

4 METEOROLOGY AND HYDROLOGY

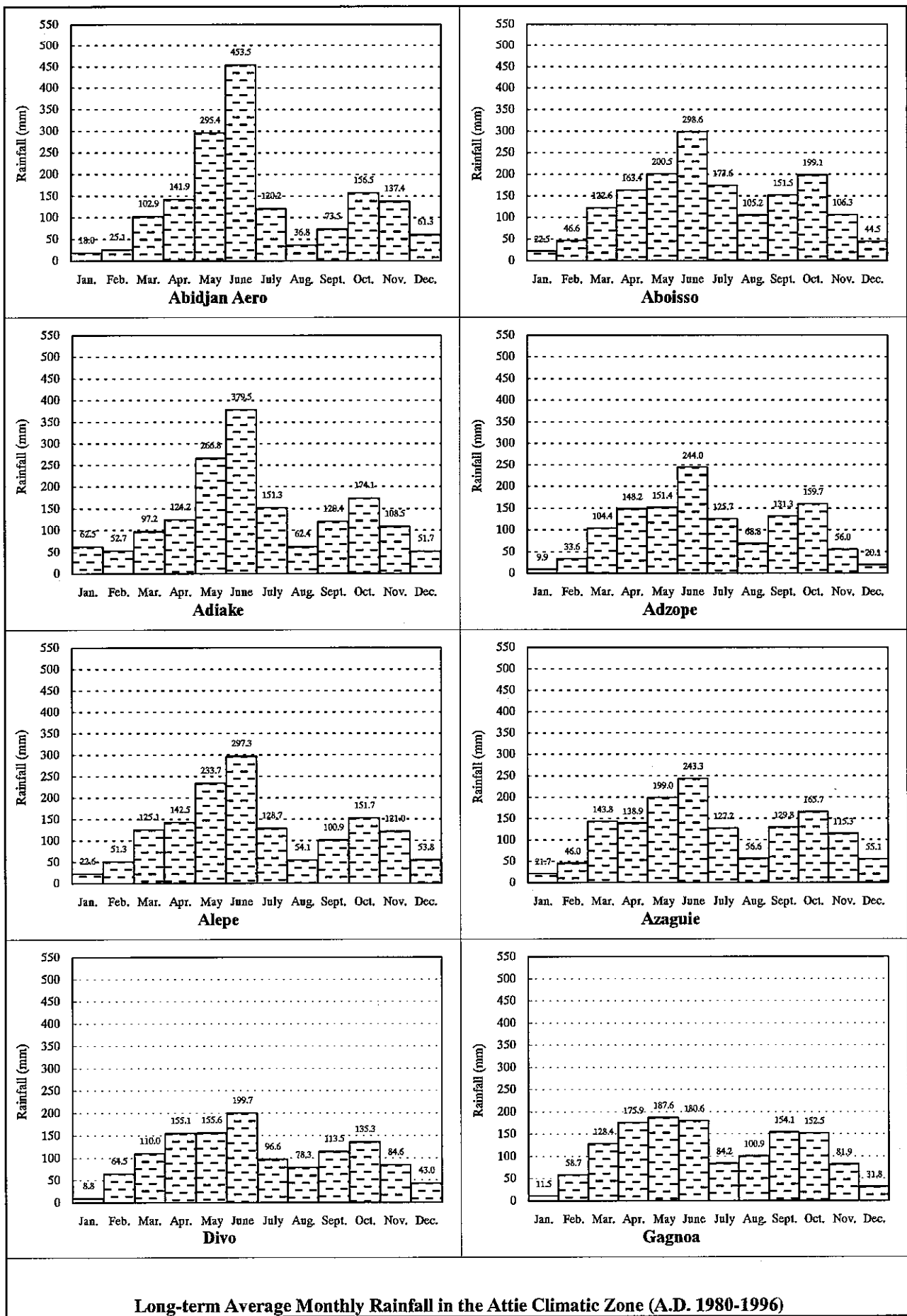
4 METEOROLOGY AND HYDROLOGY

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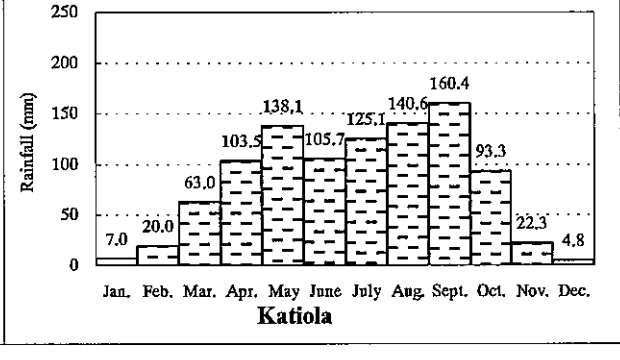
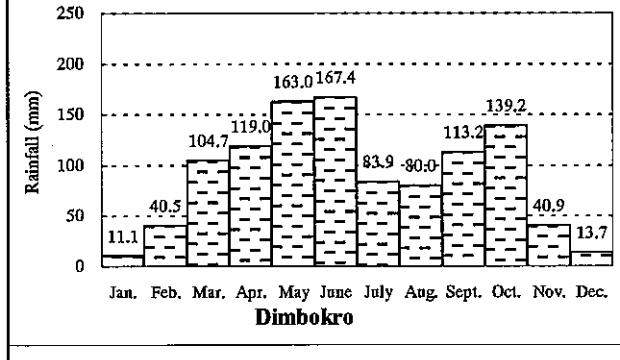
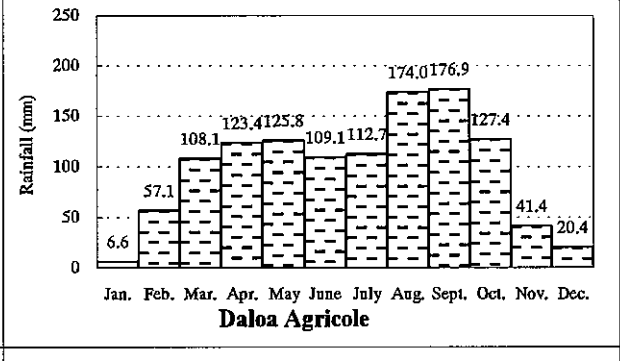
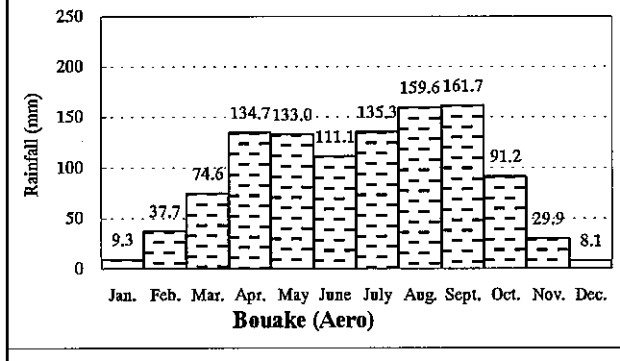
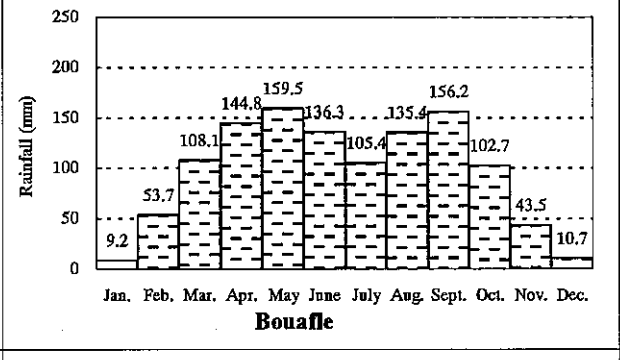
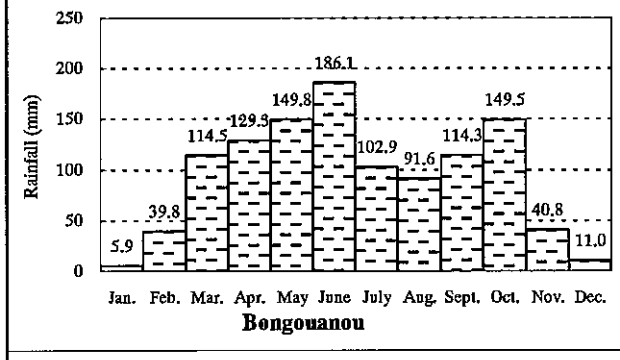
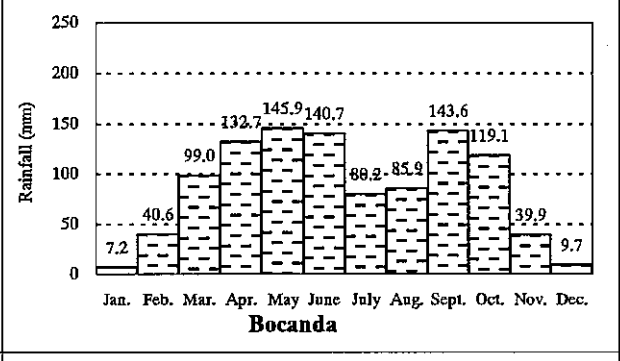
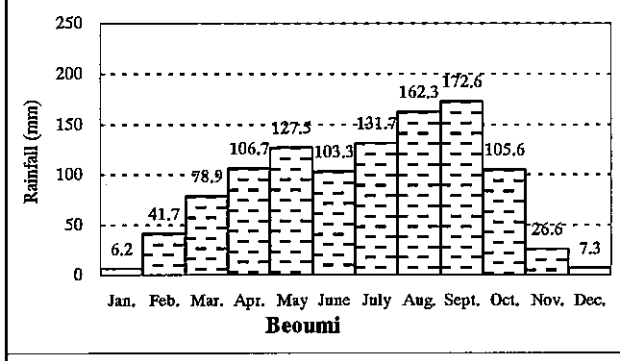
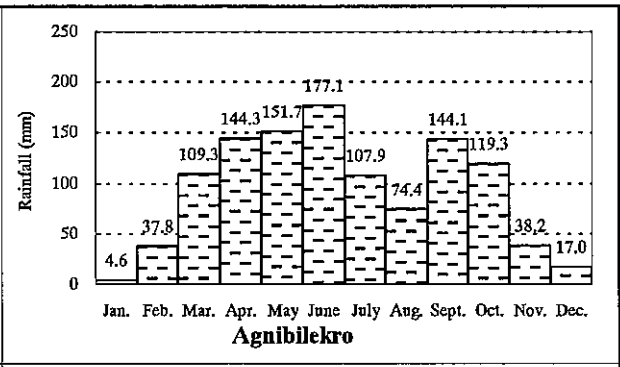
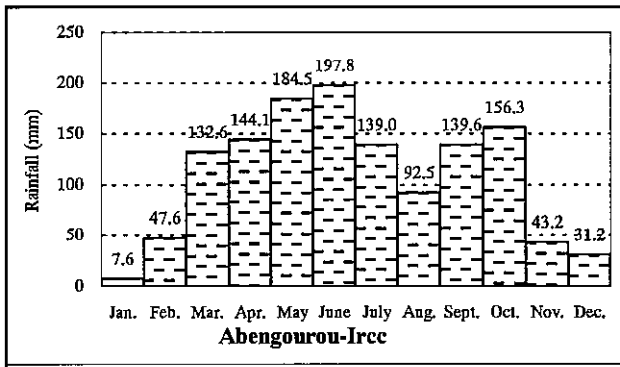
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CHAPTER 1 RAINFALL

