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Table 3.8-7 Examples of Operation Records by Dispatching Center of CIE (11 pages)

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Table 3.8-7 Examples of Operation Records by Dispatching Center of CIE (11 pages)

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Table 3.8-8 Features and Status of Power Generation/Transmission and Facilities (10 Pages) HYDROELECTRIC PLANTS IN COTE d'IVOIRE

ITEMS	UNITS	AYAMEI	AYAME II	KOSSOU	TAABO	BUYO
GENERAL SPECIFICATIONS	Contraction of the		Sec. Sec.	See to all have a	Selection a	And States
CATCHMENT BASIN	km ²	9320	9320	32 400	57700	48250
AVERAGE YEAR MODULE	m3/s	71	71	151	92	398
DRY YEAR MODULE	m3/s	44	44	33	52	250
PAINY YEAR MODULE	11100	178	176	308	222	580
AVEDACE YEAR SUPPLY	Mm2/an	2740	2240	4762	2900	12550
AVERAGE TEAR SOFFET	Minoran	1200	1200	1040	1840	78.90
URT TEAR SUPPLY	MmStan	1390	1390	0713	7000	18200
RAINY YEAR SUPPLY	Mm3/an	5550	2000	113	1000	10290
RESERVOIR SPECIFICATIONS			自然和政治民主任任	说明温暖了数19000	的政治和法律	1999年1999年1999年1
MAXIMUM NORMALE TIGHT LEVEL / SEA LEVEL	m	90,5	69	206	124	. 201
VOLUME AT LINE	Mm3	900	69	28754	630	8300
SUPERFICIE AT LINE	km ³	180	1	1780	69	895
MINIMUM NORMALE TIGHT LEVEL / SEA LEVEL	m	83	60,5	184	118	200
VOLUME AT LINE	Mm3	54	1	4110	290	186,5
TECHNICAL SPECIFICATIONS	國國部國	部に変換	19月11日1日	流展高超		
TOTAL POWER	MW	20	30	74	210	165
AVERACE YEAR PRODUCTIBLE	GWh	80	120	450 to 50	960 to 380	900
WARRANTED PROPUCTRIE	GWh	60	90	450 10 45	8501	610
YEAR OF STARTING EXPLOITATION	Gin	1050	1965	1977	1979	1980
TEAR OF STARTING EXPLOITATION	5450 Mind (10772)	1858	1300	Standard and an and	Technica Sabartal	Production and the second
PLANT	中的名词复数	的复数的复数形式	中國國際的新聞的新聞的	Salaskas-Taolo attallar	STRUCTURE INVEST	
MAXMUM RAW FALL HEIGHT	m	25	32,5	49,5	59	36,1
MINIMUM RAW FALL HEIGHT	m	17,5	24	27,5	54	22,6
AVERAGE ENERGY PROFIT	m3/kWh	21	13,7	12	7,7	13
MINIMUM ENERGY PROFIT	m3/kwh	19,6	13,7	9	5,9	
MAXIMUM ENERGY PROFIT	m3/kwh	30,5	137	15	11,3	17,5
TOTAL FLOW	m3/s	114	104	152	154	555
TURBINE	SHEER SHEER	國際認識	國建制這次		國際組織	No. IN COLOR
NUMBER	Practicity - 16-47 Mar - 16-47 Mar	2	2	3	3	3
LINIT POWER	CV	15600	22190	93295	109510	82660
TYPE		Kanha	ave vertical	Francis	ave vertical	
MANUFACTURED	1 1	Vapan	Married Vertical	Pius estraci	Varian	NEVPPC
ARNOPACIORER	-	Vever	Contractor (Contractor)	Carcona Carcona	CARDING STREET	CARLES AND
GENERATORS		1999年1999年199		Rost Barris	CARES STATE	A. S. A.
NUMBER	1	2	2	3	3	3
UNIT POWER	CV	12	19	61,6-585	78-70	61-55
VOLTAGE OUTPUT	kV	5,5	15,2	-	•	10,5
MANUFACTURER		Sácharon	sw	Ascen	Westingho	Alsthom
	-	Non-Internet 200		Presidentingenetics	UBC .	Atlantique
TRANSFORMERS	Star 2			1999年3月1日	拉的是实际	BASIS AR
NUMBER		2	2	3	3	3
UNIT POWER	KVA	12	19	72	82.5	61
TRANSFORMATION RATIO	N	5,5/90	5,5/90	17/95	13,8/235	10,5/235
MANUEACTURER		sw	sw	Morell OTE	ACEC	Jeumont
material	NAMES OF ALL PROPERTY AND		ning annual con	anonmenan	Constanting of the	Schneider
AUXILIARIES		1. 产力方			The second second	SALCHETE -
DIESEL	Contraction of the			Constant in	A DISHETAL CAD	
TYPE	Anna anna anna	GVU 33		S.A.C.R.	D 348	
UNIT POWER	CV	215		-	-	
MANUFACTURER	1	S.G.C.M		Caterpillar		
TRANSFORMERS		THE REAL	2765743328			The second second
NUMBER	19944085935	2	2	3	3	3
UNIT POWER	KVA	3166 6	3x66.6	3x300	800	3x150
TRANSFORMATION PATIO	IN	5500/380	5500/380	17000/450	13800/380	10500/380
MANUEACTIRER		sw	sw	Ascen	ACEC	Jeumont
in the order	-	and a state of the	DODRINGH HIS MAD	DECOMPRISION OF THE OWNER	AND TRANSPORT	Schneider
GENERATOR	國際認識	2 Caller Cont		and the second		- Salar Barrier
UNIT POWER	KVA	150		210-262	400	250
VOLTAGE OUTPUT	V	380		400	380	380
MANUFACTURER		Oerilkon	1.000	Elect. SET		Alsthom
DAMS & DYKES	1959 1953 1975 1975 1975 1975 1975 1975 1975 1975	-	A CONTRACTOR OF A CONTRACT	CONTRACTOR OF	- TARCORN	SERVICE STR
TOD EBOM SEALEVE	- ARACENTER	SOCIETY CLASS	1.512-127-121-121-12	200	127	20
IOP FROM SEA LEVEL		84.3	10,5	203	121	204
I ENCTURI COCCT			210	1000	0100	8200
LENGTH IN CREST	m	610	310	1800	8100	6290
LENGTH IN CREST WIDTH IN CREST	m	610 7,3	310 1	1800 10	8100 10	6290
LENGTH IN CREST WIDTH IN CREST MAXIMUM HEIGHT ON FOUNDATION	m m m	610 7,3 30	310 1 35	1800 10 58	8100 10 34	6290 10 37
LENGTH IN CREST WIDTH IN CREST MAXIMUM HEIGHT ON FOUNDATION TOTAL VOLUME	m m m Mm3	610 7,3 30 150	310 1 35 50	1800 10 58 5,2	8100 10 34 9,8	6290 10 37 6,9

¹Warrantied by Marahoue River

² C = concrete ; S = soil ; R = rocks

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STATISTICS IN

Table 3.8-8Features and Status of Power Generation/Transmission
and Facilities (10 Pages)

TEC	HNICAL CHARACTER OF KOSSOU HYDROELECTRIC PL	
GENERAL CARACTERISTICS Puissance installée :175,5 MW Bassin versant Productible garanti : 505 GWH Apport. annuel. année moyenne du projet : 4762 10 ⁸ m ³ Dates de mise en service - G1 :18/10/72 - G2 :01/12/72	DAM Type : terre et enrochement Cote de la crète : 209 m Hauteur maximale au dessus du lit : 58 m Longueur : 1500 m Volume total : 5263,4 m ³	RESERVOIR Cote maximale : 206 m Cote minimale d'exploitation : 186m (183m en 1984 et 180m en1994) Cap. retenue pleine : 28,8 x 10 ⁹ m ³ Longueur à cette cote :150 Km Superficie à cette cote :1855 Km ² Cote max. depuis mise en service :192,81 (16/11/80) Cote max. depuis mise en service
- G3 : 28/02/73		:180,21 (14/07/94)
RISING OVERFLOW EVACUATOR Type : déversoir à vannes Capacité théorique sous 207m: 2160 m ³ Vannes : 3 vannes segment 10 x 10,30 m Cote du seuil : 196 m / la mer Hauteur seuil : 11 m	PRISE D'EAU Type: inclinée, avec grilles inclinaison : 14°02" par rapport à la verticale Nb de vannes: 3 vannes wagon Seuil entrée prise:176,80 m Batardeaux: jeu de 3 éléments de 5,70 x 10,07 m	CONDUTE FORCEE Type : Galerie en béton avec blindage en acier Nombre : 3 Longueurs : G1 :124,95 m G2: 120,45m G3: 115,95m Diamètre : de 7 m à 6,3 m à l'extrémité aval
TURBIN	ALTERNATOR	TRANSFORMER
Type : Francis Vitesse :125 tr/ mn Puissance développée sous 43 m (cote 200 m) : 8,5 MWH Hauteur de chute : 49,5 m 40,5 m 35 m Débit: 152,28 m ³ /s	Type : parapluie, à arbre vertical Puissance nominale : 61,6 MVA Constructeur : ANSALDO / M. Tension de sortie :17,5 KV I nominale : 2095 A Vitesse :125 tr/ mn Fréquence : 50 Hz	Type : OFAF Puissance : 72 MVA U nominale :240/17 KV (G2-G3) 95/17 KV (G1) I nominale :173/2445 A (G2-G3)* 437/2445 A (G1) Constructeur : ERCOLE-MARELLI
146,33 m³/s 136 m³/s		
Hauteur de chute nominale : 45,5 m Hauteur de chute maximale : 49,5 m Puissance nominale : 60 MW Constructeur : RIVA -CALZONI Débit max. :142,60 m ³ /s		
CANAL DE FUITE	HDM DES GROUPES	
Niveau maxi :164,00 m Niveau normal :156,00 m Niveau mini : 153,00 m	Jusqu'aux travaux d'automatisation de 79-82 G1 :21 542 h G2 : 20 100 h G3 :19 641 h Du 18/03/82 au 02/04/98 G1: 90 416 h G2:96 669 h G3:103 106 h	

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Table 3.8-8Features and Status of Power Generation/Transmission
and Facilities (10 Pages)

, CENT	RALE HYDROELECTRIC	QUE
	DE BUYO	
CARACTERISTQUES GENERALES	BARRAGE	RESERVOIR
Puissance installée: 165 MW Productible garanti: 900 GWH	Type : terre et enrochement	Cote des plus hautes eaux:200,20 m
Bassin versant: 46250 Km2 Débit équipé : 3 x 185 m 3/s	Barrage principal Hauteur : 37 m	Cote de retenue normale : 200 m Canacité à 200 m : 8 4 milliards m3
Débit moyen annuel: 390 m3/s	Longueur en crête : 3615 m	Cote mini d'exploitation : 186 50 m
Date de mise en service (E. S.I) G1 :30/10/80	Barrage sécondaire Hauteur : 20 m	Capacité à 186,50 m: 1,3 milliards m3
G2 :17/11/80 G3 :10/02/81	Longueur en crête : 1985 m Couronnement digue	Volume tranche utile: 7 milliards m3
	Longueur: 8200 m Largeur: 7,5 m	
PRISE D'EAU	ALTERNATEUR	TRANSFORMATEURS GROUPE
Nb de vannes : 3	Puissance : 61 MVA	Puissance :3x61 MVA
Type : wagon	Tension de sortie :10,5 KV	I nominal : 3354 A
Dimension :	I nominale : 3354 A	U nominal : 225 /10,5 KV
Seuil entrée prise : 145,80	Vitesse : 166,67 tr/mn	SOUTIRAGE Puissance : 3x 150 KVA
Batardeaux: 1 jeu de 3 éléments 6,70m x 7,10 m	Fréquence : 50 HZ	Fréquence : 50 HZ
6,70m x 7,10 m Iexcit : 695 A		
		· · · · · · · · · · · · · · · · · · ·
CONDUITE FORCEE	DIESEL SECOURS	EVACUATEUR DE CRUES Type : barrage piles masque en béton
Nombre : 3	Type :MOTERMIC	Nb de passes :5 Long :182m Larg:116m haut:45m
Diamètre intérieur : 7,50 m	Puissance : 500 KVA	Débit total évacuable :4500 m3/s
Longueur :65 m Espacement entre conduite: 20m	Tension : 400 V	Vannes de surface (clapet) Débit : 5 x50 m3/s
		Cote de seuil : 198
TURBINE (NEYRPIC) Type : Kaplan	AUXILIAIRES	Dimension : 9 x 2,50 Temps de levage :12 mn
Vitesse : 167 tr/mn Chute brute nom :26,50 à 40m	Motopompe régulation : 6	Temps de fermeture : 12 mn
Haut. de chute nominale:26,85 m Chute maxi possible :36,10 m	Motopompe réfrigération : 6	Vannes de vidange (segment) Débit : 5 x 839 m3/s
Chute mini : 22,60 m Diamètre roue : 5 m	Compresseur air: 2	Cote de seuil : 167 Dimension : 9 x 6 50
Débit : 3x185 m3 Vitesse d'emballement : 500 t/mn	Motoppe reprise fuites: 6	Temps de levage :18,4 mn Temps de fermeture : 23 mp
Puiss. unitaire .sous 35m :57MW	Moteur ventilo-alternateur: 18 Moteur filtre Brassert : 4	
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Table 3.8-8 Features and Status of Power Generation/Transmission and Excilition (10 Decay)



