15/10	0	18/03	
1995	2.45	0.303	0.086	5.79	56.4	77.4	108	72.4	206	252	84.5	12.2	73.1	95.8	5.0	315	06/07	0	18/03	
1996	2.28	0.487	0.582	0.764	-	-	149	116	181	210	-	-	-	-	-	-	-	-		
Average	m ³ /s	2.0	0.4	0.4	2.6	13.6	33.1	58.2	64.7	142.7	200.2	60.4	11.2	49.1	64.0	4.5	725	27/10/89	0	
MCM		5.4	1.0	1.1	6.7	36.4	85.8	155.9	173.3	369.9	536.2	156.6	30.0	1,558.3	1,521.9	36.4				
mm		0.2	0.03	0.2	1.0	2.5	4.5	5.0	10.6	15.3	4.5	0.9	44.5	43.5	1.0					
m ³ /100km ²		0.01	0.001	0.001	0.01	0.04	0.09	0.17	0.18	0.41	0.57	0.17	0.03	0.14	0.18	0.01				

Note: "—" means data not available

Source: Director of Water

RIVER : YANI
 STATION : KOUROUKORO
 BASIN : BANDAMA

CATCHMENT AREA : 4,860 Km²
 ALTITUDE : m

A.D.	Mean Discharge (m ³ /s)												Maximum Discharge				Minimum Discharge			
	Dry Season				Rainy Season				Annual		Season		Discharge		Discharge		Discharge		Discharge	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg.	Rainy	Dry		m ³ /s	Date	m ³ /s	Date
1980	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1981	-	-	-	-	9.08	4.59	26.7	60.3	47.0	13.7	3.47	0.705	-	26.9	-	78.7	07/08	-	-	-
1982	0.100	0	0.004	1.19	0.491	2.58	8.63	25.6	44.9	19.2	8.65	1.43	9.4	16.9	1.9	103	30/08	0	09/03	
1983	0.208	0	0	0.091	0.096	0.016	0.044	0.695	9.93	2.59	0.392	0.034	1.2	2.2	0.1	20.1	27/09	0	21/04	
1984	0.006	0	0.770	0.001	1.51	2.17	10.7	33.6	38.0	16.8	2.28	0.283	8.8	17.1	0.6	86.6	08/08	0	07/03	
1985	0.032	0.016	0.014	0.005	0.027	0.042	7.11	79.0	-	-	-	0.699	-	14.4	14.4	-	-	0	11/03	
1986	0.085	0.025	0.034	0.029	0.026	0.053	1.37	26.9	44.8	23.3	6.37	0.961	8.7	16.1	1.3	78.7	24/09	0.009	27/02	
1987	0.236	0.042	-	0.053	-	0.545	24.5	-	43.3	8.04	1.96	-	-	-	-	-	-	-	-	-
1988	0.418	-	-	0.163	0.582	0.755	8.73	66.5	-	42.3	7.77	2.04	-	-	-	199	08/09	0.065	24/04	
1989	0.599	0.227	-	-	0.872	10.4	89.8	-	36.6	10.5	1.66	-	-	-	-	-	-	-	-	-
1990	0.395	0.462	0.071	0.236	1.72	5.24	2.98	22.9	27.3	27.7	8.55	-	-	14.6	-	42.2	08/08	0.013	08/04	
1991	1.13	0.606	0.263	-	-	-	-	-	-	29.5	-	-	-	-	-	-	-	0.056	18/03	
1992	-	-	0.422	0.551	0.914	5.22	30.9	27.8	35.8	10.4	1.89	-	16.9	-	78.8	09/08	-	-		
1993	0.647	0.275	1.47	0.569	0.560	1.35	6.82	17.8	38.3	36.2	11.8	2.50	9.9	16.8	2.9	55.4	11/10	0.065	29/04	
1994	0.359	0.219	0.392	0.556	0.706	0.969	-	-	94.6	98.0	53.8	4.38	-	-	10.0	169	15/09	0.056	26/02	
1995	1.09	0.292	-	0.106	0.848	0.928	3.73	33.9	79	48.6	11.4	3.1	-	27.8	-	117	22/09	-	-	
1996	0.811	0.537	0.321	0.438	0.168	5.57	8.14	29	142.0	49.5	9.95	4.17	20.9	39.1	2.7	-	-	-	-	
Average	0.4	0.2	0.3	0.3	1.2	1.9	7.2	38.7	54.0	34.9	11.0	1.8	12.7	23.0	2.3	199	8/9/88	0		
MCM	1.1	0.5	0.8	0.8	3.2	4.9	19.3	103.7	140.0	93.5	28.5	4.8	401.1	364.6	36.5					
mm	0.2	0.1	0.2	0.2	0.7	1.0	4.0	21.3	28.8	19.2	5.9	1.0	82.5	75.0	7.5					
m ³ /100km ²	0.01	0.004	0.01	0.01	0.02	0.04	0.15	0.80	1.11	0.72	0.23	0.04	0.26	0.47	0.05					