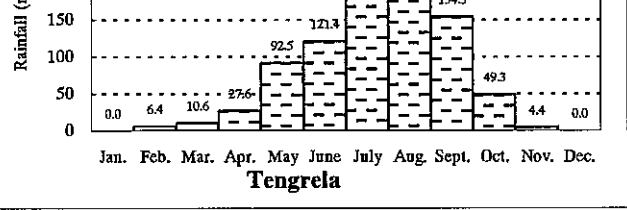
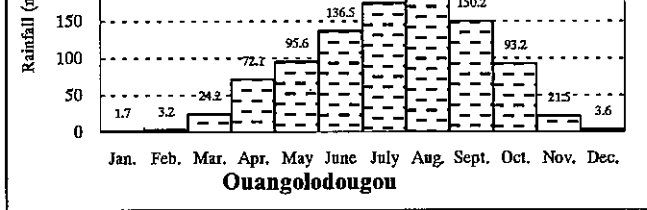
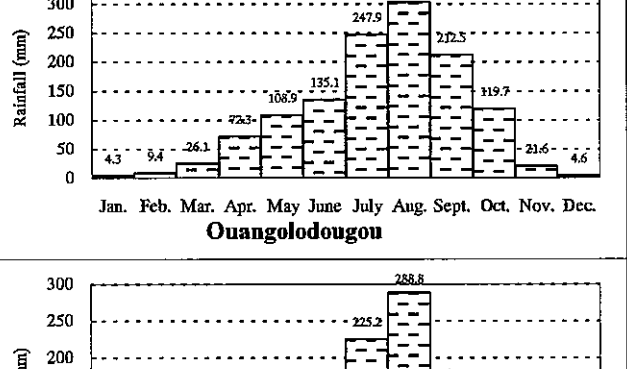
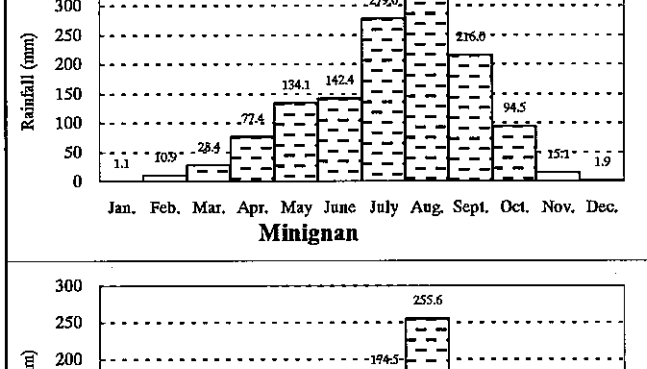
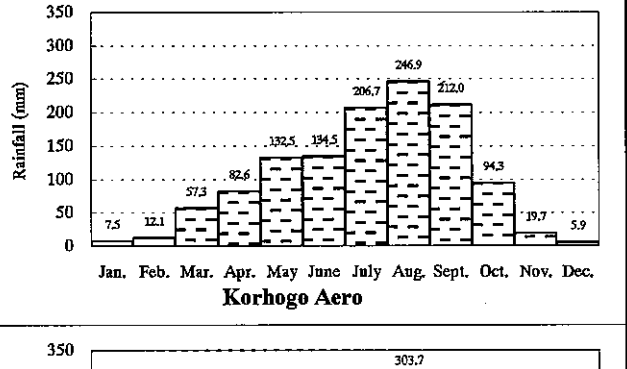
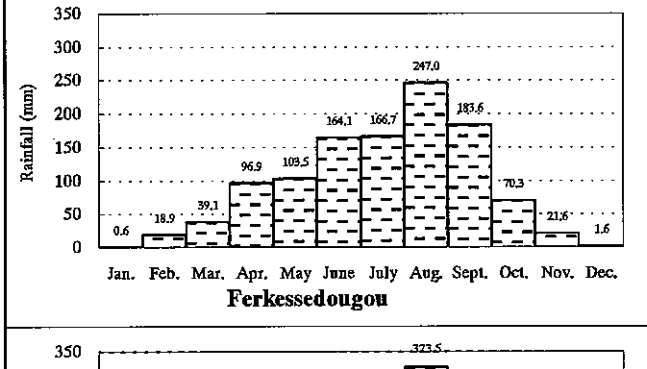
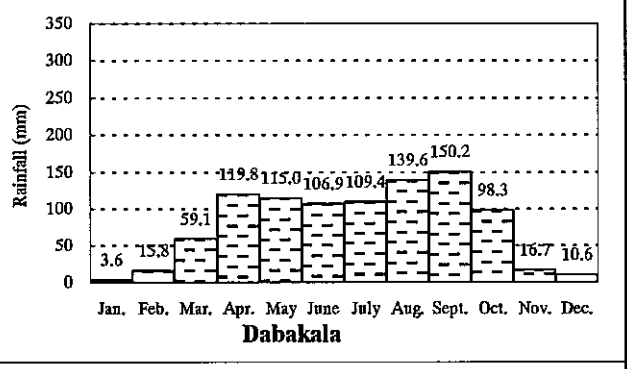
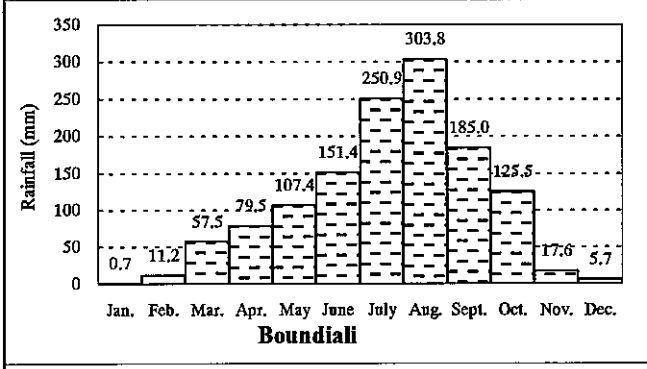
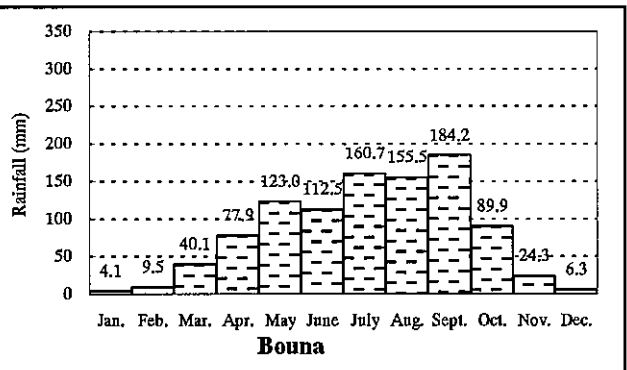
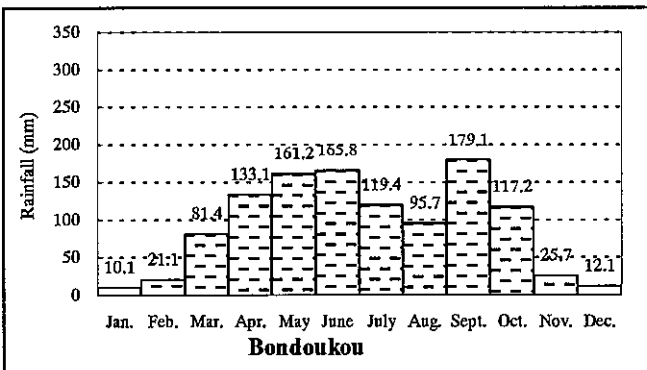
1.1 Figures



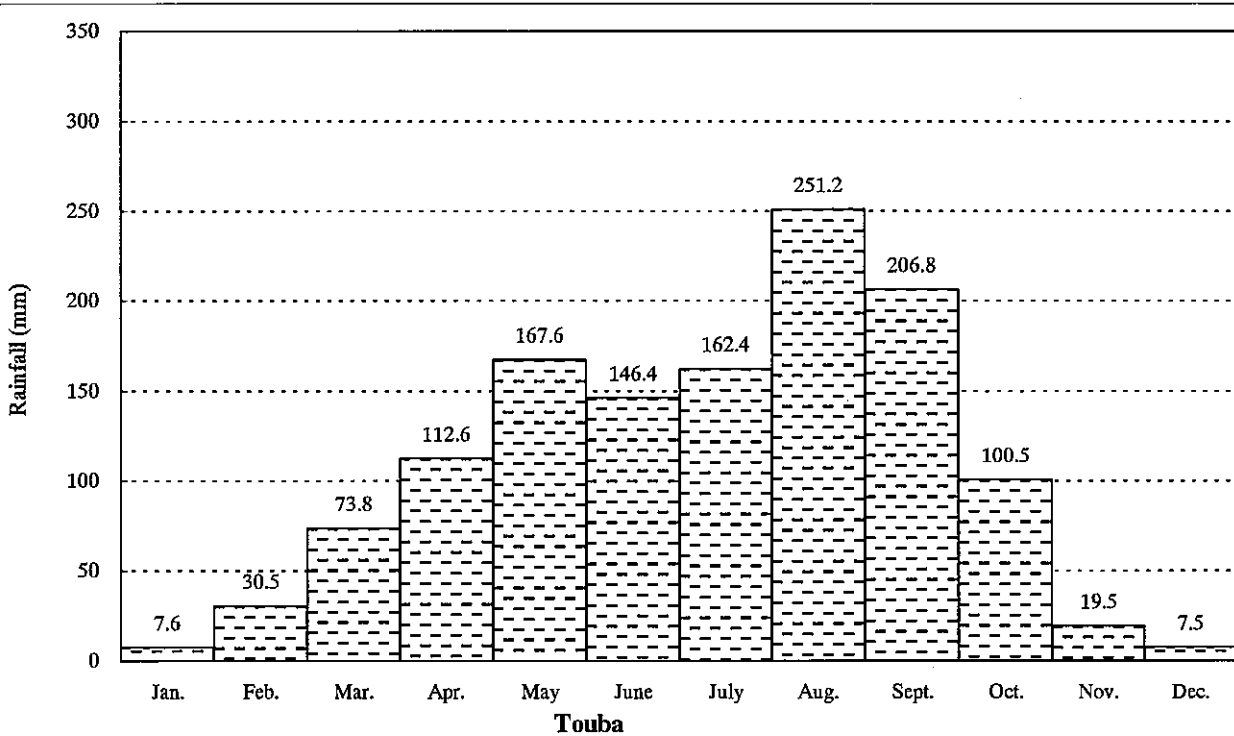
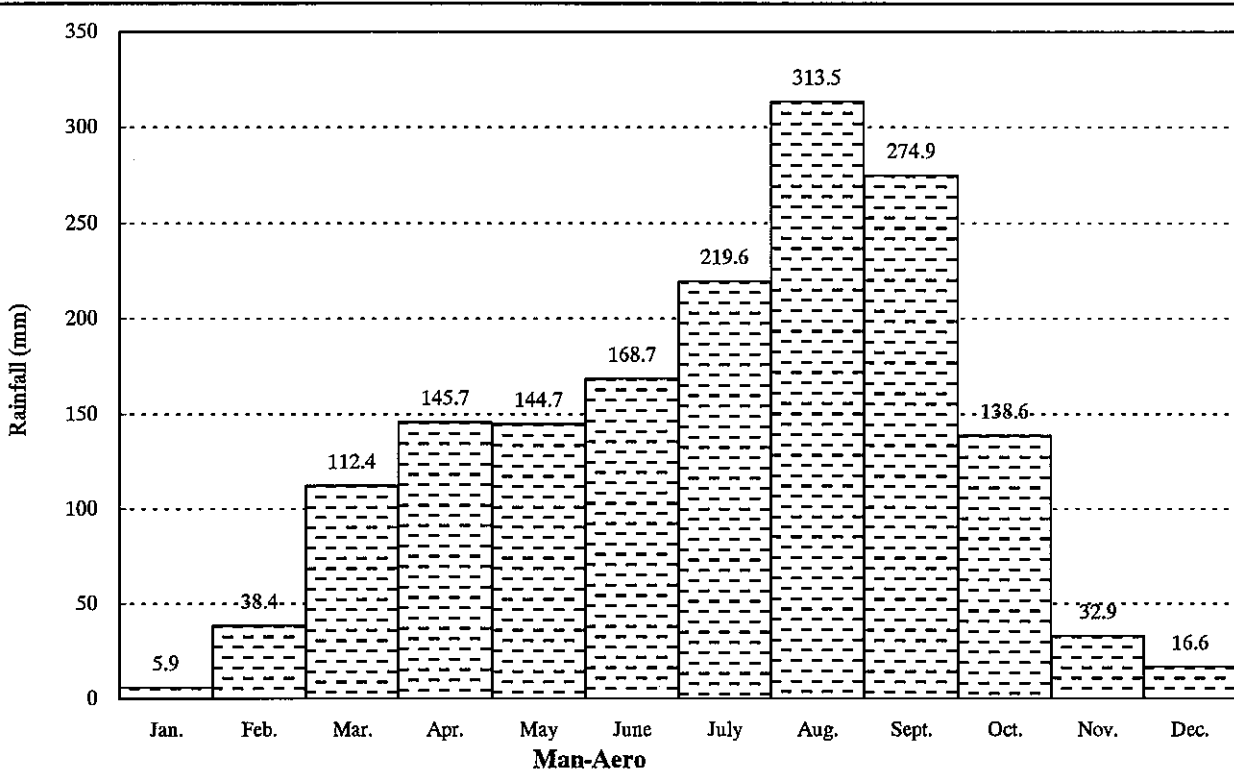
Long-term Average Monthly Rainfall in the Attie Climatic Zone (A.D. 1980-1996)



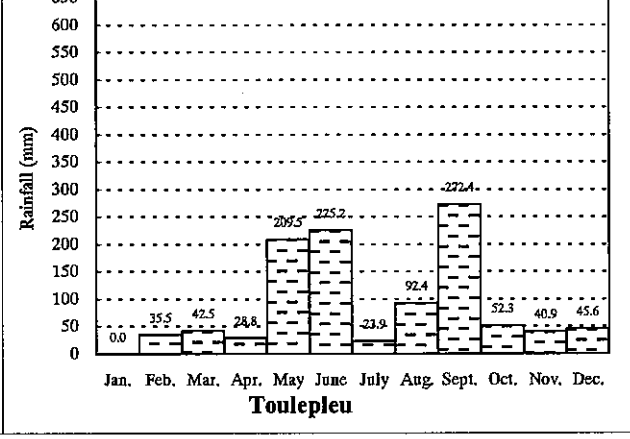
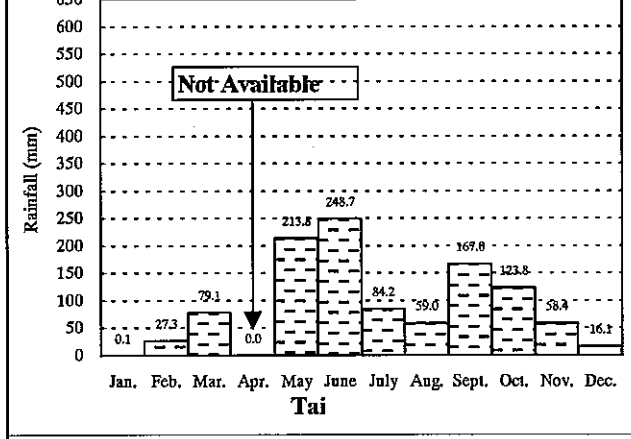
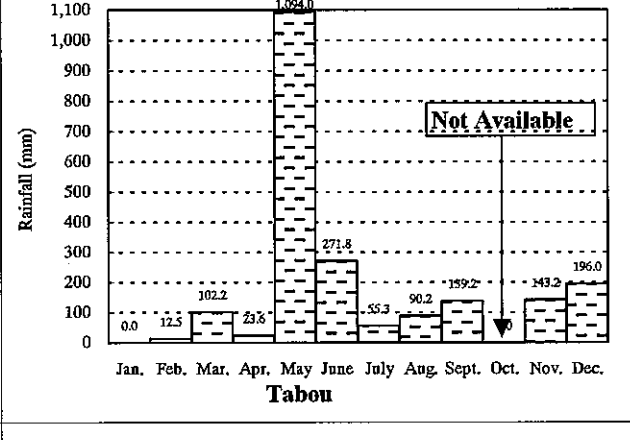
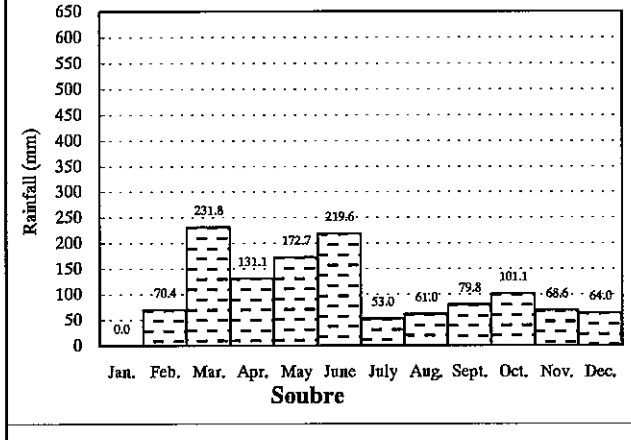
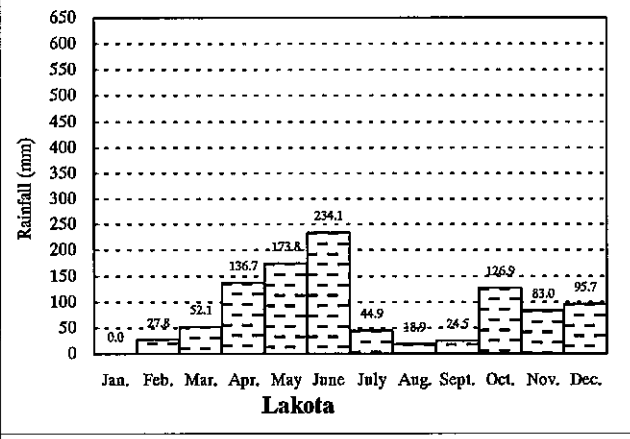
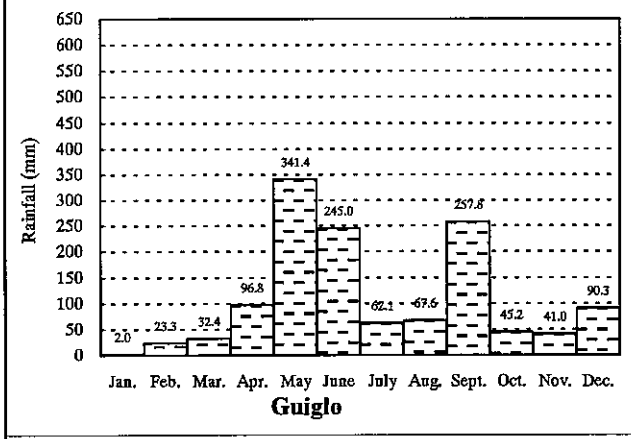
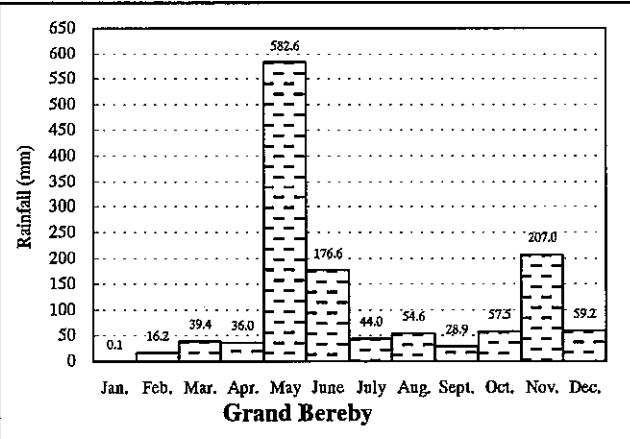
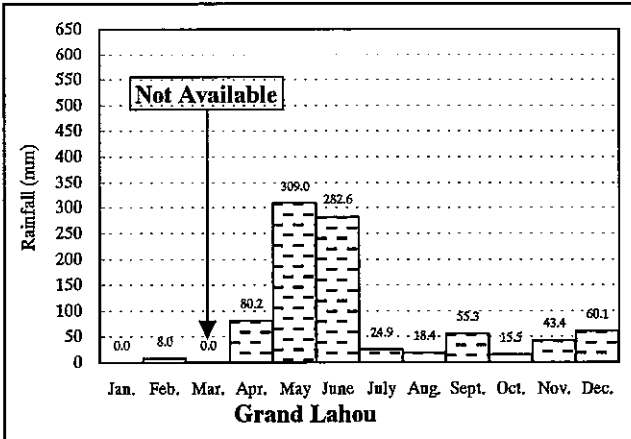
Long-term Average Monthly Rainfall in the Baoule Climatic Zone (A.D. 1980-1996)