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(1991	
Status	
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ıl Figun	
Genera	

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ITEMS	1 1048	14462 1464					
Gross Prduction (MWh)		1770-1771	1995-1996	1993-1994	1 1661-7661	1001-1007	1001 1001
Hydraulic Production	3,457,068	3,825,631	2,767,081	2,339,182	2.245.494	111111111111111111111111111111111111111	TACT-DACT
Thermal Production	1,376,536	2,443,720	1,785,971	971.439	1 045 882	10542/242	0/8'6/7'7
CIPREL	2,658,382	2,441,445	1,333,786	1313 694	203,270,1	210,00	1,288,015
AZTO	1,557,964	1,345,510	684			[cco'cl1'1	606,489
Purchase							
Solde VRA	-577,850	-1,059,534	-352,676	20.740	101 005		
SIR	-592,779	1,059,926	-352,700	11 800	0/2,200	489,208	385,366
Sold Freedor (MXVb)	14,929	392	24	076.06	400'IA	101,140	
	2,804,547	2.838.084	757 275		149/11	4,862	
TAW YOITAGE	1.248,482	1.109.754		1962,942,41	1,365,307	1,889,671	1,942,172
Domestic	858 477	LC0 036		236,207	625,578	\$06,301	206.816
Professional		776 201	009,800	560,141	540,327	542,705	STOPPS
Public light		BCP,622	201,001	178,555	173,360	181.448	1 1 4 4 1 1
Average voltage / High voltage and SIR	2000121	123,874	104,398	97,511	\$5,251	82 48	774 00
Energy purchase (M fCFA)		1,725,830	1,28,7060	1,088,027	1,066,369	1 081 170	
VRA	18,013	16,519	10,114	1,620	1.802		05L,6L1,1
SIR	0	0	0	1,170	91.5 I		
	433	11		107		0.02,0	-
Sold energy (M frequency)	17,580	16,508	10.11.01		477	94	
	167,473	193,058	135,632	28 764	1 1 2 9		
Domestic	75,677	81,829	64.531	059 15	F1 F(L)	20,935	90,520
	49,036	52.539	41 590			47,280	47,814
	20,847	22.956		16/0'HC	32,848		-
rubite light	5.794	PECY		00/101	12,353		
Average voltage / High voltage and SIR	71.145	071.08	170'0	2,024	4 040	-	
VRA + CEB	20.651		07,6'n0	44,705	40,273	39,653	42.706
Customers (number)	JOU YFY		10,175			<u> </u>	
Low voltage	C00,0+0	151,195	528,456	398,009	426,190	419.50	115 274
Domestic		575,046	526,388	398,003	426,184	419.494	
Professional	0.69'9/6	821,126	472,797	100,825	378,678	371.317	
Public light		205,00	49,944	44,382	44,211	44.865	
Average voltage	0001	4,090	3,647	3,366	3.295	CIEE	
fiigh voltage	007'7	2,210	2,064	1,900	1,870	1.860	1/4'nc
Installed Nominal power (kW)	4	4	Ŧ	.प	. 4	Ponde	1,404
Inter-connected network		1,076,127	1,076,127	935,832	3,932	096.2E6	
Isolated stations		1,069,000	1,069,000	006'166	1006,159	000 110	000110
Rush hours power on the Inter-connected network MW		71,127	7,127	3,932	3,932	4 060	006'166
Network length (km)	740 86		433	360	347	368	Joon'L
Low voltage	000101	511,51	25,543	666.42	24,036	23.635	73 455
Avcrage voltage	10,04	10,136	9,022	8,430	8,229	8,015	C2412
High voltage	4 239	1267,61 XAC b	12,275	11,798	11,696	11,509	11.471
I FAUSSOFTMATION STATIONS HTA/BTA HTA/HTA	101 9		0+7'+	4,111	4,111	4,111	CC1 1
Light focus		CUOLC	575°C	5,276	5,255	5,128	5,104
Legal staff		100E1E04	701101	169,603	164,746	164,399	1660,201
Worker				pu	3,318	3,276	1,778
	-				1,200	1,298	166,1
Number of electional sectors and sectors a		,		Do 1	119'1	1,635	1,650
	;	1,700	1.435		194	443	447
nd ; not available				Ironte	1/cn'1	1,035	1,029

Table 3.8-8Features and Status of Power Generation/Transmission
and Facilities (10 Pages)

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Table 3.8-8Features and Status of Power Generation/Transmission
and Facilities (10 Pages)

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r	Total	· · · · · · · · · · · · · · · · · · ·		(Unit: MWh)
Vear	L	Medium 9 III-1	General	
I c-ai	Voltage	& High	Total	Variation
	Voltage	voltage		%
1952	931	549	1 480	
1953	3,391	1,992	5,383	263.7
1954	4,544	4,422	9,466	75.8
1955	6,533	7,088	13,621	43.9
1956	9,346	10,166	19,512	43.2
1957	13,930	13,384	27,314	40.0
1958	17,991	16,617	34,606	26.7
1959	23,649	21,397	45,046	30.5
1960	30,144	27,030	57,174	26.9
1901	41,807	34,833	76,640	34.0
1962	56,988	44,599	101,587	32.6
1903	/1,697	59,085	130,782	28.7
1904	83,200	74,775	157,975	20.8
	99,398	90,082	189,480	19.9
067	119,748	128,803	248,551	31.2
907	132,099	148,283	280,382	12.8
968	156,240	160,835	317,075	13.1
.969	178,808	191,306	370,114	16.7
970	203,584	224,941	428,525	15.8
971	221,329	269,981	491,310	14.6
972	252,996	310,823	563,819	14.8
973	302,282	359,030	661,312	17.3
974	295,746	382,192	67.7,938	2.5
975	350,384	440,207	790,591	16.6
970	286,712	376,067	662,779	-16.2
970-77	417,967	557,351	975,318	47.2
9/1-/8	482,187	654,656	1 136 843	16.6
970-79	587,311	735,545	1,322,856	16.4
777-00	688,160	833,774	1,521,934	15.1
200-01	732,646	856,181	1,588,827	4.4
701-04	//6,524	925,129	1,701,653	7.1
202-03	823,699	940,047	1,793,746	5.4
84-85	720,380	857,358	1,577,738	-12.0
25-26	759 700	982,799	1,716,967	8.8
86-87	777.061	1,021,292	1,790,014	4.3
87-82	111,201	1,091,210	1,868,461	4.4
08_80	044,040	1,111,588	1,934,213	3.5
89-90	875 710	1,134,011		4.1
90-91	023,/10	1,113,944	1,939,654	-3.7
91-92	806 201	1,132,326	1,942,172	0.1
92-93	702.000	1,083,370	1,889,671	-2.7
93-94	926 600	1,000,369	1,859,359	-1.6
94-95	803 100	1,088,180	1,924,860	3.5
95-96	073,100	1,1/,280	2,070,380	7.6
96-97	1 081 360	1,287,060	2,252,325	8.8
98	1 248 4821	1,587,340	2,468,700	9.6
	1,240,402	1,006,065	4,804,547	13.6

Annual Consumption of Electricity

c

Numbers of Electrification in Côte d'Ivoire (at the End of the Second Phase: 2000)

Regions	Total Population	Supplied population	Total number of localities	Number of electrified localities	Rate (%) of electrification (localities)	Rate electri (popt
AGNEBY	440,995	403,493	149	107	71.81	
BAS SASSANDRA	644,805	287,113	485	62	16.29	
DENGUELE	169,433	87,171	244	49	20.08	
HAUT SASSANDRA	1,001,665	536,144	510	132	25.88	
LACS	368,343	275,409	373	161	43.16	_
LAGUNES	2,522,854	2 436 460	266	183	8 8 9	
MARAHOUE	538,824	314,433	325	75	23.08	
MONTAGNES	959,228	576,215	948	280	00.04	
MOYEN COMOE	298,566	250,362	117	20	64.0C	
N'ZI COMOE	557,298	330.213	210	101	00.7C	
SAVANES	743.279	408 714	CVC 1	171	C + 77	
SUD BANDAMA	559.650	717 717	C+7(1	171	9.73	
SUD COMOF.	328 165	1114-07	100	2 2	19.07	
VALLEE DILBANDAMA	877 730	470'007	191	86	49.75	
WORODOI IGOI I		C47'0/C	948	187	19.73	
	066,000	103,884	722	106	14.68	
LAINZAIN	513,220	180,875	1,080	92	8.52	
Total (1988 population)	10,823,062	7,375,272	8,508	1.929	22 67	
1 otal (2000 population)	15,431,098	7,375,272	8,508	1,929	22.67	

Note: Population in 2000 was assumed (3% increase per year from 1988 to 2000)

 Table 3.8-8
 Features and Status of Power Generation/Transmission

and Facilities (10 Pages)

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Table 3.8-8Features and Status of Power Generation/Transmission
and Facilities (10 Pages)

HYDRAULIC SPECIFICATIONS FOR MAIN HYDROELECTRIC DAMS IN COTE d'IVOIRE

DAMS	U	1979-1980	1980-1981	YEARLY
				AVERAGE
AYAME				
Supply / Bia river	10^{6} m^{3}	2530,4	1848,1	1924
Flow rate / Bia river	m³/s	80	58,6	61
Rain level	mm	1798,6	1941,5	
Evaporation height	mm	1104,5	1099,5	
Evaporation volume	10^{6} m^{3}	136,5	138,2	
KOSSOU				
Supply / Bandama river	10 ⁶ m ³	5321,3	3892,7	467,7
Flow rate / Bandama river	m³/s	168,3	123,4	147,4
Rain level	mm	1453	870,7	· · _
Evaporation height	mm	1500	1500	· .
Evaporation volume	10^{6} m^{3}	1172	1116	
ТААВО			·····	
Supply / Bandama river	10 ⁶ m ³	6232,3	4132,8	3178,6
Flow rate / Bandama river	m³/s	197	131,1	100,8
Rain level	mm	907,5	1132,1	
Evaporation height	mm	1500	1500	
Evaporation volume	10 ⁶ m ³	92,8	94,4	
BUYO				
Supply / Sassandra river	10 ⁶ m ³	6787,3	9452,4	12302,8
Flow rate / Sassandra river	m ³ /s		299,7	390.1
Rain level	mm		801,3	
Evaporation height	mm	51,4	1419,3	
Evaporation volume	10 ⁶ m ³	251	976,3	

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. List of Existing Hydro-Electric Power Station

	11011						
River No.							
			II			1111	
Name of dam/reservoir		Buvo	Kneedu			V111	IX
Name of river		Crean J-r	TUNSSOIL	1 8200	Ayame I	Avame II	Fave (Gmb)
Longitude	10	Coldia	Bandama	Bandama	Bia	Bia	Can Deden
Latitude	10	0-14	, 10.2	6°12'	5°36'	1 3 2 0 3	2011 1 CUTO
[Sub-prefective (PS)		,10,/	5°29'	5°05'	3°10'	10101	.90-4
Main Purnose		Soubre	Yamoussoukro	Tiassalre	Aboieco		0~39
		Electricity	Electricity	Flectricity	Elation	ADOISSO	San Pedro
		Fisherv	Fichery	Nore	TICCILICITY	Electricity	Electricity
Utilice in charge of 0 & M		CIE			None	None	(Water supply?)
Basin area at dam site (total)	km ²	16 750		CIE	CIE	CIE	CIE
Reservoir HWL	E E	000	32 400	57 700	9 320	9 330	ACA C
Reservoir LWL		- 201	700	124	90,5	69	1 20
Tail W1. (Max)		C,08.1	I 84(181)*	118	83	60 5	167
Recervoir volume (UVIT)				67.4		- (nn	19,0
	million m ²	8 300	30 211	630			8.61
Reservoir area (HWL)	لاسم لاسم	805		ncn	2006	69	25
Type of nower station		020 2	1 /80	69	180	-	
		Dam type	Dam type	Dam type	Dam hmo		
rower capacity (installed)	MM	165	174	210		Dam type	Dam type
Annual production (average, planned)	GWH	006	140	017	07	30	5
Annual production (minimum, planned)	-GWH	×10	4.00	960	80	120	22
Annual production (actual Max)	EWD.	010	450	850	60	90	
Annual production (achual Mean)		0/0.0	241.7	. 744.4	106.9	1717	
Annual production (actual Mini)	UWD UWD	1/7.1	2.3	112.0	15.3	47.5	
Start Year of Oneration	H A D	611.6	107.6	439.5	64.2	1113	4.0
		1980	1972	6261	1040	1001	7.8
Head (Max.)	E	192	10.6		6021	C/KI	19837
Head (Mini.)	Ē	7.00	C.24	59	25	32.5	011
Discharge (Design) für nower		0.77	C.12	54	17,5	24	0 8
	m /S	555	152	154	P11	101	
		3	9	6		+01	66
Lype of turbine	-	Kaplan vertical	Francis vertical	Francis vertical	Vanlar Varial	7	2
					waptall, Y cfulcal	Kaplan vertical	Bulb, Kaplan