Note: "—" means data not available

Source: Director of Water

RIVER			CATCHMENT AREA												: 32,400 Km ²			
STATION			ALTITUDE												: m			
BASIN			BASIN															
A.D.			Mean Discharge (m ³ /s)															
			Rainy Season															
			Dry Season		Jan		Feb		Mar		Apr		May		Jun		Jul	
1980	26.7	18.7	22.0	83.1	54.9	191.0	356.0	768.0	307.9	133.0	15.6	168.2	254.7	47.1	-	-	-	
1981	17.9	61.1	47.9	65.5	46.6	77.5	88.9	306.2	303.7	148.7	38.8	20.9	102.0	148.2	37.3	-	-	
1982	9.9	33.7	57.4	57.4	33.3	59.7	31.2	65.2	162.4	92.5	59.7	0.0	55.2	71.7	32.1	-	-	
1983	0	18.1	20.4	23.8	46.9	9.4	5.0	6.4	36.0	14.9	4.6	7.0	16.0	20.3	10.0	-	-	
1984	0	0	31.2	16.2	23.1	24.3	37.3	113.5	212.8	158.9	29.2	0.0	53.9	83.7	12.1	-	-	
1985	16.1	0	20.4	29.2	15.2	86.6	128.0	664.6	794.4	224.9	35.0	21.3	169.6	277.6	18.6	-	-	
1986	0	35.0	21.4	21.5	20.8	12.1	20.2	95.2	333.2	136.7	49.8	5.7	62.6	91.4	22.4	-	-	
1987	9.6	8.0	8.5	14.5	33.2	46.4	16.0	118.8	438.7	231.2	36.1	2.6	80.3	128.4	13.0	-	-	
1988	0.3	1.5	27.5	32.5	12.1	22.4	77.4	270.8	555.0	302.0	26.2	0	110.6	181.7	11.1	-	-	
1989	7.8	0	29.0	37.2	11.9	57.9	93.7	367.0	707.9	270.1	26.7	18.8	135.7	220.8	16.5	-	-	
1990	12.7	11.9	6.9	43.3	16.2	32.3	26.7	175.5	144.0	116.9	57.5	18.5	55.2	79.3	21.5	-	-	
1991	18.7	24.9	22.3	48.3	55.5	47.2	101.5	224.1	408.0	164.8	41.5	27.6	98.7	149.9	27.0	-	-	
1992	20.4	35.8	2.7	22.1	0.0	22.9	39.7	133.1	221.2	149.1	52.2	8.2	59.0	84.0	23.9	-	-	
1993	0	6.7	46.0	4.5	19.4	11.8	19.4	20.6	154.7	155.9	17.7	0	38.1	55.2	14.1	-	-	
1994	0	0	0	0	0	11.2	30.4	184.5	440.7	593.6	243.0	8.4	126.0	180.1	50.3	-	-	
1995	0	0	19.3	28.1	27.9	21.4	64.0	229.4	523.6	327.7	56.6	14.8	109.4	174.6	18.1	-	-	
1996	0	0	1.8	12.3	10.5	37.8	56.1	129.3	511.4	351.8	25.5	0	94.7	158.5	5.5	-	-	
Average	m3/s	8.2	15.0	23.8	28.1	26.8	37.4	60.4	203.5	395.0	220.4	54.9	10.0	90.3	138.8	22.4		
MCM	MCM	22.0	36.3	63.7	72.8	71.8	96.9	161.8	545.1	1,023.8	590.3	142.3	26.8	2,853.6	2,562.5	291.1		
mm	mm	0.7	1.1	2.0	2.2	3.0	5.0	16.8	31.6	18.2	4.4	0.8	88.1	79.1	9.0			
m ³ /s/100km ²	m ³ /s/100km ²	0.03	0.05	0.07	0.09	0.08	0.12	0.19	0.63	1.22	0.68	0.17	0.03	0.28	0.43	0.07		

Note: "-" means data not available

Source: Ministry of Energy