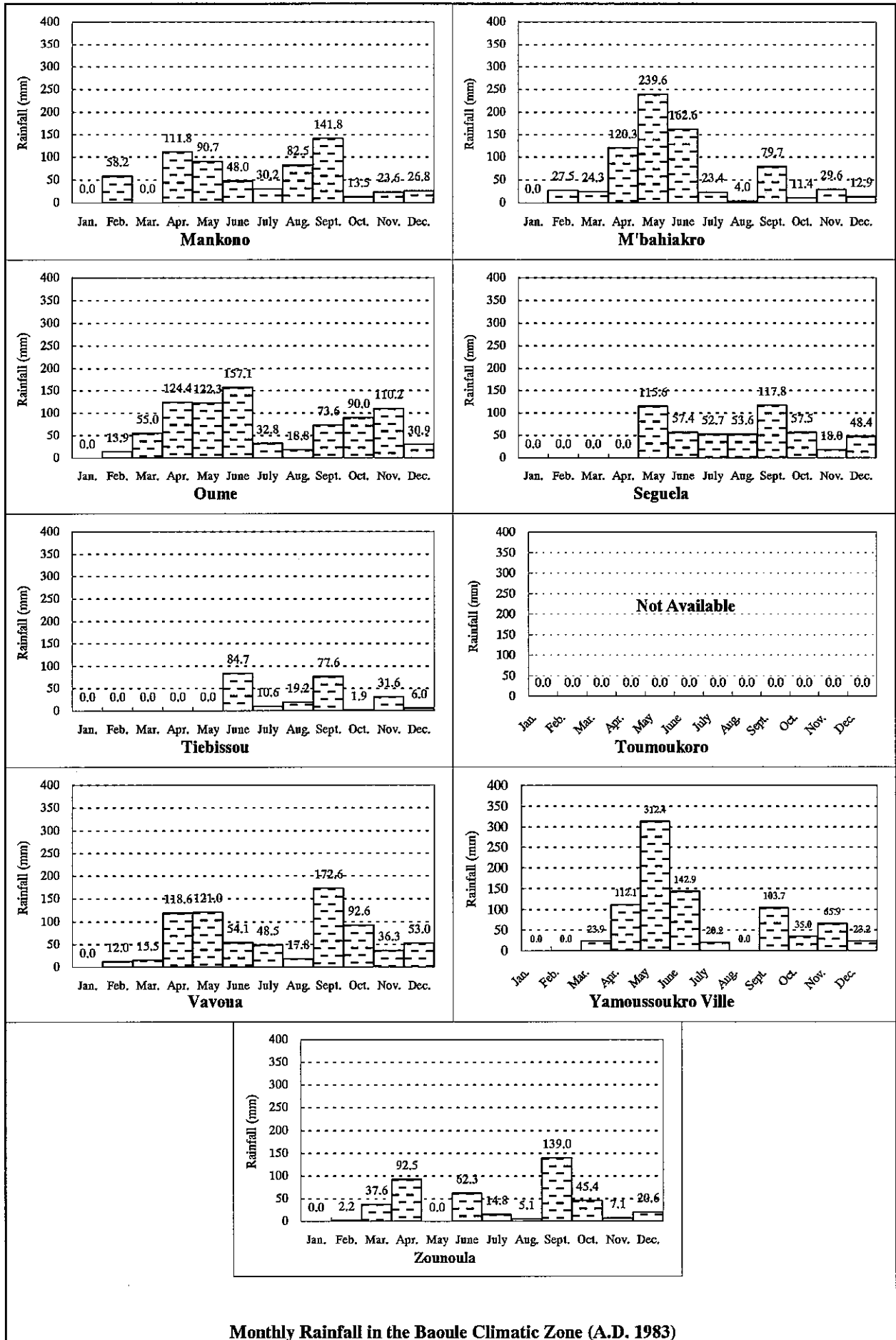
Long-term Average Monthly Rainfall in the Sudanese Climatic Zone (A.D. 1980-1996)



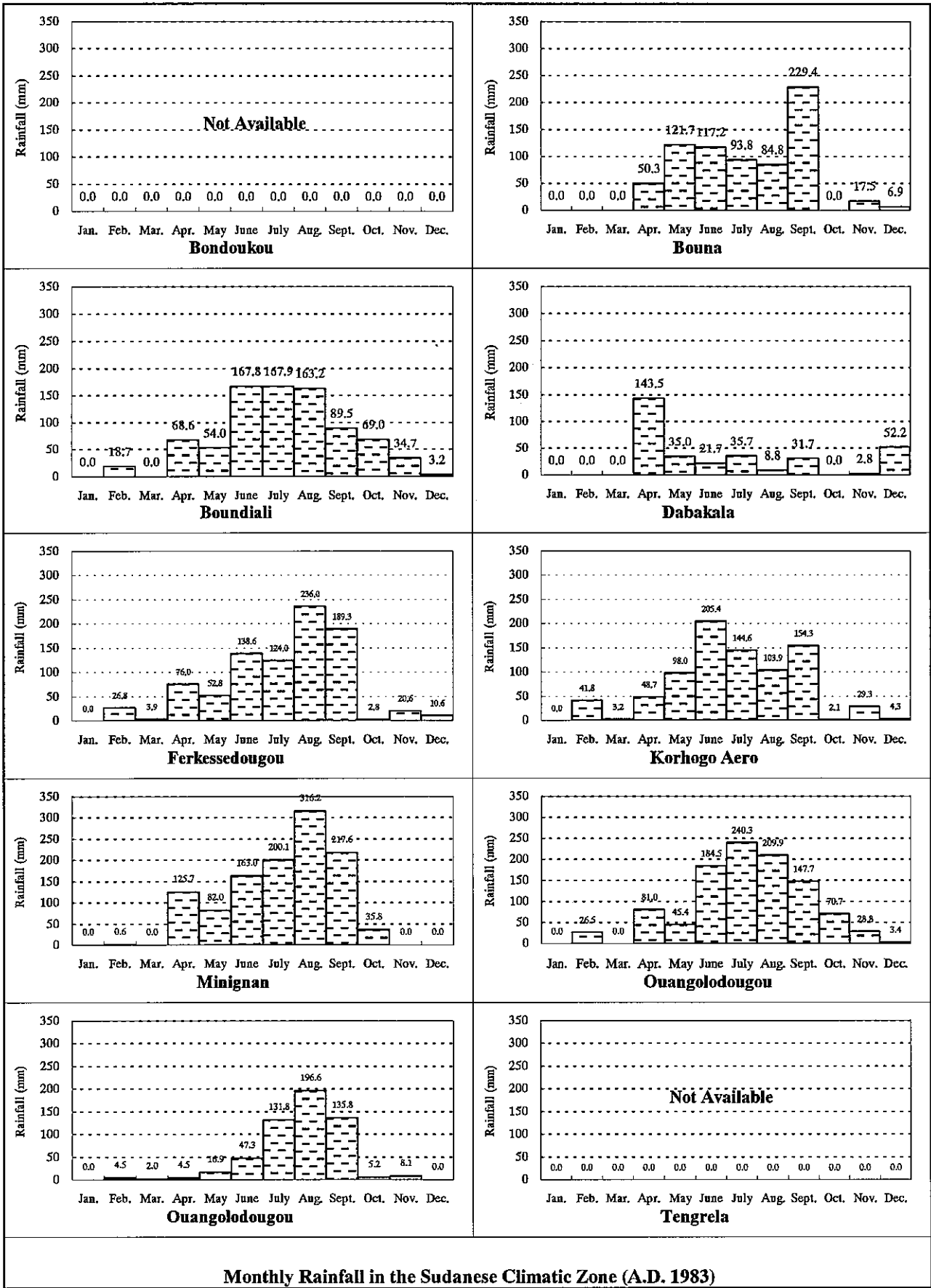
Long-term Average Monthly Rainfall in the Mountainous Climatic Zone (A.D. 1980-1996)