 Table 3.8-8
 Features and Status of Power Generation/Transmission

* Revised during the operation period

and Facilities (10 Pages)

Annual Hydro-Electric Power Generation

		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·				<u>(MWh)</u>
YEARS	AYAMEI	AYAME II	KOSSOU	TAABO	BUYO	GRAH	TOTAL
1952							.0
1953							0,
1954							.0
1955							0,
1956		,					,0
1957							,0
1958							.0
1959	4,581						4,581
1960	58,922					1	58,922
1961	73,40						73,40
1962	90,014						90,014
1963	106,945						106,945
1964	96,012		•				96,012
1965	53,377	88,020					141,397
1966	72,120	136,876				1	208,996
1967	70,204	122,507			ł		192,711
1968	93,978	162,996					256,974
1969	101,535	152,435			1:		253,970
1970	93,997	166,241					260,238
1971	47,274	91,806					139,080
1972	80,550	139,329	6,268				226,147
1973	43,139	80,932	44,011				168,082
1974	77,502	132,530	67,394				277,426
1975	82,957	142,934	156,780				382,671
1976	56,466	94,925	137,354				288,745
1976-77	48,038	87,644	69,832				1,211,427
1977-78	47,013	82,524	74,738		1		305,251
1978-79	48,172	85,690	19,885	301,056			1,544,163
1979-80	105,812	171,717	247,405	744,410			1,716,939
1980-81	77,912	134,317	157,267	\$52,010	738,018		1.844.079
1981-82	74,598	128,275	247,745	549,990	758,721		1,940,827
1982-83	35,683	72,726	120,957	268,870	699,726		1,987,925
1983-84	15,310	47,543	2,265	112,030	172,132	2.015	1,809,358
1984-85	66,779	108,793	60,796	385,097	552,876	1,190	2,011,982
1985-86	54,213	90,322	165,593	413,860	663,423	-	2,059,596
1986-87	29,248	58,518	78,167	312,660	399,085	- ·	2,230,880
1987-88	65,477	122,693	60,568	408,661	558,918	-	2,309,879
1988-89	67,958	117,517	90,645	520,844	716,586	4,585	2,352,837
1989-90	75,907	125,157	169,370	478,725	610,657	4,475	2317.434
1990-91	58,720	102,669	186,172	536,769	399 442	4.243	2,279,870
1991-92	29,039	58,449	127,023	355,045	546,099	-	2,272,381
1992-93	50,421	98,386	86,139	312,996	497,941	-	2,250,689
1993-94	30,697	67,511	74,219	314,986	484,026	-	2,339,182
1994-95	70,406	144,530	90,149	575,324	\$46,367	-	2,593,134
1995-96	83,216	135,147	120,570	570,691	876,347	-	2,767.090
1996-97	67,958	122,167	189,344	636,602	876.836	359	3.009.249
dax.	106 945	171,717	247,745	744,410	876.836	4.585	3,009,249
Aini.	15 310	47 543	2,265	112,030	172,132	359	-
vican 🗌	64,245	111,328	109,641	439,507	611,60	2 \$11	

Table 3.8-8Features and Status of Power Generation/Transmission
and Facilities (10 Pages)



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CHAPTER 9 LAGOONS AND CANALS (with Supplementary explanation)

9.1 Lagoons and Canals

The development of lagoons is one of major distinguished topography in Cote d'Ivoire, which has coastal line of nearly 500 km long. The whole surface area of lagoons becomes approximately 1,400 km² with shoreline of longer than 1,500 km. On the western coast, between Sassandra and Fresco, comparatively small lagoons are seen at some locations. While on the eastern coast, a series of large lagoons extends along the coastal zone, which is nearly 300 km long in total. This 300 km-zone is connected as a continuous waterway, by natural lagoons and some canals.

The general locations of lagoons and canals are shown in Figure. 3.9-1. A series of lagoons and connected canals in the 300 km waterway is briefly explained as follows:

(A) Grand-Lahou lagoon

Grand-lahou lagoon is the smallest one of all, with a total length of 50 km and an area of 190 km^2 , oriented from east to west. It consists of 4 small lagoons including the following:

- Mackey lagoon with 28 km², is the less deep one (2 m maximum)
- Tagba lagoon located at the eastern end of Grand-Lahou lagoon, with 57 km² and maximum depth of 8 m. It flows into the sea through Bandama river mouth.

(B) Ebrie lagoon

Ebrie lagoon, with 566 km^2 , an average width of 7 km and a length of 150 km has its average depth of 4 m. This lagoon is divided into 6 sectors:

- Sector 1 includes two lagoons of Abjin and Potou lagoon with the area of 42 km²; Adjin lagoon with a depth of 10m; but Potou lagoon less than 2 m in depth.
- Sector 2 covers 87 km² from Assinie canal up to the eastern part of Abidjan
- Sector 3 includes all Abidjan and Vridi canal zones. The deepest bottom is from 20 to 25.
- Sector 4 covers the western part of Abidjan (Yopougon) and the Agneby with 107 km2.
- Sectors 5 and 6, located in the western parts, cover 289 km².

(C) Aby lagoon

With a total area of 427 km², Aby lagoon complex is 56 km wide from east to west and 24 km long from north to south, then spreading over along the coastline.

The complex can be divided into 3 sectors:

- Aby lagoon, with 307 km², with an average depth of 4.5m. Bia River flows into this lagoon from the north.
- Tendo lagoon covers 74 km², with an average depth of 2 m.
- Ehy lagoon is very homogenous and essentially consists of high bottoms with an average depth of only 1.5m.

There are four canals connecting lagoons and mainly used for navigation system.

(A) Agneby canal

The Agneby canal has constructed between 1912 and 1918. The length is about 17 km. The canal has been enlarged in 1922 and connected to Ebrie lagoon and Grand-Lahou lagoon.

(B) Groguida canal

This small canal (1 km) connects two elements of Grand-Lahou lagoon. It is the most recent one and deeper (2.5 m) than Agneby canal.

(C) Assinie canal

It connects Ebrie lagoon and Aby Lagoon. It has been opened in 1957. It is 48 km long and between 1.5 and 7 m deep.

(D) Fresco canal

It connects Fresco lagoon and Grand-Lahou canal.

In addition to the above, it is noted that there is one canal constructed for the outlet of Ebrie lagoon at Abidjan: Vridi Canal, which was opened in 1950. The canal is significant as an only large port in Cote d'Ivoire, Abidjan port, is located in the Ebrie lagoon. The Virdi canal is 2.7 km long, 230 m wide, and 12 m deep on an average.

9.2 Navigation Services

The navigation routes are shown in Figures 3.9 - 2 to 3.9 - 4. The navigation is developed in lagoons located along the coast. The major lagoons spread over 300 km covering 12,000 km², i.e., 0.37% of the national territory. This navigation network connects the following three lagoons from the west to the east:

- Grand-Lahou lagoon
- Ebrie lagoon
- Aby lagoon

a)Grand-lahou lagoon complex is the smallest one of all, with a total length of 50 km and an area of 190 km2, oriented from east to west. It consists of 4 small lagoons from west to east namely:

- MACKEY lagoon with 28 km2, is the less deep one (2 m maximum)
- TAGBA lagoon located at the eastern end of Grand-Lahou lagoon, with 57 km2 and a maximum depth of 8 m. it flows into the sea trough Bandama river mouth.

b) Ebrie lagoon complex, with 566 km2, an average width of 7 km and a length of 150 km.
 its average depth is 4 m with some holes near Abidjan city overreaching 20m. this lagoon is divided into 6 sectors:

- the sector 1 includes Abidjan and Potou lagoon on an area of 42 km2; Adjin lagoon with a depth of 10m; Potou lagoon doesn't overreache 2 m depth.
- The sector 2 covers a 87 km2 from Assinie canal up to the eastern part of Abidjan
- The sector 3 includes all Abidjan and Vridi canal zones. The deepest bottoms are from 20 to 25.
- The sector 4 covers the western part of Abidjan (Yopougon) and the Agneby with 107 km2.
- The sectors 5 and 6 cover 289 km2.
- c) Aby lagoon complex

With a total area of 427 km2, Aby lagoon presents two main axes 56 km wide from east to west and 24 km wide from north to south, then spreading over 30 km along the coastline. The complex can be divided into 3 sectors:

- Aby lagoon, with 307 km2, its depth being an average of 4.5m and it is supply by BIA river.
- Tendo lagoon covers 74 km2, with an average depth of 2 m.
- Eby lagoon is very homogenous and essentially consists of high bottoms with an average depth of 1.5m.

This important network receives the main rivers of the country, which are all at least navigable along 50 km from their mouth. This whole river-lagoon constitutes with the interior of the country of the Cavally, Sassandra, Bandama Agneby and Comoe rivers, the river-lagoon network.

It was informed from the Ministry of Transportation that all major rivers are navigable at least 50 km from their mouth. They are the Cavally, Sassandra, Bandama, Agneby and Comoe rivers. However, the river navigation is not carried out at present. The navigation network connecting lagoons and rivers are considered as a future plan.

There are four canals connecting lagoons and used as a part of navigation system.

- Agneby (Assagni) canal:17 km long, Connect Ebrie lagoon and Grand-Lahou lagoon, Opened between 1912-1918
- Groguida canal:1 km long, Connect two parts of Grand-Lahou lagoon
- Assinie canal:48 km long, Connect Ebrie lagoon and Aby Lagoon, Opened in 1957 (The most important traffic has been recorded during the construction of Ayama I and II dams.)
- Fresco canal:Connect Fresco lagoon and Grand-Lahou lagoon, Opened in 1930's

There are mainly three long and middle distance services of navigation as follows:

- Abidjan-Grand Lahou route: Between Asagny and Tiebissou, One passenger boat a day to each direction and tens of ships for carrying goods (fish, logs, etc.) a week.
- Abidjan-Ghana route: Served by 2 ships. Between Abidjan in Ebrie lagoon and Frambo in Aby lagoon (through Bingerville, Grand-Bassam, Moossou, Assinie, Assouinde, Adiake), where Ghana boundary is located closely. This traffic was very important until 1990.Transportation of goods and passengers.
- Frambo-Tiapoum-Adiake route: Midium distance in Aby lagoon, 2 ships , a part of Abidjan-Ghana route

Beside the long and middle distance services, local short distance routes in Abidjan (Abidjan urban routes) are comparatively used actively. Abidjan urban routes have been created to solve the matters of movement of the workers from their living areas to their working places. The major routes are listed as follows:

- Treichville Vridi where is located an industrial zone (From Vridi 385 passengers a day)
- Petit Cocody Plateau which is the Administrative and affairs center of the capital (250 300 passengers a day from each side)
- Tbobo-Doume Plateau
- Locodjro Treichville
- Locodjro Plateau Trechville

It is important to notice that these routes are used by the workers to drop at their working places,

but also by the traders to connect all the different markets to their selling places.

The urban routes in Abidjan are categorized by classification of owners as follows:

- The private small scale owners
- SOTRA and other companies

The private small-scale owners are in charge of tens of routes and are the main competitors of SOTRA. They own thirties of ships in total. Each of them has between one and four ships and their service routes are as follows:

- Blockhauss Biaffra (Treichville)
- Biaffra Vridi Ile Boulay
- Abobo-Doume Treichville Plateau
- Vridi Ako
- Blohorn Zimbabwe
- Locodjro Carena
- Koumassi Mbadon
- Koumassi Ile Desiree

SOTRA Company has 19 ships and operates 3 routes (Abobo-Doume – Plateau – Trecheville) and carries approximately 4.48 million passengers a year (1997).

Banco Lagoon Transportation Company so-called STLB has 8 ships using the routes as follows:

- Locodjro Carena
- Locodjro Treichville
- Abobo-Doume Treichville
- Abobo-Doume Plateau

STLB carries approximately 830 passengers a day.

The navigation through lagoons has been more active in the past due to the reasons as follows:

- The roads network was not well-developed
- The lagoons are very wide, calm, and navigable at any time
- Transportation of heavy or large things is appropriate.

However due to mainly the development of road network, the navigation of these long-medium distance is not active at present.

9.3 Ferry Service

There are 16 public ferry services by road department of Ministry of Infrastructure and Economics as listed as follows:

No.	Name of Ferry Sevice	Name of Water way
Ferry with Moto)r	
A1	Akrou	Ebrie lagoon
A2	Jacqueville	Ebrie lagoon
A3	Grand lahou	Tagba lagoon
A4	Mo blohoua	Bandama River
A5	Bettie	Comoe River
A6	No.5	Ebrie lagoon
Ferry without m	otor	
B1	Prollo	Cavally River
B2	Bin Houye	Nipoue Rver
B3	Bafing	Baffing River
B4	Kanebly	Sssandra River
B5	Marahoue	Marahoue River
B6	Serebou	Comoe River
B7	Toupe	Comoe River
B8	Vonkoro	Black Volta
B9	Kokonou	(No more operation)
B10	Mbaso	Comoe River

The crossing sections of public ferry services are considered as an extension of road. Accordingly, the use of ferry is free of charge.