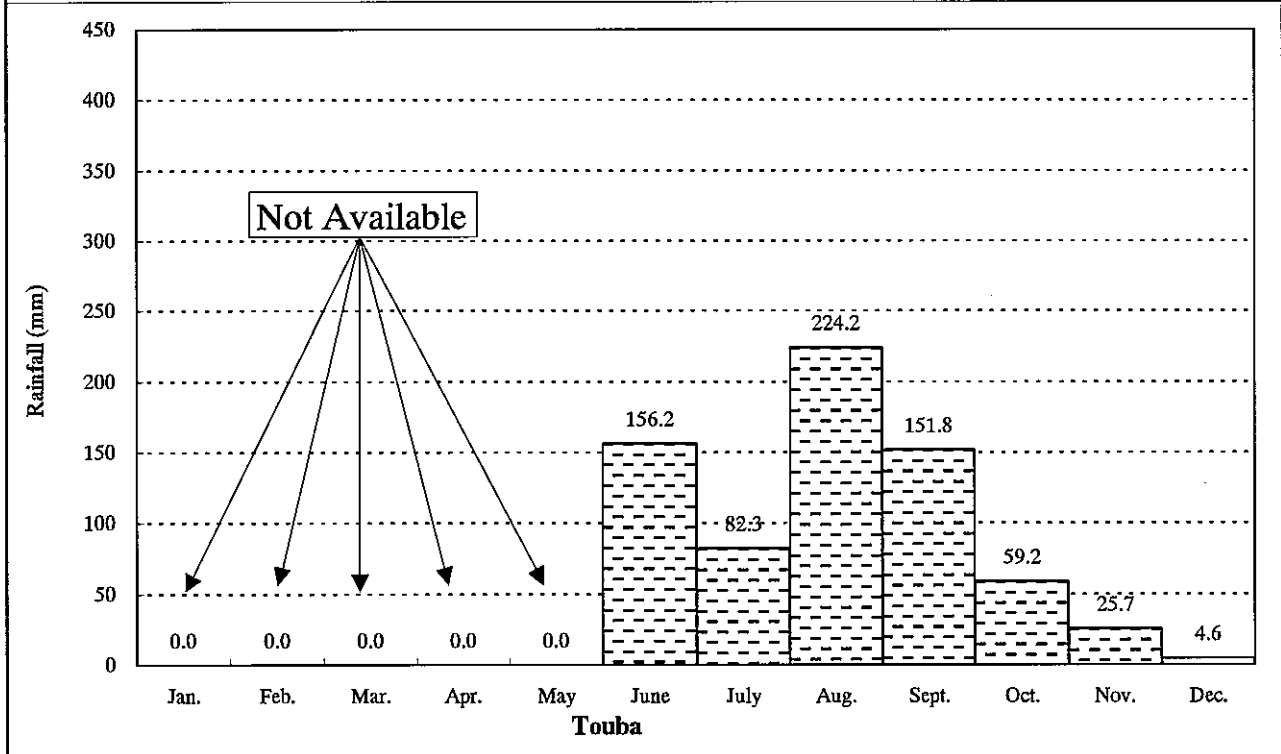
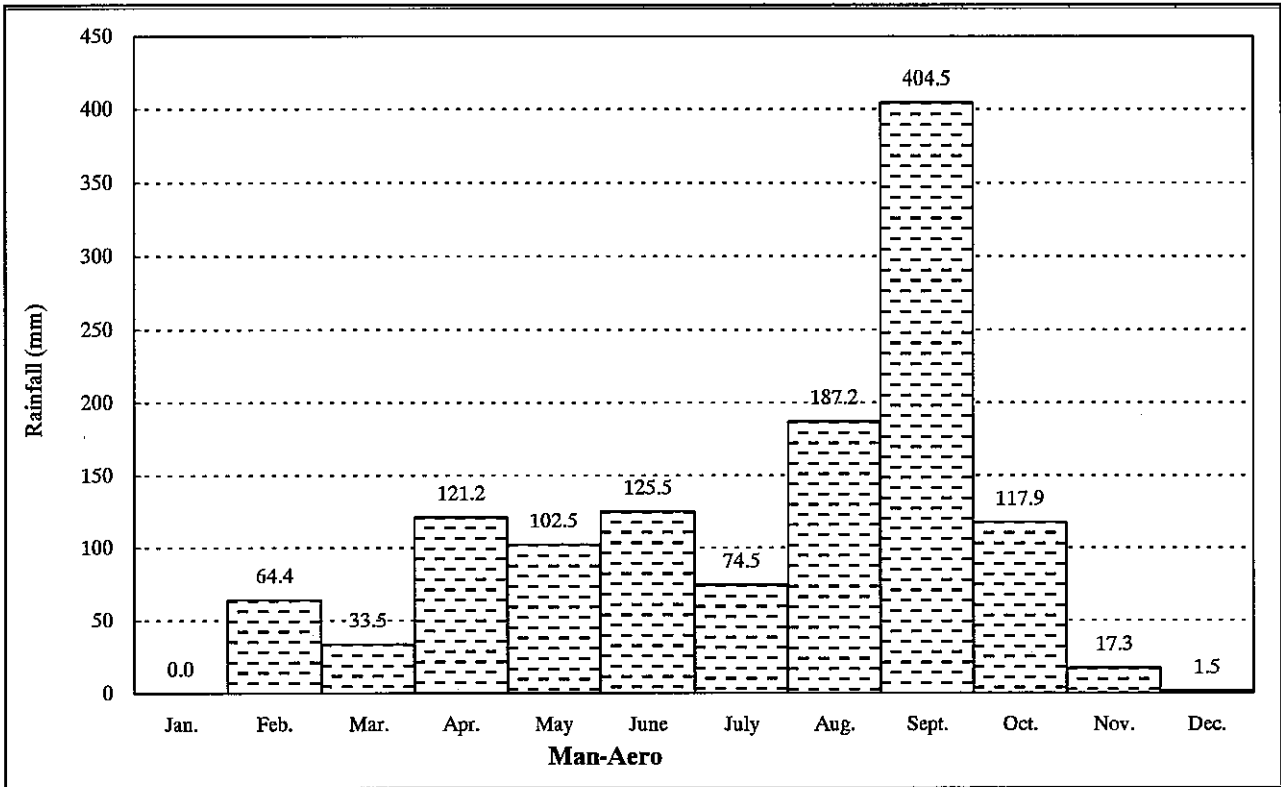
Monthly Rainfall in the Attie Climatic Zone (A.D. 1983)



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



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



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

CHAPTER 2 RUNOFF

2.1 Annual Runoff

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

BASIN RIVER	SASSANDRA										SASSANDRA				BOA				GUEBOK		WBK
	GUSSABO	SEMEN	SOROTONA	SOURRE (LMNG)	GAOULO PONT	DABALA	N'GOLODOUGOU	PIEBLY (LMNG)	ZAKUE BARRAGE	BAO	BAFING	DEBO	DAKPADOU	RTE GAGNOA-ISTIA	BOUNTOU	NIAMOTOU (LMNG)	NIAMOTOU (LMNG)	VIALADOUOU	DUEKOU	WANROU (LMNG)	
1953	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1954	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1955	-	356.7	-	801.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1956	-	175.6	-	348.4	385.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1957	-	364.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1958	111.9	-	-	343.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1959	189.1	-	-	552.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1960	188.6	223.2	-	697.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1961	136.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1962	223.4	246.7	-	480.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1963	201.7	309.6	206.9	702.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1964	-	312.6	236.2	544.3	614.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1965	242.8	286.2	199.6	511.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1966	244.1	246.9	127.5	686.9	770.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1967	202.4	259.3	-	386.5	449.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1968	291.1	294.8	-	737.6	859.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1969	226.2	270.8	-	449.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1970	140.0	194.9	-	354.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1971	139.1	179.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1972	-	199.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1973	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1974	143.3	-	100.5	299.7	346.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1975	160.8	-	97.8	286.9	319.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1976	123.3	188.2	-	-	332.4	102.9	50.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1977	-	187.9	-	-	473.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1978	156.4	204.9	-	321.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1979	296.6	266.6	-	556.5	614.1	141.4	71.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1980	-	193.8	109.9	227.6	264.8	103.4	43.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1981	-	208.6	146.6	-	-	137.9	58.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	211.1	136.4	387.2	435.8	132.6	71.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1983	-	96.7	64.6	292.1	372.2	-	36.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1984	-	141.1	84.2	96.1	99.2	85.4	39.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1985	-	213.7	131.1	-	547.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1986	-	124.1	76.6	-	343.0	79.9	36.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1987	140.1	68.5	269.0	-	364.1	-	35.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1988	187.4	186.0	313.8	-	431.2	-	38.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1989	171.4	99.7	333.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1990	-	-	69.7	242.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1991	-	130.9	80.1	233.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1992	161.5	-	226.8	-	-	-	46.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1993	173.4	83.4	-	-	406.9	96.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1994	237.0	157.0	353.0	-	516.0	151.0	57.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1995	214.0	123.0	465.0	-	-	132.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

BASIN RIVER	LOBO				NZO				GUERI		KO		TIEMBA				SIEN			DROU (DROUE)			
	NIBEHIBE (NIBE/GBEU) (LMNG)	NIBEHIBE (NIBE/GBEU) (LMNG)	LOBOVILLE	GUGLO	KAHIN	KAHIN (LMNG)	KAHIN ZOBA (LMNG)	DIABOU	GAGNOA	LOGOALE	MAN	DIOLATIEDOUGOU	IILLE	IILLE (LMNG)	KANHASSO	KANHASSO (LMNG)	NAFANA-SIENSO (LMNG)	NAFANA-SIENSO (LMNG)	MASSADOUGOU	DENT DE MAN (LMNG)	DENT DE MAN (LMNG)		
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1995																							

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

BASIN RIVER STATION	BANDAMA										MARAHOUÉ				MARAHOUÉ-KOHOUA		MARAHOUÉ										
	BANDAMA (BLANC)	BANDAMA (BLANC)	BANDAMA (BLANC)	BANDAMA (BLANC)	BANDAMA (BLANC)	BANDAMA (BLANC)	BANDAMA (BLANC)	BANDAMA (BLANC)	BANDAMA (BLANC)	BANDAMA (BLANC)	BANDAMA (BLANC)	RTE KORHOGA MBENGUE (LAKING)	RTE KORHOGA MBENGUE (LAKING)	TORTIVA AMONT	TAVARA AMONT	TRASSALE AMONT	RTE BODOML-SSGUELA	BOUATLE (LAKING)	BOUATLE (LAKING)	FAKANDOUGOU (KEBB)	FAKANDOUGOU (LAKING)	MANKONO (LAKING)	MANKONO (LAKING)	ZUENOUA	ZUENOUA		
1951																											
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1994																											
1995																											

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

BASIN RIVER STATION	AGREBY				KAVI KAVI	MANSO MANSO	MANSO MANSO	DOPPO DOPPO	ME ME	ME ME	MANSAN MANSAN	NOUNOUROU NOUNOUROU	SAN FIEDRO SAN FIEDRO		NERO NERO	TABROU TABROU		BIA BIA		BOURO BOURO		
	AGBOVILLE BARAGABE (LARGO)	AGBOVILLE BARAGABE (LARGO)	NIERY (BAMBOUS)	NYPODI									OTPOLIGUE N'DESSE	AGBOVILLE BARAGABE (LARGO)		STATION BARAGABE (LARGO)	STATION BARAGABE (LARGO)	YAKA YAKA	YAKA YAKA		YAKA YAKA	YAKA YAKA
1949																						
1950																						
1951																						
1952																						
1953																						
1954																						
1955																						
1956	2.3																					
1957	5.9																					
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1961	10.7																					
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1964	9.2																					
1965	8.2																					
1966	15.9																					
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1973																						
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1978																						
1979	7.7																					
1980	3.4																					
1981	0.8																					
1982	4.0																					
1983	1.9																					
1984	7.6																					
1985	4.6																					
1986	0.8																					
1987	7.5																					
1988	3.3																					
1989	12.7																					
1990	3.4																					
1991	3.8																					
1992	2.2																					
1993	6.2																					
1994	9.4																					
1995																						

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

BASIN RIVER	CAVALLY									
	CAVALLY						HANA	N'CE	NEKA	NIOULO (ODRENISROU)
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	GBANLOU	KOULDA	GOUGOULO
	VONKORO	KOKPINGUE	POUON	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 Comoe 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	Oct	Nov	Dec		
Comoe	Comoe	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 (LMNG)	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
		Aniassue Pont	66,500	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 (LMNG)	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
		Kafolo	21,200	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
	M'Basso	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)	2,155	0.00	0.00	0.00	0.25	0.44	0.57	1.35	6.61	13.53	11.70	1.18	0.57	3.02	'84-'87	
Kolonkoko	Nassian	1,157	0.00	0.00	0.00	0.00	0.02	0.07	1.50	6.95	11.88	6.94	0.95	0.09	2.37	'77-'95	
	Nassian (LMNG)	1,157	0.00	0.00	0.00	0.00	0.04	0.12	1.16	7.21	8.75	3.07	0.41	0.02	1.73	'77-'87	
Manzan	Botakokore	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	
Bayakokore	Yebouakro	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	
	Bouroukro	1,384	0.16	0.05	0.04	0.34	0.56	1.06	2.27	1.45	3.72	5.31	0.97	0.37	1.36	'83-'95	
Nenguere	ESSIKRO	1,257	0.03	0.00	0.00	0.02	0.38	1.22	2.23	1.76	5.77	7.70	1.68	0.23	1.75	'83-'95	
Bimbe	Yaobo	118	0.00	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	Rivers 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		
Agnéby	Agnéby	Aghoville	4,600	0.35	0.20	0.54	1.94	5.71	18.26	21.98	6.52	9.88	17.49	6.72	1.34	7.59	55-68, 70, 79-95
		Aghoville 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
		Aghoville Barrage (LMING)		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	18.31	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	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
Kavi	Kavi	Offoliguité	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	Manso	Guessiguité	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
		Guessignie (LMING)		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
Dodo	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
Me	Me	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 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
Niountourou	Niountourou	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
		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
Dogau	Dogau	Dahiri	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
		Zakpaberi	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
San Pedro	San Pedro	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
		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
Nero	Nero	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
		Rte Grand Bereby	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
Tabou	Tabou	Rte Grand Bereby (LMING)		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
		Otodio	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
Bia	Bia	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
		Yaka (LMING)		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
Boubon	Boubon	Aboisso	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
Boubon	Boubon	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
		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
Boubon	Boubon	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 (m ³ /s)	Period	
				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	657.14	439.16	547.52	1,051.81	1,016.21	524.06	254.89	446.63	'70-'89, '92-'95	
		Flamplieu	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	'55-'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	'63-'95	
	Hana	Hana	Toulepleu (Shihitibi)	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
			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
			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
			Nekaounie	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
			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 (m ³ /s)	Period
				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
	Ghanlou	Kokpingue	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	Pouon	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

Basin Name River Name	Covally				The Suarada				Suarada				The Lobe
	The Civity		The Suarada		The Suarada		The Temba		The MSB		The Budge		
Station Name C.A.	TOULEPUEU	TAL	TATE	DABALA	WERLY	SOURCE	GAOULOU PONT	INDILATREDOUCOU	MSIN	BADALA (BAFRINDALA)	DIARPADOU	LOROVILLE	
Period (Years)	2,470 km ² 326 m	13,130 km ² 149 m	28,800 km ² 14 m	16,600 km ²	32,600 km ²	57,670 km ² 105 m	70,500 km ² 10 m	2,790 km ²	4,310 km ²	5,930 km ² 410 m	6,625 km ²	17,035 km ²	
2	222.8	223.8	787.0	1,916.9	1,093.3	1,487.0	1,846.3	128.7	330.4	252.9	168.6	144.1	
5	269.6	266.2	1,014.3	2,473.1	1,597.8	2,574.3	2,708.3	176.7	446.2	329.2	234.5	225.3	
10	294.3	299.2	1,153.6	2,975.0	2,193.6	3,275.0	3,230.7	201.3	523.0	378.2	273.8	270.6	
50	336.5	381.6	1,437.3	2,619.5	2,724.6	4,887.2	4,233.8	240.1	692.9	483.1	349.5	346.5	
100	359.9	420.9	1,549.9	2,621.5	3,068.8	5,519.7	4,807.1	251.9	765.9	527.0	377.8	370.5	
200	363.7	463.0	1,659.9	2,622.1	3,427.6	6,125.4	4,952.1	261.7	839.8	570.9	404.3	390.9	
1000	389.3	560.0	1,907.3	2,631.6	4,253.2	7,470.8	5,683.2	280.4	1,013.3	670.8	460.7	430.4	