There are private ferry services in small streams. However, the data for private sector are not available. The private ferry service needs fare, except for the local inhabitants.

9.4 Present Issues of Navigation and Ferry Services

The issues concerning the navigation and ferry services in Cote d'Ivoire are presented as follows:

(A) Water Depth

The depth of lagoons and canals are generally 1.2 m to 3.5 m. Some locations are shallow and difficult to keep required draft for larger boats with more capacity. The sedimentation in lagoons and canals will be increased continuously due to rivers flow into these lagoons.

(B) Water Quality

Each lagoon has only one outlet to the sea and the mouth is mostly narrow. The development of surrounding area causes the increase of waste-water to lagoons. The deterioration of water quality in lagoons is a serious concern. Especially, that of Ebrie lagoon is the location with

high priority concerning the water quality conservation and improvement. For example, the sewage from some areas in Abidjan is directly discharged into the lagoon without treatment.

(C) Decrease of Passengers

The number of passengers for a long-and-mid distance has been decreasing. The development of road network caused less necessity of navigation services. However, the navigation in short distance in Abidjan area is still active. And ferry services also takes important roles at every location.

(D) Non-Operational Period During Rainy Season

Some ferry services are not operational during rainy season. The non-operational period happens usually for four or five months a year at some locations of large rivers.

(E) Maintenance of Ferry Service

Public ferry services seem to have more or less poor maintenance of facilities and boat at some locations. For example, ferry service at Cavally River is not operational at present. A private company now provides the services instead of public one, but with expensive fare. It is not sure why the public services can not maintain the services continuously.

(F) Capacity of Ferry Service

The capacity of ferry service is not enough at some locations. For example, it is usual at Jacqueville that many cars and passengers have to wait for their riding to a boat for a long time. There is only one boat and the speed is very slow to cross the lagoon.



Figure 3.9-1 General Locations of Lagoons and Canals

CHAPTER 10 POPULATION IN BASINS

The population in respective basin is calculated in the following manners:

- (a) The population of respective basin is calculated based on the population of respective Department by 1998 census.
- (b) The population in a Department is converted to the population in a basin in proportion to the area of Department in the basin.
- (c) The area of Department in a basin is obtained from GIS map prepared by JICA Study Team.

The areas and population in respective basin are calculated as summarized in following tables:

- (a) Area of Department divided by Division based on Control Points (Table 3.10-1)
- (b) Area of Division based on Major River Basins, with Area of Department (Table 3.10-2)
- (c) Area of Division based on Major River Basins, Summary (Table 3.10 -3)
- (d) Area and Population Estimate in Major River Basins, Detail (Table 3.10-4)

CP Code	Area Code	New Dent Name	$Area (Km^2)$	Sub-Division	Division	CP No	$A roa (Km^2)$
CI Couc			Area (Km)	Area (Km ²)	Area (Km ²)	CI 110.	Area (Km)
	I / 40	SASSANDRA	428.10	428.10			
I-C1	I-A1	GAGNOA	220.65				
I-C1	I-A1	SAN-PEDRO	149.48				<u>.</u>
I-C1	I-A1	SASSANDRA	1,955.61	1		I	67,610.49
I-C1		SOUBRE	2,903.68	5 229 41		I-C1 I-C2	67,182.40
I-C2	I-A2	GUIGLO	179.68	5,667		I-C2	39,990.04
I-C2	I-A2	ISSIA	63.81		ļ	I-C4	25,933.51
I-C2		SOUBRE	2,158.66	2 402 14		I-C5	15,262.94
I-C3	I-A2	BANGOLO	1,155,50	2,402.14		I-C0 I-C7	0,813.99
I-C3	I-A3	DALOA	837.21	1		I-C8	4,408.14
I-C3	I-A3	DUEKOUE	3,004.44			I-C9	3,084.30
I-C3	I-A3	GUIGLO	2,942.00	1		I-C10	2,423.21
I-C3	I-A3	MAN	372.97	1			
I-C3	I-A3	SOUBRE	528.69	1			
I-C3	I-A3	VAVOUA	320.23	0 649 40			
I-C4	1-A3 1-A4	RIANKOUMA	3 004 49	9,648.40			
I-C4	I-A4	MAN	1,658.69	1			
I-C4	I-A4	SEGUELA	2,546.03	1			
I-C4		TOUBA	2,308.68				
1-04	1-A4 1-A4	VAVOUA	1,132.00	10 670 57			
I-C5	I-A5	ODIENNE	3,513.29	,		1	
I-C5	I-A5	SEGUELA	1,078.25				
I-C5	I-A5	TOUBA	5,163.90	0.755.44			
I-C6	I-A6	BOUAFLE	353.52	9,155.44			
I-C6	I-A6	DALOA	62.32	1			
I-C6	I-A6	GAGNOA	3,980.73	1			
I-C6		ISSIA	641.76	1			
I-C0 I-C6	I-A6	OUME	93.07	1			
I-C6	I-A6	SASSANDRA	877.15	1			
I-C6	I-A6	SINFRA	431.10	1			
I-C6	I-A0	SOUBRE	107.33	6 815 99			
I-C7	I-A7	BOUAFLE	269.82	0,010.99			
I-C7	I-A7	DALOA	3,876.31	1			
I-C7		GAGNOA	91.45	1			
I-C7		ISSIA SEGUELA	2,529.00	4	ļ		
I-C7	I-A/	SOUBRE	933.24	1			
I-C7	I-A7	VAVOUA	4,338.44				
I-C7	I-A/	ZUENOULA	420.29	12 744 82			
I-C8	I-A8	BANGOLO	715.63	12,744.02			
I-C8	I-A8	BIANKOUMA	682.61	1			
I-C8	I-A8	DANANE	342.29	1			
I-C8	I-Ao I-A8	DUEKOUE	2 654 90	4			
1-00	I-A8	INI/AIN	2,007.70	4,408.14			
I-C9	I-A9	BIANKOUMA	1,333.14				
I-C9	I-A9	DANANE	515.77	1			
1-0.7	I-A9	IUUBA	1,433.37	3 084 30			
I-C10	I-A10	ODIENNE	2,423.21	2,00112			
	I-A10			2423.21	(7 (10 40		
	II-A()	CPAND-LAHOU	104.07		07,010.47		
		UKAND-LAHOO	107.07	104.07			
II-C1	II-A1	AGBOVILLE	4.07			II	99,716.78
II-C1		DABOU	435.68	1		ĪI-C1	99,288.68
II-CI II-CI		DIVU GRAND-LAHOU	1,194,63	4		II-C2 II-C3	61 172 33
II-C1	II-A1	JACQUEVILLE	7.39	1		II-C4	37,864.06
II-C1	II-A1	TIASSALE	893.72			II-C5	29,316.25
П.С2		DIVO	441.63	2,617.13		II-C6 II-C7	19,560.81
II-C2 II-C2	II-A2	TIASSALE	917.82	1		II-C7 II-C8	35,397.46
	II-A2			1,359.45		II-C9	24,754.68
II-C3	II-A3	BOUAFLE	1,035.19	1		ĪI-C10	16,028.75
II-C3	II-A3	DIVU GAGNOA	90.09	4		II-C11 II-C12	0,/00.10
II-C3	II-A3	OUME	1,806.72	1		II-C12 II-C13	21,539.45
II-C3	II-A3	SINFRA	1,211.63	1		II-C14	6,786.43
II-C3	II-A3	TIASSALE	277.91	1		ĪI-C15	4,810.02
II-C3	II-A3	VAMOUSSOUKRO	424.70	4		11-010	5,/05.90
11 0.5	II-A3	TAMOODOOLICO	211	5,967.81			
II-C4	II-A4	BEOUMI	2,378.45				
11-C4	II-A4 II-Δ4	BOUAFLE	863.26	1			
II-C4		KATIOLA	27.35				

II-C4	II-A4	MANKONO	1.342.26	1	1		
II-C4	II-A4	SAKASSOU	1,498.15				
II-C4	II-A4	TIEBISSOU	629.10				
II-C4	II-A4	YAMOUSSOUKRO	154.21				
II-C4	II-A4	ZUENOULA	548.15				
		DEGLD G	220.44	8,547.82			
II-C5	II-A5	BEOUMI	230.66				
11-C5	II-A5	BOUAKE	/9.15				
11-C5		KAHOLA	2,783.07				
11-05	II-A5	MANKONO	1,295.02				
11 0.5		MILITICOITO	1,051.71	6 023 21			
II-C6	II-A6	FERKESSEDOUGOU	3.047.65	-,			
II-C6	II-A6	KATIOLA	2,172.28				
II-C6	II-A6	KORHOGO	3,660.52				
	II-A6			8,880.44			
II-C7	II-A/	BOUNDIALI	686.89				
II-C7		FERKESSEDOUGOU	759.58				
II-C/		KORHOGO	4,648.58	6 005 05			
II-C8		AGBOVILLE	12.97	0,093.03			
II-C8		BOCANDA	93.25				
II-C8	II-A8	BONGOUANOU	1.025.70				
II-C8	II-A8	BOUAKE	631.49				
II-C8	II-A8	DIMBOKRO	1,035.31				
II-C8	II-A8	SAKASSOU	375.96				
II-C8	II-A8	TIASSALE	1,246.64				
II-C8	II-A8	TIEBISSOU	1,678.26				
II-C8	II-A8	TOUMODI	2,2/5.94				
II-C8		YAMOUSSOUKRO	9/6.31				
11-C8		YAMOUSSOUKRO	1,290.96	10 642 78			
IL-C9		BOCANDA	3 117 21	10,042.78			
II-C9	II-A9	BONGOLIANOU	1 219 55				
II-C9	II-A9	DAOUKRO	1,938.34				
II-C9	II-A9	DIMBOKRO	529.27				
II-C9	II-A9	MBAHIAKRO	1,750.33				
II-C9	II-A9	YAMOUSSOUKRO	171.23				
	II-A9			8,725.92			
II-C10	II-A10	BOCANDA	52.36				
II-C10	II-ATU	BOUAKE	2,892.28				
II-C10		KATIOLA	3,208.83				
II-C10	II-A10	MBAHIAKRO	1,122.71				
II-C10	II-A10	YAMOUSSOUKRO	234.63				
	II-A10			9,262.65			
II-C11	II-A11	DABAKALA	2,264.18				
II-C11	II-A11	FERKESSEDOUGOU	1,167.07				
II-C11	II-A11	KATIOLA	3,334.85				
11 (112		DOLLAFIE	1 ((2.44	6,766.10			
II-C12	II-A12	DALOA	1,003.44				
II-C12 II-C12		ZUENOULA	909.36				
II-C12		LOLIOOLA	707.50	3 184 90			
II-C13	II-A13	KORHOGO	4.06	-,			
II-C13	II-A13	MANKONO	4,021.57				
II-C13	II-A13	SEGUELA	685.14				
II-C13	II-A13	VAVOUA	417.46				
II-C13	II-A13	ZUENOULA	1,060.83	(100.04			
11 (114		DOUDIDIALI	002.17	6,189.06			
II-C14	II - A I 4	BOUNDIALI	903.17				
II-C14	II = A I 4 II = A I 4	ODIENNE	3,016.02				
II-C14 II-C14		SEGUELA	2 442 80				
11-014		BEGGEEA	2,442.00	6 786 43			
II-C15	II-A15	ODIENNE	388.14	0,700.10			
II-C15	II-A15	SEGUELA	4,421.88				
	II-A15			4,810.018			
II-C16	II-A16	BOUNDIALI	492.65				
II-C16	II-A16	KORHOGO	2,592.66				
II-C16	II-A16	MANKONO	668.64	2 5 5 2 0 5			
				3,753.95	00 716 78		
	II III—A 1	APENGOUPOU	572.64		99,/10./8		
III-C1		ABOISSO	40.87				
III-C1		ADIAKE	0.66				
III-C1	III-A1	ADZOPE	436.29				
III-C1	III-A1	ALEPE	1,195.93				
III-C1	III-A1	GRAND-BASSAM	1,090.55				
	III-A1			3,336.93			
III-C2	III-A2	ABENGOUROU	4,115.47				
III-C2	III-A2	ADZOPE	978.23			III	57,281.2
III-C2	III-AZ	AGNIBILEKROU	1,047.72			III-CI	57,281.2
III-C2		DAOUKRO	1,008.80			III-C2	28,944.2
III-C2		TANDA	1,800.80				26,820.8
III-C2		TANDA	301.37	9 252 39		III-C4	5 667 9
III-C3	III-A3	BONDOUKOU	4 617 51	,252.57		III-C5	5 864 9
III-C3	III-A3	BOUNA	1,576.00			iii co	2,001.9
III-C3	III-A3	DABAKALA	2,337.69				
III-C3	III-A3	DAOUKRO	219.26				
III-C3	III-A3	MBAHIAKRO	1,778.34				