Basin Name River Name	The Baouma				NI				The Macabebe				The Bou
	The Baouma		NI		The Macabebe		ZUENOULA		BOUALE		KADYOHIA		
Station Name C.A.	TORTAYA	RADA	TIASSALE	RTB KATIOIA DABAKALA	MBANHARO	DIMONRO	ZIENGA (NIZANON)	MANKONO	ZUENOULA	BOUALE	RTB BOKON	KADYOHIA	
Period (Years)	14,500 km ² 135 m	24,030 km ² 135 m	61,830 km ² 13 m	6,630 km ²	15,700 km ²	24,100 km ²	35,000 km ²	6,700 km ² 247 m	17,314 km ²	19,800 km ² 187 m	3,710 km ²	4,860 km ²	
2	113.3	314.9	508.1	1,005.4	247.2	253.1	340.5	166.2	275.8	491.9	51.5	86.2	
5	183.9	457.6	808.9	1,695.5	408.8	375.2	518.1	254.1	418.2	705.8	86.9	137.2	
10	225.3	526.8	969.8	2,179.1	482.9	465.0	623.6	367.2	477.7	787.9	111.7	167.7	
50	298.8	626.1	1,222.5	3,269.5	574.1	642.9	820.0	349.6	545.2	872.4	168.0	223.6	
100	323.4	652.9	1,296.8	3,732.0	594.1	709.9	890.1	362.8	558.7	897.6	192.0	243.2	
200	344.7	673.6	1,356.7	4,192.5	607.8	772.3	933.5	372.2	567.5	897.2	215.9	260.6	
1000	387.8	723.9	1,486.5	5,225.6	637.8	906.7	1,088.0	403.6	598.4	930.0	268.7	297.5	

Basin Name River Name	Comos				Baou-Niger			
	The Comos		The Baou		The Kankabou		The Baou	
Station Name C.A.	KAKOMONRO	AKABADINO	ABRABINO	DEBETE	KOUTO	DAPARA		
Period (Years)	43,700 km ²	57,000 km ²	74,330 km ²	5,530 km ²	4,740 km ²	8,950 km ²		
2	359.7	611.8	942.6	547.7	84.2	134.7		
5	597.5	1,063.3	1,623.7	884.2	54.8	105.5		
10	750.2	1,376.2	2,047.2	1,090.8	75.2	123.6		
50	1,055.4	2,058.8	2,839.8	1,483.5	126.8	154.9		
100	1,171.0	2,339.9	3,119.3	1,625.2	150.9	167.5		
200	1,278.7	2,612.7	3,367.8	1,754.0	179.9	193.5		
1000	1,512.5	3,226.5	3,893.1	2,029.9	207.8	231.1		

Basin Name River Name	Baou				Velle-Nelle			
	The Baou		The Niouloum		The Me		The Velle-Nelle	
Station Name C.A.	GRAND LAHOU	DABERI	AGBOVILLE	AKOUDZIN	BANOUAN AVAL	YONKORO		
Period (Years)	3,411 km ²	1,791 km ²	4,680 km ²	1,274 km ²	6,800 km ²	2,100 km ²		
2	214.9	72.1	202.8	174.8	188.4	600.3		
5	279.9	83.9	237.4	200.9	233.9	820.2		
10	321.0	90.4	286.7	220.6	250.5	965.5		
50	407.3	102.4	337.4	224.7	267.9	1,228.5		
100	442.7	106.7	354.7	227.9	271.2	1,327.2		
200	477.8	111.7	370.0	230.3	273.2	1,419.8		
1000	556.6	118.7	401.2	236.5	280.4	1,618.5		

Note: C.A. means catchment area. Figures are to be shown below the catchment area used otherwise of general units.

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 (Bagoé 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

TIASSALE (Bandama River)	
Return Period (Year)	Probable Value
2	1,989
5	1,002
10	704
15	600
20	546
25	513
30	490
40	460
50	441
60	428
80	411
100	401
200	378
300	369
400	365
500	362

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

IRADOUGOU (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	Tiemba 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 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	Bouafle
20	"	Ba-10	N'Zi à Katiola	Rtekatio
21	"	Ba-11	N'Zi à M'Bahiakro	Mbahia
22	"	Ba-12	N'Zi à Dimbokro	Dimbokro
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 Pedro à San Pedro	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

Summary of Gauging Stations

No.			Name of River	Station
1	Cavally	Ca-1	Cavally à Taté	Tate
2	"	Ca-2	Cavally à Toulépleu	Toulep
3	Sassandra	Sa-1	Tiemba 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 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	Bouafle
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 Pedro à San Pedro	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

Table with columns for months (Jan, Feb, Mar, Apr, May, June, July, Aug, Sept, Oct, Nov, Dec) and rows for various river basins including Cavally, Tiamba, Sassandra, Badiola, and Pelehi. Each cell contains runoff data for different years and a 'Mean' row.

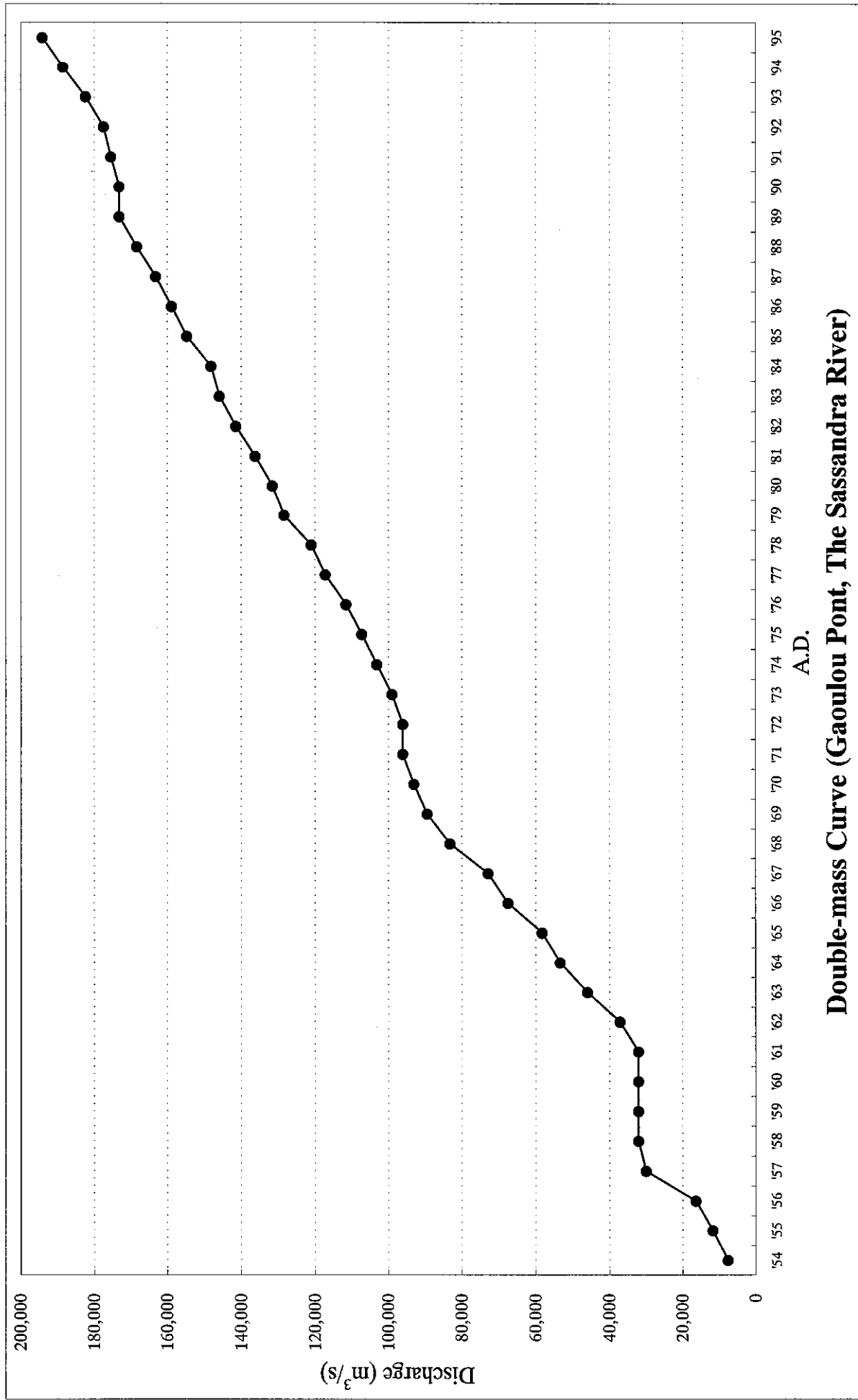
	Jan.		Feb.		Mar.		Apr.		May		June		July		Aug.		Sept.		Oct.		Nov.		Dec.		Annual		
	m ³ /sec	MCM	m ³ /sec	MCM	m ³ /sec	MCM	m ³ /sec	MCM	m ³ /sec	MCM	m ³ /sec	MCM	m ³ /sec	MCM	m ³ /sec	MCM	m ³ /sec	MCM	m ³ /sec	MCM	m ³ /sec	MCM	m ³ /sec	MCM	m ³ /sec	MCM	
(No.30) Station : Kouto Av. Bagnoe River in Niger Basin CA=4,740km ²	7.66	20.52	3.54	8.50	1.52	4.07	0.73	1.88	0.74	1.97	2.33	6.03	62.43	23.31	62.43	110.55	296.10	225.30	583.98	155.83	417.38	49.08	127.22	16.99	45.50	49.96	1,575.63
Mean	60~69																										
Mean	70~79																										
Mean	80~89																										
Mean	90~97																										
Mean	80~97																										
(No.31) Station : Debet, Kankalaha River in Niger Basin CA=5,550km ²	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	26.26	81.68	218.77	146.25	379.07	81.01	216.97	27.17	70.43	5.77	15.44	29.95	944.38	
Mean	75~79																										
Mean	80~89																										
Mean	90~97																										
Mean	80~97																										
(No.32) Station : Papara, Bagnoe River in Niger Basin CA=8,950km ²	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	34.77	60.48	161.98	144.33	374.09	101.15	270.92	44.30	114.83	11.57	30.98	32.41	1,022.23	
Mean	76~79																										
Mean	80~89																										
Mean	90~97																										
Mean	80~97																										
(No.33) Station : Yankoro, Volta Noire River in Valt Noire Basin CA=11,500km ²	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	40.95	98.18	262.95	182.23	472.33	96.86	259.42	22.41	58.09	6.79	18.19	36.14	1,139.59	
Mean	76~79																										
Mean	80~89																										
Mean	90~97																										
Mean	80~97																										
(No.34) Station : Wenulo, Dodo River in San Pedro Basin CA=640km ²	5.18	13.86	3.18	7.69	2.16	5.78	3.74	9.71	14.69	39.36	41.82	108.40	117.16	313.81	306.37	820.57	467.44	1,211.62	190.27	509.61	81.67	211.68	21.39	57.28	104.94	3,309.36	
Mean	70~79																										
Mean	80~89																										
Mean	90~97																										
Mean	80~97																										
(No.35) Station : Res. Grand Béréby, Néro River in San Pedro Basin CA=1,210km ²	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	35.52	10.96	29.36	16.98	44.00	22.53	60.33	13.58	35.39	6.57	17.61	13.27	418.42	
Mean	70~79																										
Mean	80~89																										
Mean	90~97																										
Mean	80~97																										

	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.	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	
(No.42) Station: Angakro, Baya River	CA = 6.800km ²																										
Mean	0.00	0.00	0.00	0.00	0.02	0.05	0.01	0.02	0.01	0.02	0.05	0.12	0.36	0.95	0.73	1.95	7.67	19.87	4.30	11.53	0.03	0.07	0.00	0.01	1.10	34.00	
83~89	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	0.00	0.01	0.00	0.00	0.00	0.00	0.02	0.06	0.04	0.09	0.02	0.06	0.31	0.82	0.02	0.04	0.27	0.70	0.86	2.29	0.07	0.19	0.01	0.01	0.14	4.28	
90~97	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	4	4	4	4	4	5	5	5	5	5	5
Mean	0.00	0.00	0.00	0.00	0.01	0.03	0.02	0.04	0.02	0.06	0.04	0.10	0.34	0.90	0.40	1.08	4.71	12.20	3.05	8.17	0.04	0.12	0.00	0.01	0.72	22.71	
83~97	11	11	11	11	11	11	11	11	11	11	11	12	12	12	11	11	10	10	10	11	11	12	12	12	12	12	12
(No.43) Station: Bhanon, Bia River in Bia 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	75.13	194.72	97.18	260.27	70.20	181.96	20.06	53.72	55.55	1,751.87	
62~69	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	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	48.45	125.57	74.84	200.46	42.55	110.29	6.72	17.99	31.03	978.57	
70~79	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	7	7	7	7	7	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	30.98	80.30	42.44	113.66	16.27	42.16	3.18	8.51	19.38	611.19	
80~89	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	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	14.86	38.52	34.91	93.50	20.46	53.02	5.54	14.83	18.73	590.79	
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
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	23.39	60.64	38.67	103.58	18.24	47.27	4.15	11.11	19.07	601.35	
80~97	14	14	15	15	15	15	14	14	17	17	16	16	16	16	18	18	17	17	16	16	16	17	17	17	17	17	17
(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	18.60	48.21	27.38	73.34	12.46	32.29	3.18	8.51	11.29	355.98	
82~89	7	7	7	7	7	7	7	7	6	6	6	6	6	6	6	6	6	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	7.49	19.40	12.25	32.81	8.51	22.07	3.61	9.67	9.34	294.55	
90~97	7	7	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	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	13.04	33.80	19.82	53.08	10.49	27.18	3.41	9.13	10.33	325.87	
82~97	14	14	13	13	14	14	12	12	12	12	12	12	12	12	11	11	12	12	12	12	14	14	14	14	15	15	15

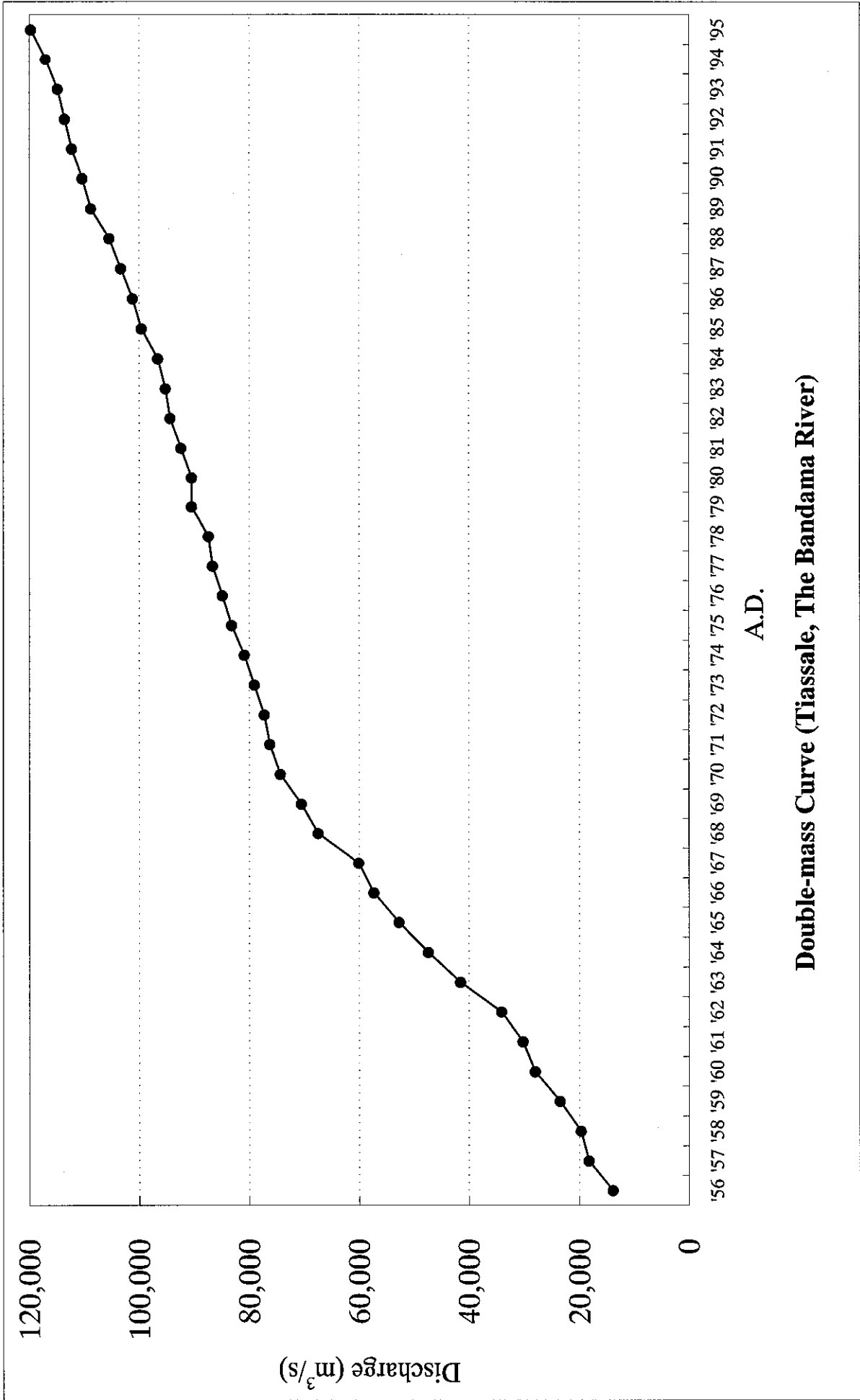
Note
MCM in the month of 1,3,5,7,10 and 12; Mean Discharge x 2.6784 (86,400secx31days/1,000,000)
MCM in the month of 4,6,9 and 11; Mean Discharge x 2.592 (86,400secx30days/1,000,000)
MCM in the month of 2; Mean Discharge x 2.4192 (86,400secx28days/1,000,000)
Total mean MCM; Sum of mean discharge from 1 to 12 month
Total mean m³/sec; Mean MCM/31.536 (86,400x365/1,000,000)

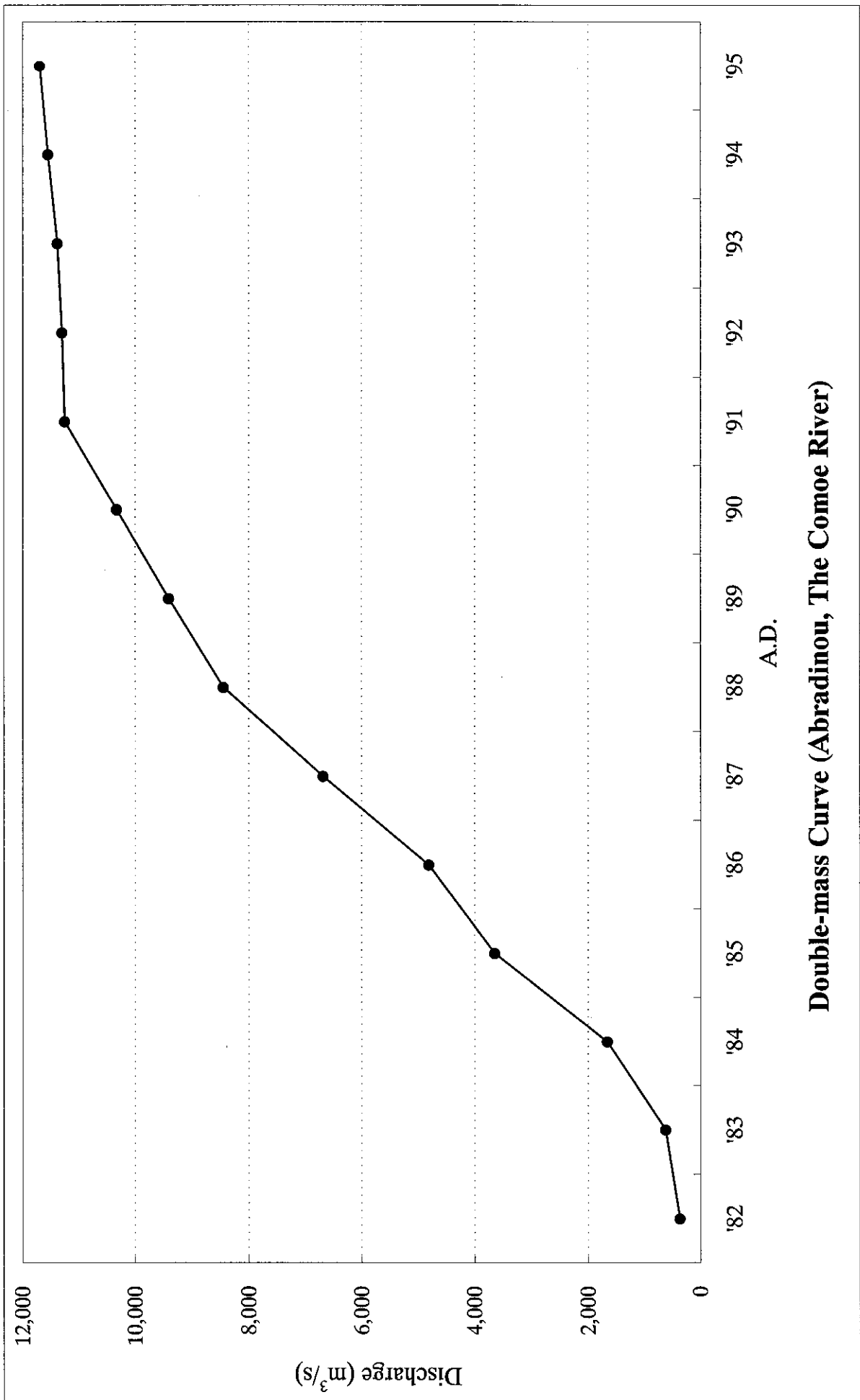
Long-term Monthly Average Discharges of Existing Gauging Stations in the Sassandra River Basin

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	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			
				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			
				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		
				57,670	289.4	324.7	291.2	284.6	259.9	253.0	226.1	242.6	333.0	503.0	385.9	315.5	298.1	'80-'96		
				Soubre (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		
				Gacoulou Pont	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	16,800	17.8	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 Bnyo	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-Bagbe	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	566	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	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	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	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					
Boa		Rte Gagnoa-Issia	2,870	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			
				10,100	7.0	4.1	1.8	1.5	-	6.5	120.6	126.3	111.0	25.8	12.1	-	'73-'77			
				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		
Guenton	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					
Gben		Duekoue	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			
				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		
				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	10.0	'80-'96		
Lobo		Nibehebe (Nibeigbeu)	7,280	0.1	0.1	0.1	0.7	0.4	1.0	1.1	1.9	9.9	36.4	27.4	5.0	10.8	'83-'88, '93			
				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		
				7,100	19.5	6.3	7.2	15.1	16.4	39.9	59.9	106.9	206.0	149.2	65.6	36.4	61.5	'55-'80		
N'Zo		Guiglo	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			
				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			
				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		Diabou	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			
				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		
				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		
Ko		Logouale	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			
				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		
				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		
Stien		Lille (LMNG)	168	0.1	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			
				Kanhasso	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		
				Kanhasso (LMNG)	0.0	0.0	0.0	0.0	0.2	0.1	0.8	2.4	4.1	1.5	0.4	0.2	0.8	'83-'88, '92-'93		
Tiamba		Dioulatiedougou	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	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.2	2.7	9.2	13.0	4.4	1.8	0.5	2.8	'80-'85, '92
				Nafana-Sienso (LMNG)	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	
Drou (Droue)		Massadougou	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	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		
				Dent de Man (LMNG)	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	
Buyo Dam		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			

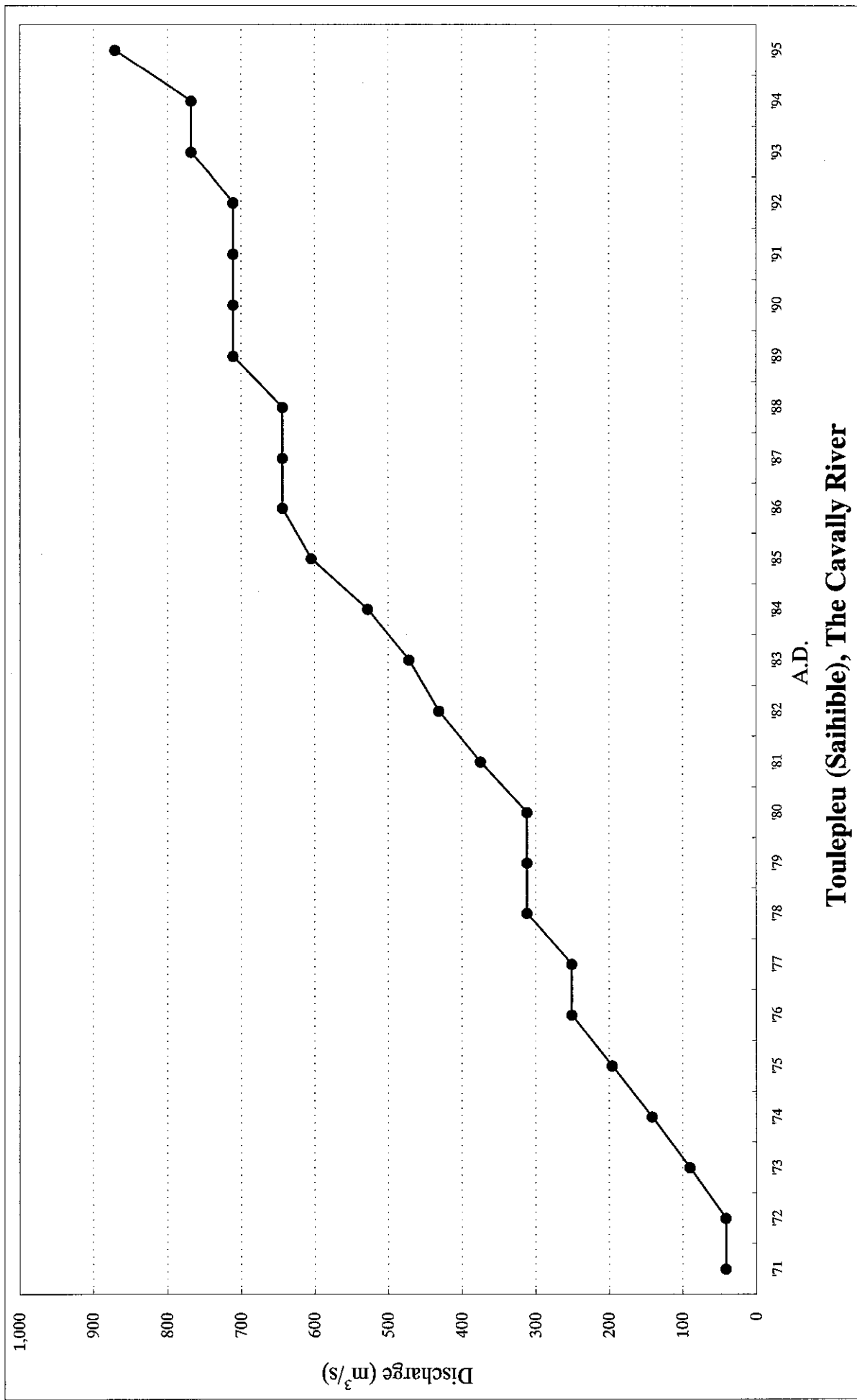


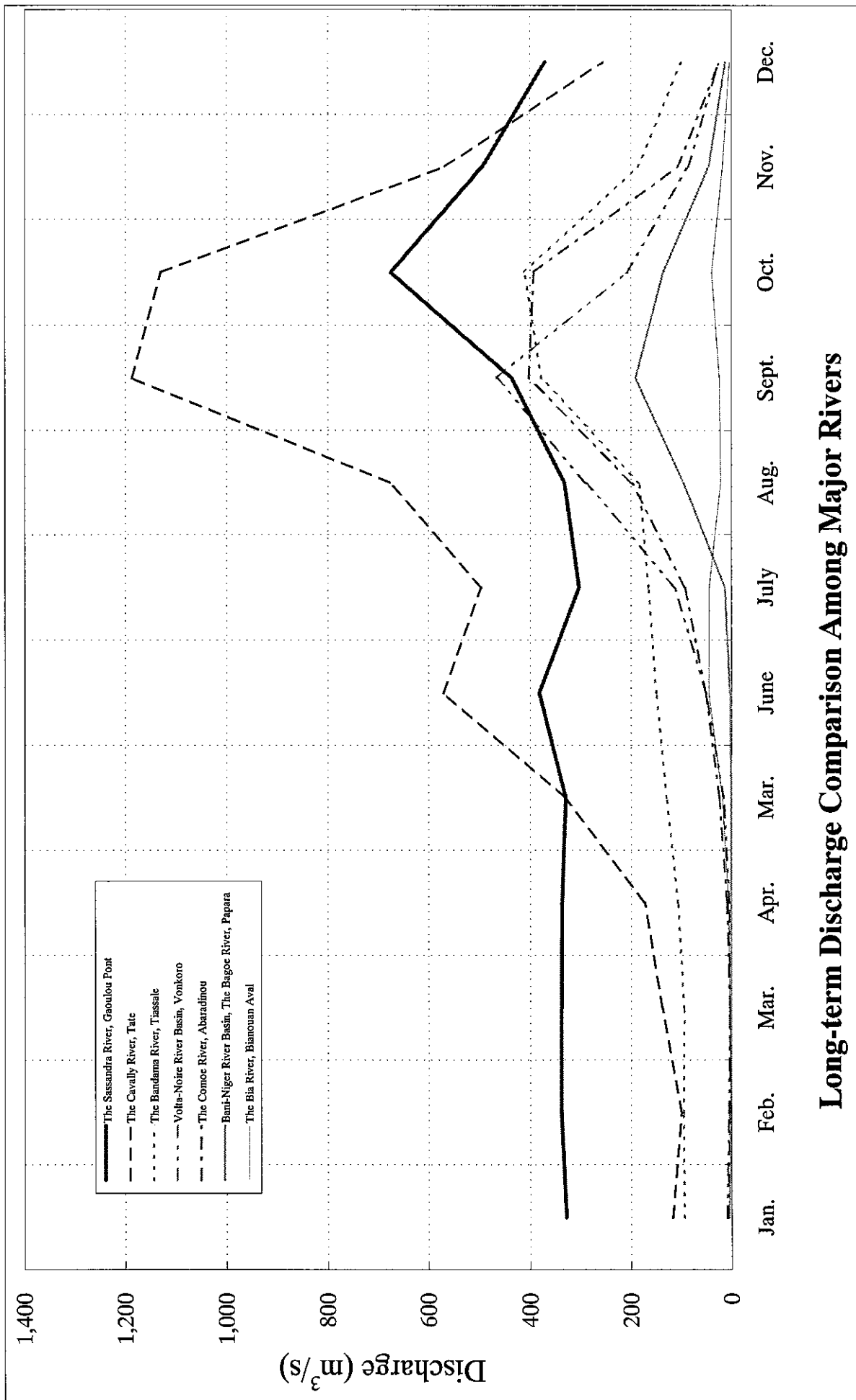
Double-mass Curve (Gaulou Pont, The Sassandra River)