III-C3	III-A3	TANDA	2,033.66			
III C4		DONDOLIKOU	222.07	12,562.45		
III-C4 III-C4	III-A4 III-A4	BONDOUKOU	11 463 42			
III-C4	III-A4	DABAKALA	1,890.09			
III-C4	III-A4	FERKESSEDOUGOU	6,909.99			
	III-A4	DOUBLI	146.00	20,596.47		
III-C5	III-A5 III-A5	BOUNA	5 341 14			
III-C5	III-A5	KORHOGO	179.95			
	III-A5			5,667.98		
III-C6	III-A6	AGNIBILEKROU	805.32			
III-C6		BONDOUKOU	1,004.89			
III-C0		TANDA	4,054.77	5,864,99		
	Ш				57,281.20	
	IV-AU	TABOU	1,509.80	1 500 00		
IV C1	IV-Δ1	GUIGLO	6 737 90	1,509.80		
IV-C1 IV-C1	IV-A1	SAN-PEDRO	209.06			
IV-C1	IV-A1	SOUBRE	1,576.87			IV 16,874.90
IV-C1	IV-A1	TABOU	3,542.07			IV-C1 15,365.10
IV-CI		TOULEPLEU	402.77	12 468 68		IV-C2 2,896.42
IV-C2	IV-A2	BANGOLO	256.34	12,400.00		
IV-C2	IV-A2	DANANE	1,732.86			
IV-C2	IV-A2	GUIGLO	698.34			
IV-C2 IV-C2	IV-A2	MAN TOULEPLEU	121.61			
11-02	IV-A2	. JOLLI LLU	07.27	2,896.42		
					16,874.90	
	V-A0	DANANE	2,010.30			V 0.001.00
	V-AU V-AU	TOULEPLEU	321.66	2,331,96		v 2,331.96
	V			2,551.70	2,331.96	
	VI-A01	TENGRELA	469.35			
		ODIENNE	4 665 96	469.35		VI 22.603.73
	VI-A02	ODIENNE	4,005.90	4.665.96		VI-C1 7.354.13
VI-C1	VI-A1	BOUNDIALI	131.96	,		VI-C2 5,790.24
VI-C1	VI-A1	KORHOGO	205.99			VI-C3 4,381.43
VI-CI	VI-AI	TENGRELA	1,225.94	1 563 89		VI-C4 4,242.55 VI-C5 1,490.30
VI-C2	VI-A2	BOUNDIALI	4,227.80	1,505.07		VI-C5 1,470.50
VI-C2	VI-A2	KORHOGO	109.91			
VI-C2	VI-A2	ODIENNE	1,452.53	5 700 24		
VI-C3	VI-AZ	BOUNDIALI	1 511 83	5,790.24		
VI-C3	VI-A3	ODIENNE	2,295.04			
VI-C3	VI-A3	TENGRELA	574.57			
VI C4	VI-A3	ODIENNE	4 242 55	4,381.43		
VI-C4	VI A4	ODIENNE	4,242.33	4,242,55		
VI-C5	VI-A5	ODIENNE	1,490.30			
	VI-A5			1,490.30	22 602 72	
	VII-AU1	BONDOUKOU	3 889 51		22,005.75	
	VII-A01	BOUNA	1,091.66			
	VII-A01			4,981.17		
		BOUNA	125.88	125.00		VII 12,549.87 VII C1 2,006.67
	VII-A03	BOUNA	3.863.70	123.88		VII-C1 2,090.67 VII-C2 1.482.45
	VII-A03		2,005.70	3,863.70		1,102.10
VII-C1	VII-A1	BOUNA	2,096.67	2 004 45		
VII-C2		BOUNA	1 482 45	2,096.67		
, 11 02	VII-A2		1,102.43	1,482.45		
	VII				12,549.87	
		ABOISSO	862.75			VIII 6027 72
	VIII AUT	ADIANE	500.07	1,223 41		VIII 0,837.73 VIII-C1 6.837.73
	VIII-A02	ADIAKE	174.53			VIII-C2 3,155.05
	VIII-A02	GRAND-BASSAM	168.76			VIII-C3 2,452.15
VIII-C1		ABOISSO	974 22	343.28		VIII-C4 235.93
VIII-C1	VIII-A1	ADIAKE	1,178.53			
VIII-C1	VIII-A1	GRAND-BASSAM	13.23			
VIII C2		ABOISSO	651.40	2,115.99		
VIII-C2	VIII-A2	GRAND-BASSAM	051.43 51.47			
	VIII-A2		51.17	702.90		
VIII-C3	VIII-A3	ABENGOUROU	454.68			
VIII-C3		ABUISSU GRAND-BASSAM	1,759.70			
viii=C5	VIII-A3		1.05	2,216.22		
VIII-C4	VIII-A4	ABOISSO	235.93	,		
	VIII-A4			235.93	681771	
	IX-AU	ABIDJAN	1,368.32		0,057.75	
	IX-A0	AGBOVILLE	3.38			
	IX-A0	ALEPE	163.35			177 1 2 4 4 4 4 1 4
	IX-AU	DABOU	1,180.92			IX 15,988.42

	IX-A0	GRAND-BASSAM	99.01	1		IX-C1 4,413.46
	IX-A0	GRAND-LAHOU	217.53			IX-C2 3,820.92
	IX-A0	JACQUEVILLE	737.61			IX-C3 1,363.04
	IX-AU			3,770.12		IX-C4 7,360.75
IX-CI		ABIDJAN	423.17			IX-C5 4,877.94
IX-CI		AGBOVILLE	94.56			IX-C6 444.10
IX-CI		ALEPE	/4.80	502 52		
IX C2	$1X - \Delta 2$	ARIDIAN	114.84	392.33		
IX-C2	1X-A2	ADZOPE	1 160 26			
IX-C2	IX-A2	AGBOVILLE	533.61			
IX-C2	IX-A2	ALEPE	649.18			
	IX-A2			2,457.89		
IX-C3	IX-A3	ADZOPE	1,270.62			
IX-C3	IX-A3	ALEPE	92.42			
	IX-A3			1,363.04		
IX-C4	IX-A4	ABIDJAN	170.12			
IX-C4	IX-A4	AGBOVILLE	2,085.98			
IX-C4		DABOU	134.67			
IX-C4		HASSALE	92.03	2 492 90		
IV C5		ADZORE	1 272 28	2,482.80		
IX-C5		AGBOVILLE	1,572.58			
IX-C5	IX-A5	BONGOUANOU	2 339 35			
IX-C5	IX-A5	TIASSALE	13.93			
	IX-A5			4,877.94		
IX-C6	IX-A6	DABOU	444.10	,		
	IX-A6			444.10		
	IX				15,988.42	
	X-A01	DIVO	1,167.20			
	X-A01	GRAND-LAHOU	329.47			
	X-A01	DULIO	111.07	1,496.67		
			114.97			
	X-AUZ	SASSANDKA	493.43	608 30		V 12 441 42
X-C1	X-A1	DIVO	2 002 01	008.59		X-C1 2 192 09
X-C1	X-A1	GRAND-LAHOU	190.08			$X = C^2$ 4 701 60
A CI	X-A1		190.00	2,192,09		X-C3 2.112.24
X-C2	X-A2	DIVO	2,848.14	_,		X-C4 1,330.43
X-C2	X-A2	GAGNOA	49.34			
X-C2	X-A2	LAKOTA	1,346.36			
X-C2	X-A2	OUME	457.76			
	X-A2			4,701.60		
X-C3	X-A3	DIVO	833.46			
X-C3	X-A3	GAGNUA	65.95			
X-C3	X-Δ3		1,118.98			
A-C3	X-A3	SASSANDRA	95.80	2 112 24		
X-C4	X-A4	DIVO	555 19	2,112.21		
X-C4	X-A4	SASSANDRA	775.24			
	X-A4			1,330.43		
	Х				12,441.43	
	XI-A01	SAN-PEDRO	1,552.64			
	XI-A01	SASSANDRA	342.61			
	XI-A01			1,895.26		
		SAN-PEDRO	562.75			XI 7,963.59
		TABOU	269.40	922.15		XI-C1 3,320.70
XI-C1		SAN-PEDRO	2 988 74	032.13		XI-C2 1,200.42 XI-C3 649.07
XI-C1	XI-A1	SOUBRE	331.96			AI 05 019.07
	XI-A1		551.90	3,320,70		
XI-C2	XI-A2	SAN-PEDRO	1,050.06			
XI-C2	XI-A2	TABOU	216.36			
	XI-A2			1,266.42		
XI-C3	XI-A3	SAN-PEDRO	335.39			
XI-C3	XI-A3	TABOU	313.69			
	XI-A3			649.07	7 042 50	
	ΛI	Grand Total	377 700 11	377 700 11	7,963.39	
		Area: Based on GIS Man pr	enared by IICA Stu	dy Team	522,200.11	
		muca, Dascu Oli Olis Ivido Di	COMENDY JICA SIL	uv i caiil.		

Ref. No.	Sub-basin Code	New Department Code	Department Name	Area (km ²)
10	I-MR	9	BANGOLO	848.50
10	I-MR	11	BIANKOUMA	324.15
10	I-MR	21	DALOA	837.21
10	I-MR	26	DUEKOUE	2,295.66
10	I-MR	28	GAGNOA	220.65
10	I-MR	31	GUIGLO	1,091.32
10	I-MR	32	ISSIA	564.09
10	I-MR	37	MAN	866.56
10	I-MR	43	SAN-PEDRO	149.48
10	I-MR	44	SASSANDRA	2,244.51
10	I-MR	45	SEGUELA	2,571.11
10	I-MR	47	SOUBRE	5,631.06
10	I-MR	53	TOUBA	4,266.57
10	I-MR	56	VAVOUA	1,472.89
Sub-total	I-MR			23,383.75
11	I-T1	15	BOUAFLE	353.51
11	I-T1	21	DALOA	62.32
11	I-T1	28	GAGNOA	3,980.73
11	I-T1	32	ISSIA	641.76
11	I-T1	36	LAKOTA	269.02
11	I-T1	41	OUME	93.07
11	I-T1	44	SASSANDRA	1,016.34
11	I-T1	46	SINFRA	431.10
11	I-T1	47	SOUBRE	156.10
Sub-total	I-T1			7,003.94
12	I-T2	15	BOUAFLE	269.82
12	I-T2	21	DALOA	3 876 31
12	I-T2	28	GAGNOA	91 45
12	I-T2	32	ISSIA	2 516 13
12	I-T2	45	SEGUELA	286.22
12	I-T2	47	SOUBRE	844 43
12	I-T2	56	VAVOUA	4 338 54
12	I-T2	58	ZUENOULA	420.29
Sub-total	I-T2		Lohitoohit	12 643 18
13	LT3	9	BANGOLO	1 022 64
13	I-T3	11	BIANKOUMA	682.64
13	I-T3	22	DANANE	342.41
13	I-T3	22	DUFKOUF	721 48
13	I-T3	31	GUIGLO	2 030 35
13	I-T3	37	MAN	2,654.90
Sub-total	I-T3	5,		7 454 42
1/	Г 1 <i>5</i> І_Т/	11	BIANKOUMA	201 10
14	I-14 I_T/	27	MAN	091.10
14 Sub_total	<u>1-14</u> І_ТЛ	57	1017310	2 056 20
500-101al	1-14 IT	11		2,030.29
15	1-13 L T5		DANANE	5,053.40
15	1-13 L T5	52		0.01
15	1-13	33	TOUBA	2,232.81
Sub-total	1-15			5,292.23
16	I-16	40	ODIENNE	5,936.49
16	1-16	45	SEGUELA	1,053.17
16	1-16	53	TOUBA	2,208.60
Sub-total	1-16			9,198.26
Total	Ι			67,032.07
20	II-MR	6	AGBOVILLE	4.07
20	II-MR	10	BEOUMI	2,609.11
20	II-MR	15	BOUAFLE	1,255.31

Table 3.10-2 Area of Division based on Major River Basins, with Area of Department