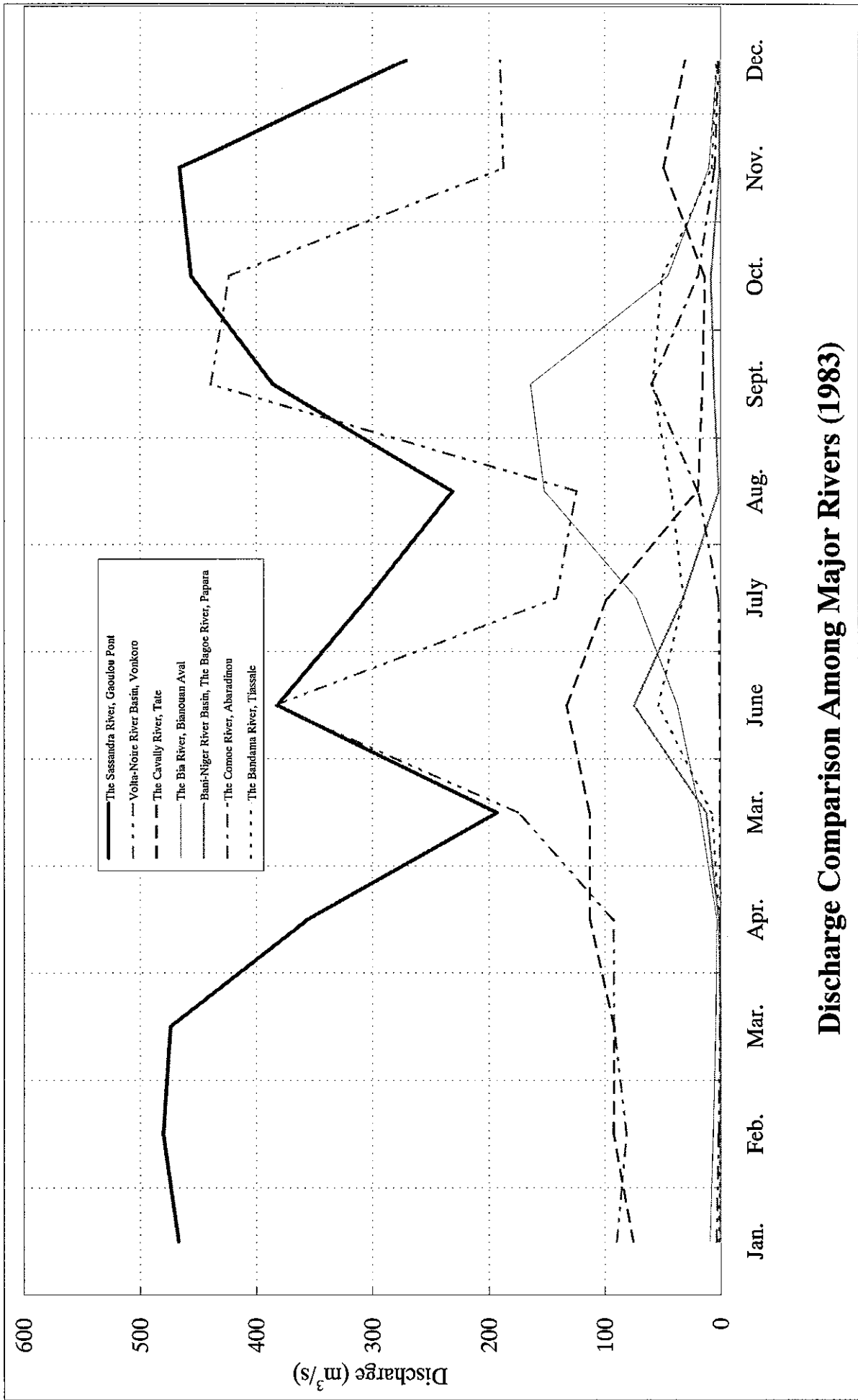


Double-mass Curve (Abradinou, The Comoe River)





Long-term Discharge Comparison Among Major Rivers



RIVER STATION BASIN		CATCHMENT AREA												: 24,050 Km ²		: 135 m		
		: BANDAMA (BLANC)																
		: BADA												ALTIITUDE				
		: BANDAMA																
A.D.	Mean Discharge (m ³ /s)												Maximum		Minimu			
	Dry Season			Rainy Season						Dry Season			Discharge		Discharge			
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual		Rainy		Dry		
												Avg.						
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	6.56	-	-	-	-	-	-	-
1983	1.30	0.602	0.859	1.40	3.29	3.48	6.89	9.69	26.9	16.1	0.988	6.1	9.7	1.1	69	22/09	0.250	12/03
1984	0.001	0	0.432	0.142	7.16	10.9	23.9	57.4	147	83.9	5.49	29.8	47.2	5.5	212	20/09	0	26/02
1985	2.01	0.261	1.95	7.47	4.85	6.46	52.0	469	547	139	33.7	105.8	175.1	8.9	903	27/08	0	26/03
1986	2.96	1.69	0.938	3.38	3.31	7.98	11.7	83.7	263	115	50.4	46.2	69.7	13.3	338	22/09	0.445	23/03
1987	3.57	2.72	1.47	1.82	0.766	12.6	14.1	63.9	262	143	38.5	46.3	71.2	11.4	315	05/09	0.175	26/04
1988	3.33	0.736	0.341	0.017	-	2.92	49.3	172	466	272	29.4	-	-	8.3	597	07/09	0	26/04
1989	1.81	0.885	1.37	3.61	3.53	6.43	34.2	284	568	190	56.2	98.2	155.7	17.7	694	22/09	0.540	30/01
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	67.3	109.1	8.7	480	04/09	0	29/03
1992	1.69	0.752	0.032	0.199	11.6	20.2	42.0	113	162	93.1	33.8	40.6	63.2	8.9	278	07/08	0	02/04
1993	3.44	0.509	0.817	0.344	11.1	15.3	16.4	22.9	125	83.3	27.0	26.0	39.2	7.5	175	23/09	0.070	26/04
1994	0.685	0.020	0.158	1.45	3.30	12.7	19.6	130	267	456	208	93.3	127.2	45.9	555	11/10	0	19/03
1995	4.86	1.300	0.235	0.995	13.50	7.5	19.5	144	327	227	64.9	68.7	123.1	17.1	424	26/09	0.035	20/04
1996	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Average	m3/s	3.5	1.0	0.8	2.4	6.5	31.5	146.3	283.9	146.9	48.9	57.7	89.7	12.9	903	27/8/85	0	
	MCM	9.4	2.4	2.1	6.2	17.4	84.4	391.8	735.9	393.5	126.7	1,824.3	1,656.4	167.9				
mm		0.4	0.1	0.1	0.3	0.7	3.5	16.3	30.6	16.4	5.3	75.9	68.9	7.0				
	m ³ /s/100km ²	0.01	0.004	0.003	0.01	0.03	0.13	0.61	1.18	0.61	0.20	0.24	0.37	0.05				

Note: "-" means data not available

Source: Director of Water

RIVER		CATCHMENT AREA												Maximum		Minimum					
STATION		ALTITUDE												Discharge		Discharge					
BASIN		: BANDAMA												m ³ /s		m ³ /s					
		: KIMOUKRO												m ³ /s		m ³ /s					
		: BANDAMA												m ³ /s		m ³ /s					
A.D.		Mean Discharge (m ³ /s)												m ³ /s		m ³ /s					
		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	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	122	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	m3/s	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	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	0.4	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 STATION BASIN	CATCHMENT AREA												: 61,850 Km ²		: 13 m					
	: BANDAMA												: TIASSALE		: BANDAMA					
	ALTITUDE																			
A.D.	Mean Discharge (m ³ /s)												Maximum		Minimum					
	Dry Season			Rainy Season						Annual			Season		Discharge		Date			
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Dry	Rainy	Avg.	Dry	Rainy	Discharge	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	192.9	161.7	192.9	99.4	421	08/10	10/03	
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	196.1	163.7	196.1	98.9	589	30/06	02/03	
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	69.2	70.3	69.2	72.6	297	23/06	25/12	
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	160.8	118.4	160.8	33.7	714	17/10	8.3	
1985	68.9	66.9	65.9	62.4	98.6	123.0	174.0	458.0	843.0	699.0	181.0	112.0	329.9	246.1	329.9	78.4	947	27/09	31/01	
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	136.0	133.1	136.0	127.3	322	03/10	28/07	
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	225.1	179.7	225.1	88.9	836	20/10	20/07	
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	223.9	175.7	223.9	79.4	1,160	27/09	07/04	
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	382.7	280.9	382.7	77.3	1,350	07/10	02/01	
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	139.3	128.9	139.3	107.9	297	07/04	02/01	
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	174.4	159.0	174.4	128.2	474	18/07	01/01	
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	113.8	106.0	113.8	90.3	251	22/10	08/04	
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	126.6	109.3	126.6	74.8	309	07/10	13/01	
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	222.6	177.0	222.6	85.9	867	13/10	06/08	
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	278.0	222.6	278.0	111.7	735	30/10	18/03	
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	275.3	225.6	275.3	126.2	-	-	-	
Average	m3/s	94.0	95.5	94.0	106.5	149.3	165.0	183.1	377.7	405.1	185.8	99.0	212.7	173.7	212.7	95.6	1,350	07/10/89	8.3	7/2/84
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	4,485.9	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	72.5	88.7	72.5	16.2				
m ³ /s/100km ²	0.15	0.15	0.15	0.17	0.21	0.24	0.27	0.30	0.61	0.65	0.30	0.16	0.34	0.28	0.34	0.15				

Note: "-" means data not available

Source: Director of Water

RIVER STATION BASIN	: BANDAMA (BLANC)		: 5,375 Km ²		CATCHMENT AREA		: m		ALTITUDE										
	: TAWARA AMONT																		
	: BANDAMA																		
	A.D.	Mean Discharge (m ³ /s)										Maximum Discharge	Minimum Discharge						
	Dry Season			Rainy Season			Dry Season			Annual Avg.	Rainy	Dry	m ³ /s	Date	m ³ /s	Date			
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec							
1980	0.383	0.086	0	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	-	-	-	-	-	-	-	1.75	15.4	4.55	0.506	0.05	-	-	-	31.0	15/09	0	-
1985	-	-	-	-	-	-	-	-	-	-	3.79	0.766	-	-	-	-	-	-	-
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	m ³ /s	0.4	0.1	0	0.1	0.3	1.3	9.5	36.9	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	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	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 STATION BASIN		CATCHMENT AREA ALTITUDE												: 14,500 Km ² : 269 m						
		: BANDAMA (BLANC) : TORTIYA AMONT : BANDAMA												: 14,500 Km ² : 269 m						
		Mean Discharge (m ³ /s)												Maximum Discharge		Minimum Discharge				
A.D.	Dry Season			Rainy Season						Dry Season			Annual		Season		Maximum Discharge		Minimum 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	-	-	-	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	m3/s	1.9	1.0	1.6	2.8	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	mm	5.1	2.4	4.3	7.3	19.2	63.7	314.7	547.7	257.7	54.7	10.4	1,301.4	1,217.2	84.2					
m ³ /s/100km ²		0.01	0.2	0.3	0.5	1.3	4.4	21.7	37.8	17.8	3.8	0.7	89.8	83.9	5.8					
		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

RIVER STATION BASIN	CATCHMENT AREA												: 19,800 Km ²																	
	ALTIITUDE												: 187 m																	
	: MARAHOUE																													
	: BOUAFLE																													
: BANDAMA																														
A.D.	Mean Discharge (m ³ /s)																													
	Dry Season						Rainy Season						Dry Season						Annual						Maximum Discharge		Minimum Discharge			
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg.	Rainy	Dry	m ³ /s	Date	m ³ /s
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	76.7	46.9	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	42.9	28.3	7.9	206	10/09	0.111	10/02											
1983	1.27	0.051	0	0	1.07	3.50	1.01	0.221	12.2	12.1	2.82	0.475	4.3	2.9	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	58.3	36.2	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	100.7	61.5	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	40.2	26.2	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	84.4	52.9	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	128.3	77.3	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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1991	10.2	5.26	3.18	7.55	15.7	20.3	34.9	65.0	152	61.9	26.3	13.1	51.1	34.6	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	2.34	2.75	4.31	3.27	6.08	23.0	89.9	105	18.8	4.40	33.5	21.9	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	109.0	85.5	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	97.6	61.8	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	130.6	80.6	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	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	0.01	0.03	0.04	0.13	0.48	1.21	0.77	0.23	0.04	0.04	0.25	0.38	0.06	-	-	-	-									