20	II-MR	16	BOUAKE	1,186.04
20	II-MR	18	BOUNDIALI	331.35
20	II-MR	20	DABOU	435.64
20	II-MR	25	DIVO	619.37
20	II-MR	27	FERKESSEDOUGOU	3,807.24
20	II-MR	28	GAGNOA	138.11
20	II-MR	30	GRAND-LAHOU	1.298.69
20	II-MR	33	JACOUEVILLE	7.39
20	II-MR	34	KATIOLA	4 699 90
20	II-MR	35	KORHOGO	5 078 83
20	II-MR	38	MANKONO	2 905 89
20	II-MR	41	OUME	1 806 72
20		42	SAKASSOU	1,000.72
20		46	SINERA	1 182 06
20		51	TIASSALE	1,182.00
20		52	TIEDISCOL	1,931.14
20		52	TIEBISSOU	629.10
20	II-MK	55		424.76
20	II-MR	58	ZUENULLA	548.15
20	II-MR	5/1	YAMOUSSOUKRO	1,131.62
Sub-total	II-MR			33,548.62
21	II-T1	6	AGBOVILLE	12.97
21	II-T1	12	BOCANDA	3,262.82
21	II-T1	14	BONGOUANOU	2,245.25
21	II-T1	16	BOUAKE	3,523.78
21	II-T1	19	DABAKALA	5,532.99
21	II-T1	23	DAOUKRO	1,938.40
21	II-T1	24	DIMBOKRO	1,564.58
21	II-T1	27	FERKESSEDOUGOU	1.167.07
21	II-T1	34	KATIOLA	4,457,56
21	II-T1	39	MBAHIAKRO	3 442 13
21	II-T1	42	SAKASSOU	375.96
21	II-T1	51	TIASSALE	1 384 98
21	II-T1	52	TIFBISSOU	1,501.90
21	II TI II-T1	55	TOUMODI	2 275 94
21	II-T1 II-T1	571	VAMOUSSOUKRO	976.31
21	II-11 II T1	572	VAMOUSSOUKRO	1 606 87
21 Sub total		512	TAMOUSSOUKKO	1,090.87
Sub-total	II-11 IL T2	1.5		33,333.87
22	II-12 II-72	15	BOUAFLE	2,306.57
22	II-12	18	BOUNDIALI	903.17
22	<u>II-T2</u>	21	DALOA	612.10
22	<u>II-T2</u>	35	KORHOGO	4.06
22	II-T2	38	MANKONO	7,037.72
22	II-T2	40	ODIENNE	812.57
22	II-T2	45	SEGUELA	7,549.82
22	II-T2	46	SINFRA	29.57
22	II-T2	56	VAVOUA	417.46
22	II-T2	58	ZUENOULA	1,970.19
Sub-total	II-T2			21,643.24
23	II-T3	18	BOUNDIALI	413.39
23	II-T3	34	KATIOLA	282.78
23	II-T3	35	KORHOGO	3.621.20
23	II-T3	38	MANKONO	739 72
Sub-total	IL-T3			5 057 00
540-101ai	п-т <i>у</i> П т <i>і</i>	25	KORHOGO	1 561 14
24	11-14 П т4	33		1,301.14
Sub-total	11-14 IL 775	10	DOUDIDIALI	1,561.14
25	II-15 II-75	18	BOUNDIALI	434.80
25	11-15	35	KURHUGU	1,936.20
Sub-total	II-T5			2,371.00
Total	II			99,716.96

30	III-MR	1	ABENGOUROU	2,288.34
30	III-MR	3	3 ABOISSO	
30	III-MR	4	ADIAKE	0.66
30	III-MR	5	ADZOPE	1,409.66
30	III-MR	7	AGNIBILEKROU	691.93
30	III-MR	8	ALEPE	1,195.93
30	III-MR	13	BONDOUKOU	1,484.38
30	III-MR	14	BONGOUANOU	1.008.80
30	III-MR	17	BOUNA	3 921 01
30	III-MR	19	DABAKALA	1 199 39
30	III-MR	23	DAOUKRO	2 020 06
30	III_MR	23	FERKESSEDOLIGOLI	4 345 38
30		20	GPAND BASSAM	1,000,55
30		29	MDAHIAVDO	1,090.33
30		40		1,776.51
50		49	TANDA	774.02
Sub-total	III-MR			23,249.27
31	III-T1	1	ABENGOUROU	1,684.98
31	III-T1	7	AGNIBILEKROU	313.27
Sub-total	III-T1			1,998.25
32	III-T2	1	ABENGOUROU	714.80
32	III-T2	5	ADZOPE	4.87
Sub-total	III-T2			719.66
33	III-T3	7	AGNIBILEKROU	847 84
33	III-T3	13	BONDOLIKOLI	1 004 90
33		<u> </u>	TANDA	4 258 45
Sub total			IANDA	4,230.43
Sub-total	111-15	12	DONDOLIKOU	0,111.19
34	111-14	13	BONDOUKOU	3,133.13
34	111-14	17	BOUNA	539.25
34	III-T4	49	TANDA	1,357.33
Sub-total	III-T4			5,029.71
35	III-T5	19	DABAKALA	1,224.82
Sub-total	III-T5			1,224.82
36	III-T6	19	DABAKALA	1,803.61
36	III-T6	27	FERKESSEDOUGOU	1,387.00
Sub-total	III-T6			3,190,60
37	III-T7	13	BONDOLIKOLI	332.97
37		17	BOUNA	2 070 54
37		27	FERKESSEDOLIGOLI	2,070.54
Sub total		21	I LIKESSEDOUGUU	2 412 10
300-101a1		17	DOUNIA	2,412.10
38	111-18	1/	BOUNA	5,646.48
38	111-18	27	FERKESSEDOUGOU	3.27
Sub-total	111-18			5,649.74
39	III-T9	17	BOUNA	0.46
39	III-T9	27	FERKESSEDOUGOU	1,775.98
Sub-total	III-T9			1,776.45
39A	III-T10	17	BOUNA	1,008.55
39A	III-T10	27	FERKESSEDOUGOU	0.92
Sub-total	III-T10			1,009.46
39R	III_T11	27	FERKESSEDOUGOU	4 730 04
39R	III-T11	35	KORHOGO	179 95
Sub-total	III_T11	55		1 000 00
Total				7 ,209.20
10121		0	DANCOLO	37,201.22
40		9	BANGULU	256.34
40	IV-MR	11	BIANKOUMA	68.88
40	IV-MR	22	DANANE	2,242.50
40	IV-MR	31	GUIGLO	5,064.90
40	IV-MR	37	MAN	121.61
40				
40	IV-MR	48	TABOU	2,756.77

Sub-total	IV-MR			11,001.04
41	IV-T1	31	GUIGLO	1,148.98
41	IV-T1	43	SAN-PEDRO	209.06
41	IV-T1	47	SOUBRE	1,576.87
41	IV-T1	48	TABOU	1,486.24
Sub-total	IV-T1			4,421.16
42	IV-T2	31	GUIGLO	1,222.36
Sub-total	IV-T2			1,222.36
Total	IV			16,644.56
50	V-MR	22	DANANE	1,036.48
50	V-MR	54	TOULEPLEU	321.66
Sub-total	V-MR			1,358.14
51	V-T1	22	DANANE	973.82
Sub-total	V-T1			973.82
Total	V			2,331.96
60	VI-BA	40	ODIENNE	1.355.54
60	VI-BA	50	TENGRELA	275.40
Sub-total	VI-BA			1,630.94
61	VI-T1	18	BOUNDIALI	4.359.76
61	VI-T1	35	KORHOGO	315.89
61	VI-T1	40	ODIENNE	1,452.53
61	VI-T1	50	TENGRELA	1,419.89
Sub-total	VI-T1			7,548.08
62	VI-T2	18	BOUNDIALI	1,511.83
62	VI-T2	40	ODIENNE	1,782.37
62	VI-T2	50	TENGRELA	574.57
Sub-total	VI-T2			3,868.76
63	VI-T3	40	ODIENNE	1,121.61
Sub-total	VI-T3			1,121.61
64	VI-T4	40	ODIENNE	5,765.46
Sub-total	VI-T4			5,765.46
65	VI-T5	40	ODIENNE	2,668,90
Sub-total	VI-T5	-		2.668.90
Total	VI			22,603,75
70	VII-BA	13	BONDOUKOU	1 511 65
70	VII-BA	17	BOUNA	3.304.21
Sub-total	VII-BA	_ ,		4.815.86
71	VII-T1	17	BOUNA	1 511 38
Sub-total	VII-T1		200111	1 511 38
72	VII-T2	17	BOUNA	1 482 45
Sub-total	VII-T2	1,	Doorni	1 482 45
73	VII-T3	17	BOUNA	2 096 66
Sub-total	VII-T3	1/	BOOTHI	2,090.00
74	VII_T/	12	BONDOLIKOU	2,070.00
74	VII-14 VII-T4	17	BOUNA	2,377.00
Sub-total	VII-T4	1/	DUUIM	263.05
Total				12 5/10 85
80		3	ABOISSO	02/ 13
80	VIII_CA	<u> </u>	ADIAKE	1 252 05
80	VIII-CA	29	GRAND-BASSAM	1,555.05
Sub-total	VIII-CA	2)		2 459 07
81	VIII-M1	1	ABENGOUROU	<u>2,</u> ¬57.07 <u>454</u> 68
81	VIII-M1	3	ABOISSO	2 647 06
81	VIII-M1	29	GRAND-BASSAM	53 31
Sub-total	VIII-M1	_/		3 155 05
87	VIII-M2	3	ABOISSO	862.61
82	VIII-M2	4	ADIAKE	360.67
Sub-total	VIII-M2	۰ ۱		1 223 27
540 10141	7 111 - 1714			1,223.27

Total	VIII			6,837.38
90	IX-CA	2	ABIDJAN	1,400.85
90	IX-CA	6	AGBOVILLE	33.85
90	IX-CA	8	ALEPE	208.16
90	IX-CA	20	DABOU	816.60
90	IX-CA	29	GRAND-BASSAM	99.01
90	IX-CA	30	GRAND-LAHOU	217.53
90	IX-CA	33	JACQUEVILLE	737.61
Sub-total	IX-CA			3,513.60
91	IX-M1	2	ABIDJAN	528.91
91	IX-M1	5	ADZOPE	1,343.16
91	IX-M1	6	AGBOVILLE	3,212.75
91	IX-M1	14	BONGOUANOU	2,339.36
91	IX-M1	20	DABOU	943.15
91	IX-M1	51	TIASSALE	105.92
Sub-total	IX-M1			8,473.24
92	IX-M2	2	ABIDJAN	146.69
92	IX-M2	5	ADZOPE	2,460.09
92	IX-M2	6	AGBOVILLE	623.21
92	IX-M2	8	ALEPE	771.60
Sub-total	IX-M2			4,001.59
Total	IX			15,988.43
A10	X-CA	25	DIVO	1,095.66
A10	X-CA	30	GRAND-LAHOU	311.49
A10	X-CA	44	SASSANDRA	493.43
Sub-total	X-CA			1,900.59
A11	X-M1	25	DIVO	3,015.24
A11	X-M1	28	GAGNOA	49.34
A11	X-M1	36	LAKOTA	1,346.36
A11	X-M1	41	OUME	457.80
Sub-total	X-M1			4,868.74
A12	X-M2	25	DIVO	2,021.42
A12	X-M2	30	GRAND-LAHOU	208.05
Sub-total	X-M2			2,229.48
A13	X-M3	25	DIVO	833.46
A13	X-M3	28	GAGNOA	65.92
A13	X-M3	36		1,118.97
Al3	X-M3	44	SASSANDRA	93.86
Sub-total	X-M3			2,112.20
Al4	X-M4	25		555.19
Al4	X-M4	44	SASSANDRA	//5.24
Sub-total	X-M4			1,330.43
Total				12,441.43
A20	XI-CA	43	SAN-PEDRO	890.36
A20	XI-CA	44	SASSANDRA	192.43
A20	XI-CA	48	TABOU	272.04
Sub-total	XI-CA	10		1,354.83
A21	XI-MI	43	SAN-PEDRO	3,060.97
A21	XI-MI	47	SOUBRE	331.96
Sub-total	XI-MI	10		3,392.93
A22	XI-M2	43	SAN-PEDRO	1,010.88
A22	X1-M2	44	SASSANDRA	150.18
Sub-total	XI-M2			1,161.06
A23	XI-M3	43	SAN-PEDRO	1,050.06
A23	X1-M3	48	TABOU	217.28
Sub-total	XI-M3			1,267.34
A24	XI-M4	43	SAN-PEDRO	477.47
A24	XI-M4	48	TABOU	312.76

Sub-total	XI-M4			790.23
A25	XI-M5	48	TABOU	806.11
Sub-total	XI-M5			806.11
Total	XI			8,772.50
			Grand Total	322,200.11

Note: The Area (km²) is based on the division of GIS Map prepared by the JICA Study Team.