Note: "-" means data not available

Source: Director of Water

RIVER	CATCHMENT AREA												Maximum		Minimum		
	: MARAHOUE												Discharge		Discharge		
	: MANKONO												m ³ /s		m ³ /s		
STATION	ALTITUDE												Date		Date		
BASIN	: BANDAMA												m ³ /s		m ³ /s		
A.D.	Mean Discharge (m ³ /s)												Rainy		Dry		
	Dry Season			Rainy Season						Dry Season			Annual		Season		
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg.	Rainy	Dry	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
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
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
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
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
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
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
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
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
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
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
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
1996	0.653	0.319	0.303	1.060	0.337	1.15	2.24	39.7	-	-	-	-	-	-	-	-	-
Average	m3/s	0.4	0.1	0.1	0.2	0.6	8.8	47.8	78.9	50.1	15.5	1.9	17.1	26.8	3.6	265	1/11/94
	MCM	1.1	0.2	0.3	0.5	1.6	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	6.0	0.8	80.9	73.9	7.0		
m ³ /s/100km ²	0.01	0.001	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		CATCHMENT AREA												Maximum Discharge		Minimum Discharge										
STATION		: MARAHOUE												: 17,314 Km ²												
BASIN		: ZUENOULA												: m ³ /s		: m										
		: BANDAMA												: m ³ /s		: m										
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	Jan	Feb	Mar	Apr	May	Rainy	Dry	Avg.	Discharge	Date	Discharge	Date	
	1980	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	1981	-	-	-	-	14.8	15.9	78.5	214	174	61.3	13.7	2.31	-	-	-	-	-	-	-	-	282	05/08	-	-	
	1982	0.296	0.368	0.372	7.97	1.99	10.4	13.5	57.5	150	59.8	26.0	3.00	-	-	-	-	-	43.0	6.0	27.6	246	08/09	0	31/01	
	1983	0.206	0.074	0.014	0	1.81	0.720	0.154	0.297	21.1	8.10	0.552	0.189	-	-	-	-	-	4.6	0.2	2.8	38	18/09	0	25/04	
	1984	0	0	2.840	0.833	8.56	0.202	24.3	116	181	79.8	14.5	1.49	-	-	-	-	-	58.7	3.8	35.8	276	08/08	0	09/03	
	1985	0.460	0.233	0.435	0.302	0.535	1.49	34.9	221	287	95.4	24.9	2.56	-	-	-	-	-	91.5	5.7	55.8	365	19/09	0.075	22/02	
	1986	0.723	0.824	0.630	0.557	0.614	0.766	-	-	123	77.8	28.8	3.60	-	-	-	-	-	-	6.9	-	-	-	-	0.225	04/02
	1987	0.622	0.459	0.415	0.295	0.422	5.80	8.40	71.9	281	160	36.8	7.56	-	-	-	-	-	75.4	9.2	47.8	383	04/09	0.113	20/03	
	1988	0.786	0.659	0.734	0.414	0.651	0.644	48.2	-	-	151	30.8	7.42	-	-	-	-	-	-	8.1	-	-	-	-	0.150	02/03
	1989	0.875	0.486	0.512	0.736	0.866	3.76	39.0	245	-	139	36.4	5.56	-	-	-	-	-	-	8.8	-	-	-	-	0.250	08/03
	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	-	-	-	-	-	33.1	10.4	23.6	100	28/09	0.030	28/03	
	1991	1.29	0.269	0.543	0.797	5.32	14.6	36.6	82.7	162	66.8	17.8	2.32	-	-	-	-	-	52.7	4.4	32.6	266	06/09	0.066	14/02	
	1992	0.358	0.356	0.287	0.446	1.63	3.92	18.5	72.2	84.2	163	41.4	5.16	-	-	-	-	-	49.1	9.5	32.6	286	04/10	0.082	20/03	
	1993	0.041	0	0.060	1.98	0.931	0.772	13.2	35.4	90.5	85.8	19.4	1.91	-	-	-	-	-	32.7	4.3	20.8	135	15/10	0	22/02	
	1994	0.244	0.040	0.263	1.14	3.39	6.02	13.0	46.0	313	424.0	237.0	17.90	-	-	-	-	-	115.2	51.1	88.5	538	21/10	0	13/03	
	1995	1.92	0.225	0.134	0.944	4.67	6.34	14.9	147.0	299	216.0	49.2	8.92	-	-	-	-	-	98.4	12.1	62.4	390	29/09	0	09/03	
	1996	1.52	1.38	2.85	4.03	2.11	12.1	33.3	-	-	199	38	11.9	-	-	-	-	-	-	11.1	-	-	-	-	-	-
Average	m3/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	-	-	-	-	-	63.2	9.7	40.9	538	21/10/94	0	-	-
	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	-	-	-	-	-	1,169.9	126.4	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	-	-	-	-	-	67.6	7.3	74.9	-	-	-	-	-
	m ³ /s/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	-	-	-	-	-	0.37	0.06	0.24	-	-	-	-	-

Note: "-" means data not available

Source: Director of Water

RIVER		CATCHMENT AREA												: 3,710 Km ²				
STATION		: RTE BORON-KADYOHA												:				
BASIN		: BANDAMA												ALTITUDE		: m		
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	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	6.62	19.3	33.1	5.5	115	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	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	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	0.215	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	0.274	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	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	-	-	0.722	-	-	-	-	-	-	-
1989	0.174	0.005	0	0.002	0.374	0.388	6.34	31.2	-	21.7	0.65	-	-	0.5	-	-	0	-
1990	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1991	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1992	0.219	0	0	0.001	0.627	-	-	10.0	16.6	15.6	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	2.32	14.2	26.1	2.3	71.6	17/09	0	12/03
1996	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Average	0.5	0.2	0.4	0.3	0.6	1.3	7.0	26.0	38.0	19.2	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	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	1.2	71.8	65.6	6.3	-	-	-	-
m ³ /s/100km ²	0.01	0.01	0.01	0.01	0.02	0.04	0.19	0.70	1.02	0.52	0.04	0.23	0.41	0.04	-	-	-	-

Note: "-" means data not available

Source: Director of Water

RIVER		CATCHMENT AREA												Minimum					
STATION		: N'ZI												Discharge					
BASIN		: BOCANDA												Date					
		: BANDAMA												m ³ /s					
		ALTITUDE												Date					
		: 94 m												m ³ /s					
		: 20,500 Km ²												Date					
A.D.		Mean Discharge (m ³ /s)												Discharge					
		Dry Season			Rainy Season						Dry Season			Season					
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg.	Rainy	Dry	m ³ /s	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	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	m ³ /s	0.7	0.1	0.8	1.7	5.8	10.7	22.4	62.7	139.1	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	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	4.4	0.7	53.0	47.7	5.1	-	-	-	-
	m ³ /s/100km ²	0.003	0.000	0.004	0.01	0.03	0.05	0.11	0.31	0.62	0.17	0.03	0.17	0.26	0.04	-	-	-	-

Note: "-" means data not available

Source: Director of Water

RIVER		CATCHMENT AREA												: 6,620 Km ²								
STATION		ALTITUDE												:								
BASIN		: RITE KATIOLA-DABAKALA												:								
		: BANDAMA																				
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	Nov	Dec	Avg.	Rainy	Dry	m ³ /s	Date	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	22.2	3.24	24.9	45.6	4.3	231	27/08	0	11/03
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	3.81	0.413	11.5	22.1	0.8	92.8	20/10	0	04/03
1982		0.037	0	0.091	2.91	0.513	0.294	1.67	5.14	6.40	8.26	9.24	0.413	9.24	0.413	2.9	3.7	2.1	41.6	22/04	0	13/03
1983		0.033	0	0	0	0.715	0.205	0.057	0.165	0.252	0.449	0.061	0	0.061	0	0.2	0.3	0	1.77	24/05	0	-
1984		0	0	0	0	0.667	0.587	7.78	18.8	57.7	53.2	9.70	1.22	9.70	1.22	12.5	23.1	1.8	123	04/09	0	31/01
1985		0.135	0.002	0	0.807	0.191	0.216	14.0	102	78.2	40.6	8.97	0.832	8.97	0.832	20.5	39.2	1.8	197	27/08	0	27/03
1986		0.065	0	0	0	0	1.20	3.78	7.09	60.1	27.9	22.0	-	22.0	-	-	16.7	-	107	17/09	0	01/04
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	3.57	0.909	3.7	6.3	1.1	33.1	08/08	0.039	07/04
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	5.93	0.537	11.6	22.1	1.1	67.7	09/09	0.050	06/04
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	9.58	0.674	5.1	8.3	1.8	50.7	05/10	0	24/03
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	5.86	0.434	7.9	14.6	1.1	155	04/09	0	28/03
1994		0.015	-	-	-	-	1.41	-	-	-	111	39.2	2.18	39.2	2.18	-	-	-	161	16/09	0	-
1995		0.229	0	0	0.139	10.8	4.74	4.16	30.2	85.2	66	13.1	1.23	13.1	1.23	18.0	33.5	2.4	140	05/10	0	-
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	11.8	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	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	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	0.18	0.02	0.17	0.31	0.03				

Note: "-" means data not available

Source: Director of Water

RIVER		CATCHMENT AREA												: 24,100 Km ²					
STATION		: DIMBOKRO												: m					
BASIN		: BANDAMA												: ALTITUDE					
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	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	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		CATCHMENT AREA												: 15,700 Km ²						
STATION		ALTITUDE												:						
BASIN		: BANDAMA												: m						
: N'ZI		: M'BAHAKRO												:						
: BANDAMA		: BANDAMA												:						
A.D.		Mean Discharge (m ³ /s)												Maximum Discharge		Minimum Discharge				
		Dry Season			Rainy Season						Dry Season			Annual		Rainy		Dry		
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg.	Rainy	Dry	m ³ /s	Date	m ³ /s	Date
1980	0.636	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	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	21/9/89	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					
m ³ /s/100km ²	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		CATCHMENT AREA												Minimum Discharge					
STATION		: NZI												: 35,000 Km ²					
BASIN		: ZIENOA (N'ZIANOA)												: 29 m					
		: BANDAMA												: ALTITUDE					
A.D.	Mean Discharge (m ³ /s)														Maximum Discharge	Date	Minimum Discharge	Date	
	Dry Season						Rainy Season						Annual Avg.	Season					
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		Dry					Rainy
1980	1.81	0.673	0.322	0.239	1.94	30.2	7.85	126	267	332	152	33.0	11.8	102.0	79.4	416	12/10	0	01/05
1981	5.21	1.30	1.07	4.26	21.4	17.0	47.9	88.6	109	23.4	3.27	3.27	3.3	42.5	32.7	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	1.7	28.6	21.9	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	0.3	7.7	5.8	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	3.4	78.2	59.5	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	5.8	152.9	116.1	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	3.5	22.4	17.7	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	3.9	75.8	57.8	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	3.3	61.6	47.0	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	7.7	155.9	118.9	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	6.5	19.3	16.1	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	2.9	49.9	38.1	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	3.9	17.5	14.1	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	4.1	29.7	23.3	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	5.4	63.2	48.7	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	5.0	95.8	73.1	315	06/07	0	18/03
1996	2.28	0.487	0.582	0.764	-	-	149	116	181	210	-	-	-	-	-	-	-	-	-
Average	m3/s	2.0	0.4	0.4	2.6	13.6	58.2	64.7	142.7	200.2	60.4	11.2	4.5	64.0	49.1	725	27/10/89	0	
	MCM	5.4	1.0	1.1	6.7	36.4	155.9	173.3	369.9	536.2	156.6	30.0	36.4	1,521.9	1,558.3				
	mm	0.2	0.03	0.03	0.2	1.0	4.5	5.0	10.6	15.3	4.5	0.9	1.0	43.5	44.5				
	m ³ /s/100km ²	0.01	0.001	0.001	0.01	0.04	0.09	0.18	0.41	0.57	0.17	0.03	0.01	0.18	0.14				

Note: "-" means data not available

Source: Director of Water

RIVER		CATCHMENT AREA												: 4,860 Km ²					
STATION		: KOUROUKORO												: m					
BASIN		: BANDAMA												: ALTITUDE					
A.D.	Mean Discharge (m ³ /s)												Maximum Discharge		Minimu 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	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	8.63	25.6	44.9	19.2	8.65	1.43	9.4	16.9	1.9	103	30/08	0	09/03	0
1983	0.208	0	0	0.091	0.096	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	0
1984	0.006	0	0.770	0.001	1.51	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	0
1985	0.032	0.016	0.014	0.005	0.027	7.11	79.0	-	-	-	0.699	-	14.4	14.4	-	-	0	11/03	0
1986	0.085	0.025	0.034	0.029	0.026	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	0.009
1987	0.236	0.042	-	-	0.053	0.545	24.5	-	43.3	8.04	1.96	-	-	-	-	-	-	-	-
1988	0.418	-	-	0.163	0.582	8.73	66.5	-	42.3	7.77	2.04	-	-	-	199	08/09	0.065	24/04	0.065
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	2.98	22.9	27.3	27.7	8.55	-	-	14.6	-	42.2	08/08	0.013	08/04	0.013
1991	1.13	0.606	0.263	-	-	-	-	-	29.5	-	-	-	-	-	-	-	0.056	18/03	-
1992	-	-	-	0.422	0.551	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	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	0.065
1994	0.359	0.219	0.392	0.556	0.706	-	-	94.6	98.0	53.8	4.38	-	-	10.0	169	15/09	0.056	26/02	0.056
1995	1.09	0.292	-	0.106	0.848	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	8.14	29	142.0	49.5	9.95	4.17	20.9	39.1	2.7	-	-	-	-	-
Average	m3/s	0.4	0.2	0.3	0.3	1.2	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	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	21.3	28.8	19.2	5.9	1.0	82.5	75.0	7.5	-	-	-	-	-
	m ³ /s/100km ²	0.01	0.004	0.01	0.01	0.02	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												:						
BASIN		: BANDAMA												: m						
A.D.		Mean Discharge (m ³ /s)												Maximum Discharge		Minimum Discharge				
		Dry Season			Rainy Season						Dry Season			Annual Avg.		Season		Date		
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg.	Rainy	Dry	m ³ /s	Date	m ³ /s	Date
	1980	26.7	18.7	41.3	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	m ³ /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	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	0.7	1.1	2.0	2.2	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	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