Table	3.10-3	Area o	f Division	based	on l	Major	River	Basins
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Ref. No.	Division Code	Basin/Division Name	Sub-basin/Sub-division Name	Area (km ²)
1	I-MR	Sassandra*	Main Stream Remaining Area	23,383.75
2	I-11 I T2	Sassandra*	Labo	12 643 18
4	I-T2 I-T3	Sassandra*	Nzo	7 454 42
5	I-T4	Sassandra*	Kouin	2,056.29
6	I-T5	Sassandra*	Bafing	5,292.23
7	I-T6	Sassandra*	Boa	9,198.26
	I	Sassandra*		67,032.07
8	II-MR	Bandama	Main Stream Remaining Area	33,548.62
9	II-11 II_T2	Bandama	IN ZI Marahoue	21 643 24
10	II-T2 II-T3	Bandama	Bou	5 057 09
12	II-T4	Bandama	Solomougou	1,561.14
13	II-T5	Bandama	Badenou	2,371.00
	II	Bandama		99,716.96
14	III-MR	Comoe	Main Stream Remaining Area	23,249.27
15	III-11 III-7	Comoe	Manzan	1,998.25
10	<u>III-12</u> III_T3	Comoe	Beki	6 111 19
17	III-15 III-T4	Comoe	Diore	5 029 71
19	III-T5	Comoe	Segbono	1,224.82
20	III-T6	Comoe	Kinkene	3,190.60
21	III-T7	Comoe	Kongo	2,412.10
22	III-T8	Comoe	Iringou	5,649.74
23	III-T9	Comoe	Kolonkoko	1,776.45
24	III-110 III T11	Comoe	Bawe	1,009.46
23		Comoe	Leiaba	4,909.98
26	IV-MR	Cavally	Main Stream Remaining Area	11.001.04
27	IV-T1	Cavally	Hane	4,421.16
28	IV-T2	Cavally	N'ce	1,222.36
	IV	Cavally		16,644.56
29	V-MR	Nuon**	Main Stream Remaining Area	1,358.14
30	V-11	Nuon**	Boang	973.82
31	VI-BA	Niger	Boundary Areas	2,551.90
32	VI-DA VI-T1	Niger	Bagoe	7 548 08
33	VI-T2	Niger	Kankelaba/Mahandiabani	3,868.76
34	VI-T3	Niger	Degou	1,121.61
35	VI-T4	Niger	Baoule	5,765.46
36	VI-T5	Niger	Sankarani/Kourou Kele	2,668.90
27		Niger	Devendence Annua	22,603.75
37	VII-BA VII-T1	Black Volta	Koulda	4,815.80
39	VII-T2	Black Volta	Kolodio	1 482 45
40	VII-T3	Black Volta	Bineda	2,096.66
41	VII-T4	Black Volta	Kohodio	2,643.50
	VII	Black Volta		12,549.85
42	VIII-CA	Bia and Others	Coastal Area	2,459.07
43	VIII-M1	Bia and Others	Bia	3,155.05
44		Bia and Others	1 8110	6.837.38
45	IX-CA	Agneby and Others	Coastal Area	3.513.60
46	IX-M1	Agneby and Others	Agneby	8,473.24
47	IX-M2	Agneby and Others	Me	4,001.59
	IX	Agneby and Others		15,988.43
48	X-CA	Boubo and Others	Coastal Area	1,900.59
49	X-M1	Boubo and Others	Boubo	4,868.74
50	A-M2 X_M2	Boubo and Others	U0 Niouniourou	2,229.48
52	X-M4	Boubo and Others	Bolo	1 330 43
52	X	Boubo and Others		12,441,43
53	XI-CA	San Pedro and Others	Coastal Area	1,354.83
54	XI-M1	San Pedro and Others	San Pedro	3,392.93
55	XI-M2	San Pedro and Others	Brime	1,161.06
56	XI-M3	San Pedro and Others	Niero/Nero	1,267.34
57	XI-M4 VI M5	San Pedro and Others	Dodo	/90.23
38		San Pedro and Others	1 a000	8 772 50
l	Total	Sur route und Others		322,200,11
L.	Note	* : Sassandra River is called Fere	edougouba River in the upper reach.	,=00.11

* : Sassandra River is called Feredougouba River in the upper reach. ** : Nuon River is also called Cestos River or Nipoue River.

The Area (km²) is based on the division of GIS Map prepared by the JICA Study Team.

i		1	I			Ratio of	Loral	1
					D A C			D 1 / · · ·
				,	Department	Dept. Area	Population in	Population in
Ref. No.	Sub-basin Code	New Department Code	Department Name	Area (km²)	(km2)	in Basin	Department	Basin
10	I-MR	9	BANGOLO	848.50	2,127	0.399	133,711	53,340
10	I-MR	11	BIANKOUMA	324.15	5.020	0.065	122,626	7,918
10	I-MR	21	DALOA	837.21	5.388	0.155	522,430	81,178
10	I-MR	26	DUEKOUE	2 295 66	3 017	0.761	102 005	146.851
10	I-MD	20	CACNOA	2,293.00	3,017	0.701	260.001	140,001
10	I-MK	28	GAGNOA	220.03	4,343	0.049	369,091	17,918
10	I-MR	31	GUIGLO	1,091.32	10,557	0.103	255,883	26,452
10	I-MR	32	ISSIA	564.09	3,722	0.152	263,799	39,980
10	I-MR	37	MAN	866.56	4,808	0.180	361,505	65,155
10	I-MR	43	SAN-PEDRO	149.48	6,848	0.022	417,554	9,114
10	I-MR	44	SASSANDRA	2.244.51	4,966	0.452	206.346	93,263
10	I-MR	45	SEGUELA	2 571 11	11 460	0.224	170 924	38 348
10	I MD	45	SOURCE	5 621 06	8 5 4 0	0.650	625 266	110 070
10	I-MIK	4/	SOUBRE	3,031.00	8,340	0.639	033,200	418,878
10	I-MR	53	TOUBA	4,266.57	8,707	0.490	137,815	67,532
10	I-MR	56	VAVOUA	1,472.89	6,228	0.236	287,655	68,029
Sub-total	I-MR			23,383.75				1,133,956.09
11	I-T1	15	BOUAFLE	353.51	4,185	0.084	232,429	19.633
11	I-T1	21	DALOA	62.32	5 388	0.012	522 430	6.043
11	I-11 I T1	21	GAGNOA	3 080 73	4 545	0.012	360,001	272 768
11	I-11	20	UAGNOA	5,960.75	4,545	0.870	309,091	525,208
11	I-11	32	ISSIA	641.76	3,722	0.172	263,799	45,485
11	1-11	36	LAKOTA	269.02	2,734	0.098	148,087	14,571
11	I-T1	41	OUME	93.07	2,358	0.039	177,703	7,014
11	I-T1	44	SASSANDRA	1,016.34	4,966	0.205	206,346	42,231
11	I-T1	46	SINFRA	431.10	1.643	0.262	169.588	44.497
11	I-T1	47	SOUBRE	156.10	8 540	0.018	635 266	11 612
Sub total	I T1	.,		7 002 04	0,010	0.010	000,200	51/ 252 20
Sub-total	1-11	1.5	DOLLAFIE	7,003.94	4 10 -	0.073	000 400	514,555.58
12	1-12	15	BOUAFLE	269.82	4,185	0.064	232,429	14,985
12	I-T2	21	DALOA	3,876.31	5,388	0.719	522,430	375,853
12	I-T2	28	GAGNOA	91.45	4,545	0.020	369,091	7,426
12	I-T2	32	ISSIA	2,516.13	3,722	0.676	263,799	178,332
12	I-T2	45	SEGUELA	286.22	11 460	0.025	170 924	4 269
12	LT2	47	SOUBRE	844.43	8 540	0.099	635,266	62.815
12	I T2	56	VAVOUA	4 229 54	6 220	0.607	297.655	200.386
12	1-12 L T2	50		4,556.54	0,228	0.097	267,033	200,380
12	1-12	58	ZUENOULA	420.29	2,938	0.143	150,160	21,481
Sub-total	I-T2			12,643.18				865,547.65
13	I-T3	9	BANGOLO	1,022.64	2,127	0.481	133,711	64,287
13	I-T3	11	BIANKOUMA	682.64	5.020	0.136	122,626	16.675
13	I-T3	22	DANANE	342.41	4 601	0.074	309 725	23.050
13	L-T3	26	DUEKOUE	721.48	3 017	0.230	102 005	46 152
13	I-13 I T2	20	CUICLO	2 020 25	10,557	0.237	255 002	40,152
13	I-13	31	GUIGLO	2,030.35	10,557	0.192	255,883	49,212
13	1-13	37	MAN	2,654.90	4,808	0.552	361,505	199,618
Sub-total	I-T3			7,454.42				398,993.75
14	I-T4	11	BIANKOUMA	891.18	5,020	0.178	122,626	21,769
14	I-T4	37	MAN	1.165.11	4,808	0.242	361,505	87,602
Sub total	L T/	<u>,</u>		2 056 20	.,			100 371 70
3u0-totai	I-14	11	DIANKOUNAA	2,050.29	5.020	0.000	122 (2)	74.597
15	1-13	11	BIAINKOUMA	5,055.40	3,020	0.608	122,020	/4,38/
15	1-15	22	DANANE	6.01	4,601	0.001	309,725	405
15	I-T5	53	TOUBA	2,232.81	8,707	0.256	137,815	35,341
Sub-total	I-T5			5,292.23				110,332.79
16	I-T6	40	ODIENNE	5 936 49	20.892	0.284	219.429	62.351
16	I-T6	45	SEGUELA	1 053 17	11 460	0.092	170 924	15 708
16	I_T6	53	TOUBA	2 208 40	§ 707	0.072	127 915	2/ 050
10 Cult 4 1	1-10 L TZ	55	IUUDA	2,200.00	0,/0/	0.234	157,013	112 017 70
Sub-total	1-10			9,198.26				113,016.79
Total	I			67,032.07				3,245,572.25
20	II-MR	6	AGBOVILLE	4.07	3,887	0.001	244,756	256
20	II-MR	10	BEOUMI	2.609.11	2.609	1.000	120.854	120.859
20	II-MR	15	BOUAFLE	1 255 31	4 185	0 300	232 429	69 718
20	II MP	16	BOUAKE	1 196 04	/ 700	0.250	612 010	15/ 200
20		10	DOUNDIAL	1,100.04	4,/09	0.232	162 202	104,009
20	II-MIK	18	DADOU	331.35	/,956	0.042	103,282	0,800
20	II-MK	20	DABOU	435.64	2,195	0.198	194,093	38,521
20	II-MR	25	DIVO	619.37	8,139	0.076	534,645	40,686
20	II-MR	27	FERKESSEDOUGOU	3,807.24	17,224	0.221	248,666	54,966
20	II-MR	28	GAGNOA	138.11	4,545	0.030	369.091	11,216
20	II-MR	30	GRAND-LAHOU	1.298.69	2.036	0.638	86,497	55,173
20	II-MR	33	IACOUEVILLE	7 30	745	0.010	52 963	525
20	II MD	24		1 4 4 0 0 0	0 440	0.010	16/ 260	Q1 700
20		34	KATIOLA	4,099.90	9,440	0.498	104,200	01,/00
20	II-MK	35	KUKHUGU	5,0/8.83	12,696	0.400	447,492	1/9,012
20	II-MR	38	MANKONO	2,905.89	10,603	0.274	205,369	56,284
20	II-MR	41	OUME	1,806.72	2,358	0.766	177,290	135,841
20	II-MR	42	SAKASSOU	1,498.15	1,874	0.799	65,706	52,528
20	II-MR	46	SINFRA	1,182.06	1.643	0.719	169.588	122.011
20	II-MR	51	TIASSALE	1 951 14	3 442	0 567	177 703	100 733
20	II-MP	52	TIEBISSOU	620 10	2 307	0.272	70 711	10 282
20	II-MD	52	TOLMODI	404.70	2,307	0.273	106 121	12,202
20		55		424.76	2,098	0.137	100,121	10,/0/
20	II-MK	58	ZUENUULA	548.15	2,938	0.187	150,160	28,016

Table 3.10-4 Area and Population Estimate in Major River Basins, Detail

International Condensity of the second sec						l otal Area of	Ratio of	I otal	
Baseboard North Operational Code Dirganisment Name Area (Kar) / 2 (kar) / 2 <th< th=""><th>DAM</th><th></th><th>N. D. K. KOL</th><th></th><th></th><th>Department</th><th>Dept. Area</th><th>Population in</th><th>Population in</th></th<>	DAM		N. D. K. KOL			Department	Dept. Area	Population in	Population in
Description Display Display <thdisplay< th=""></thdisplay<>	Ref. No.	Sub-basin Code	New Department Code	Department Name	Area (km ⁻)	(km2)	In Basin	Department	Basin 80 204
21 10.71 13 10.71 13.75 10.75 10.75 21 11.71 12 10.71 14 12 10.71 13.151 13.151 21 11.71 14 14 10.74 13.151 13.151 21 11.71 14 10 10.74 13.151 14.161 <td>Sub-total</td> <td>II-MR II-MR</td> <td>5/1</td> <td>TAWOUSSOUKKO</td> <td>33 548 62</td> <td>5,800</td> <td>0.297</td> <td>300,322</td> <td>1 434 607 17</td>	Sub-total	II-MR II-MR	5/1	TAWOUSSOUKKO	33 548 62	5,800	0.297	300,322	1 434 607 17
21 II-T1 12 BOCANDA 23.62.82 3.56.22 1.000 8.43.30 94.33.51 21 II-T1 1.6 BOCANDA 2.36.23 5.531 6.001 24.62.64 85.80 21 II-T1 1.6 BOCANDA 2.3533 6.707 6.788 61.019 20.272 21 II-T1 2.3 DAGUERGO 1.554.58 <td< td=""><td>21</td><td>II-T1</td><td>6</td><td>AGBOVILLE</td><td>12.97</td><td>3.887</td><td>0.003</td><td>244,756</td><td>816</td></td<>	21	II-T1	6	AGBOVILLE	12.97	3.887	0.003	244,756	816
21 II-11 14 IDNGOLANDU 2245.25 5.978 0.401 34.578 0.7578 0.7578 0.7578 0.7578 0.7578 0.7578 0.7578 0.7578 0.7578 0.7578 0.7578 0.75786 0.7578 <td>21</td> <td>II-T1</td> <td>12</td> <td>BOCANDA</td> <td>3,262.82</td> <td>3,262</td> <td>1.000</td> <td>84,330</td> <td>84,351</td>	21	II-T1	12	BOCANDA	3,262.82	3,262	1.000	84,330	84,351
21 11-11 10 1001484, A. 5.33, 78 4.700 0.748 0.10, 00 4427, 70 21 11-11 23 DAUMSRO 1354 1.750 10010 4427, 70 21 11-11 24 DMBUKRO 1.564 1.000 80, 416 80,	21	II-T1	14	BONGOUANOU	2,245.25	5,593	0.401	246,264	98,860
Sin Display Display <thdisplay< th=""> <thdisplay< th=""> <thdispl< td=""><td>21</td><td>II-T1</td><td>16</td><td>BOUAKE</td><td>3,523.78</td><td>4,709</td><td>0.748</td><td>613,019</td><td>458,727</td></thdispl<></thdisplay<></thdisplay<>	21	II-T1	16	BOUAKE	3,523.78	4,709	0.748	613,019	458,727
21 0.11 24 DMMONRO 1.564.38 1.564.4 0.068 24.66.6 0.16.49 21 0.11 34 KATIOLA 4.457.56 9.440.0 0.053 0.64.20 7.534.3 21 0.11 34 MAIILAKD 3.447.5 0.653 0.653 0.753 0.723.58 21 0.11 4.3 MAIILAKD 3.447.2 0.653 0.777.703 0.133.30 21 0.11 5.5 TOUMODI 2.275.94 2.308 0.844 0.661.2 9.77.03 0.134.0 21 0.11 5.7 TOUMODI 2.275.94 2.308 0.844 9.77.03 1.340.0 21 0.11 5.7 TOUMODI 2.275.94 2.308 0.444 9.53.2 7.7.038 0.032.2 1.331.0 0.641 0.53.22 1.353.0 0.642 0.53.0 9.7.7.238 0.631 2.308.0 9.447.82 1.853.1 9.9.16 9.9.164.3 9.9.164.3 9.9.164.3 9.9.164.3 9.9.164	21	II-11 II-T1	23	DABAKALA	5,532.99	9,701	0.567	102,866	58,309
21 II-TI 27 IERKESSEDOUCOU 11.67.07 T2233 0.068 23.846.06 15.649 21 II-TI 34 KATOIA 44.375 5.210 0.647 161.260 77.563 21 II-TI 37 MBAIHARKO 3.442.13 5.220 0.627 161.260 77.563 21 II-TI 32 TIBASSOU 1.675.26 2.2307 0.727 70.711 5.99.20 21 II-TI 55 TOUMOH 2.275.42 2.698 0.844 606.13 89.20 2.27 2.037 0.727 70.711 5.99.27 2.111.41 501.22 70.93 2.306 0.257.44 164.49 50.22 70.22 70.22 70.23 70.111 161.26 50.23.22 70.23 11.444.99.13 2.211.11 2.211.11 2.211.11 2.211.11 2.211.11 2.211.11 2.214.11 2.214.11 2.214.11 2.214.11 2.214.11 2.214.11 2.214.11 2.214.11 2.214.11 2.214.11 <	21	II-T1 II-T1	25	DIMBOKRO	1,564.58	1,564	1.000	80,416	80,446
21 II-TI 34 KATIDIA 4.45756 9.440 0.6420 77.563 21 II-TI 39 MIAUILAKU 34.215 5.220 0.655 107.305 72.268 21 II-TI 4 SALSAUL 33.338 II-LI 0.655 107.305 17.31 0.642 77.503 17.31 21 II-TI 55 TOLMODIL 2.275.94 2.2698 0.842 0.842 17.33 18.40 21 II-TI 57 TOLMODIL 2.275.94 2.2698 0.842 0.451 3.306 0.457 30.022 17.33 22 II-T2 15 POUALL 2.963.7 7.956 0.111 52.249 16.33 0.642 0.523 16.33 0.642 0.524 18.33 0.51 2.275 16.43 0.474.02 14.43 19.33 12.26 16.43 0.644 0.51 3.234 13.33 0.444.02 14.33 13.33 0.444.02 14.34 12.266 <td>21</td> <td>II-T1</td> <td>27</td> <td>FERKESSEDOUGOU</td> <td>1,167.07</td> <td>17,224</td> <td>0.068</td> <td>248,666</td> <td>16,849</td>	21	II-T1	27	FERKESSEDOUGOU	1,167.07	17,224	0.068	248,666	16,849
21 II-11 29 MbAILARO 3.44215 3.220 0.693 109.595 72.268 21 II-T1 21 SAXASAD 5.3468 5.427 0.602 6.797 17.197 11.548 21 II-T1 55 TOUMODI 2.27544 2.068 0.844 106.512 8.252 21 II-T1 571 VAMOUSSOURRO 169.87 3.366 0.457 3.00,222 77.038 21 II-T1 571 VAMOUSSOURRO 169.87 3.366 0.454 106.322 12.131 11.41 14.222.121 12.14493.56 221 II-T2 15 BOINDIAL 20.377 10.63 6.644 20.539 13.331 222 II-T2 15 OALOA 71.768 11.460 10.63 6.641 10.724 13.531 222 II-T2 35 MCRITA 7.598.21 11.460 10.661 11.631 223 II-T2 AS MCRITA 7.598.25	21	II-T1	34	KATIOLA	4,457.56	9,440	0.472	164,260	77,563
21 11.11 24 The State of the State	21	II-T1	39	MBAHIAKRO	3,442.13	5,220	0.659	109,595	72,268
21 1.71 52 TTHENSOL 1.775 21.70 7771 51.420 21 11-T1 55 TOUMODI 2.2754 2.080 0.844 106.121 89.202 21 11-T1 571 YAMUUSSULKRO 77.038 38.06 0.457 300.322 73.088 22 11-T2 15 BOUAPLE 2.35657 4.185 0.551 2.222 11.72 18 BOUAPLE 2.35657 4.185 0.551 2.222 12.224 18.516 0.511 18.516 0.511 2.222 12.224 18.516 0.511 18.516 0.511 18.512 2.2247 12.22 11.72 40 ODDIENE 81.27 2.0603 0.6644 2.053.09 15.631 32.12 22 11.72 46 SINPRA 2.225 11.460 0.651 10.618 166.958 3.052 22 11.72 46 SINPRA 2.225 11.461 0.617 10.610 10.606	21		42	TIASSALE	3/3.96	1,8/4	0.201	65,706 177,703	13,182
21 II-TI S5 TOUMODI 2.275 s4 2.698 0.584 105.[21] 89.520 21 II-TI S71 VAMOUSSOURRO 176.08 33.066 0.527 30.022 71.03 22 II-T2 S BOUNTE 2.355.87 T 1.34.09 71.44.09.75 22 II-T2 IS BOUNTE 2.365.57 41.85 71.14 72.32 72.32 73.32 73.32 73.32 73.32 73.32 73.32 73.32 73.32 73.32 73.33 73.32 73.33 73.	21	II-T1 II-T1	52	TIEBISSOU	1,678.26	2,307	0.727	70,711	51,440
21 II-TI S71 YAMOUSSOURO0 978.31 3806 0.227 300.222 77.038 Sub-toal II-TI S72 YAMOUSSOURO 1.668.87 33.066 0.446 300.322 133.86 22 II-T2 IS BOUALLE 23.057 4.145 0.551 222.429 18.350 22 II-T2 IS BOUALLE 23.057 4.165 0.554 11.449.97.16 22 II-T2 IS BOUALLE 23.057 4.165 0.069 0.009 447.47.29 18.353 22 II-T2 AS MAKONOO 7.037.22 10.033 0.664 205.369 10.024 112.604 22 II-T2 46 SKORLA 7.059.82 11.460 0.658 10.508 10.523 22 II-T2 56 VAVOUA 417.49 6.223 0.067 13.613 12.046 23 II-T3 58 SKORLA 7.0533 12.026 6.223 10.05	21	II-T1	55	TOUMODI	2,275.94	2,698	0.844	106,121	89,520
21 II-TI 572 VAMOUSSOURO 1.646 (87) 3.806 0.446 303.22 13.886 22 II-T2 15 BOUAPLE 2.365.75 II-12 16.3221 116.3232 116.3232 116.3232 116.3232 116.3232 116.3232 116.3232 116.3232 116.3232 116.3232 116.3232 116.3232 116.3232 116.3232 116.3232 116.3232 116.323 116.314 116.344 116.344 116.344 116.344 116.344 116.344 116.344 116.344 116.3324 116.3333 116.333 </td <td>21</td> <td>II-T1</td> <td>571</td> <td>YAMOUSSOUKRO</td> <td>976.31</td> <td>3,806</td> <td>0.257</td> <td>300,322</td> <td>77,038</td>	21	II-T1	571	YAMOUSSOUKRO	976.31	3,806	0.257	300,322	77,038
Sub-foul 11-12 15 35,35,35 1 1,144,93-35 22 11-12 15 BOUAPLE 2,366-57 4,185 0.551 22,42,91 12,81,101 23 11-12 15 BOUAPLE 903,10 7356 0,114 103,225 11,33 22 11-12 23 SKORI/GOO 6,164 106,125 0,664 207,329 13,33 22 11-12 45 SEQUELA 7,549,82 11,460 0,659 179,024 11,60,059 179,024 11,60,059 179,024 11,60,059 179,024 11,60,059 110,05,88 3,052 22 11-12 46 SINFRA 23,38 0,671 150,166 100,059 50,551 13,81 300,052 11,34 43,34 144,492 21,143 34 144,492 12,143,234 - - 56,641 9,334 144,120 12,143,234 - - 56,641 9,332 16,134 12,143,232 Sk,444 33 <	21	II-T1	572	YAMOUSSOUKRO	1,696.87	3,806	0.446	300,322	133,896
22 11.72 11.8 DBONDIAL 2.00.171 9.931 2.00.372 2.00.371 0.0000 4.47.342 1.83.313 22 11.72 4.40 ODIENNE 812.57 7.03.982 0.031 1.09.384 8.03.82 22 11.72 4.66 SIMFRA 2.93.77 1.64.61 0.018 1.09.384 3.03.22 22 11.72 4.66 SIMFRA 2.93.77 1.64.61 0.018 1.09.384 3.03.23 22 11.72 4.6 SIMPAL 2.16.01 2.03.86 0.011 1.01.00 1.00.00 1.02.384 8.04.00 1.02.34 4.04.792 1.27.63.53 1.02.33 1.01.33 1.01.33 1.01.33	Sub-total	II-11 II-72	15	DOLLAFIE	35,535.87	4 195	0.551	222 420	1,444,993.36
122 11-12 21 DADA 612.10 5.338 0.114 522.33 53.353 22 11-72 38 MANKONO 7,037.72 10,603 0.664 205.364 135.313 22 11-72 44 SECUELA 7,549.82 11,460 0.659 170.924 112.62 22 11-72 46 SINFRA 29.57 1.643 0.016 165.988 30.52 22 11-72 46 SINFRA 29.57 1.643 0.0167 167.526 19.281 23 11-73 56 VAVOLA 1.770.19 29.38 0.671 150.160 100.665 23 11-73 34 6.671.73 29.80 0.603 163.227 48.753 23 11-73 35 KORHOGO 1.561.14 12.696 0.123 447.929 114.328 24 11-74 55 150.501 12.696 0.123 447.92 68.242 25 11-75	22	II-12 II-T2	15	BOUNDIALI	2,306.57	4,185	0.551	163 282	128,104
22 II-12 35 KORHOGO 4.06 12.096 0.000 447.492 14.31 22 II-12 40 ODENNE 812.57 20.802 0.039 120.429 8.534 22 II-12 46 SINURA 2957 16.43 0.018 160.588 3.002 22 II-12 56 VAVOUA 417.46 6.228 0.671 150.160 100.695 22 II-12 58 ZUENOULA 1.970.19 2.938 6.611 100.666 23 II-13 18 BOUNDIALI 413.39 7.956 0.052 66.228 3.642 23 II-13 34 KATIIOLA 323.79 16.430 0.052 66.228 3.642 12.566 12.566 12.566 12.566 12.566 12.567 3.568.611 23 II-13 38 KORHOGO 3.611.41 12.666 0.123 447.492 67.578 3.567.593 38-brotal II-14	22	II-T2 II-T2	21	DALOA	612.10	5.388	0.114	522,430	59.350
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	22	II-T2	35	KORHOGO	4.06	12,696	0.000	447,492	143
22 II-12 40 ODIENNE 812.57 20.892 0.039 219.429 8.554 22 II-12 46 SINURA 2957 1.643 0.018 109.588 3.032 22 II-12 56 VAVOUA 417.46 6.228 0.0671 150.160 100.06 32 II-12 58 ZUPNOULA 1.970.19 2.986.14 19 23 II-13 18 BOUNDIALI 21.643.24 5.686.14 19 23 II-13 18 BOUNDIALI 413.39 7.956 0.052 164.220 4.843 23 II-13 34 KANKOO 5.171 10.603 0.007 2.055.51 14.333 24 II.74 35 KORHOGO 1.561.14 12.966 0.152 447.492 5.502493 25 II.75 35 KORHOGO 1.561.14 1.4366 0.455 163.232 45.51249 25 II.75 35 KORHOGO </td <td>22</td> <td>II-T2</td> <td>38</td> <td>MANKONO</td> <td>7,037.72</td> <td>10,603</td> <td>0.664</td> <td>205,369</td> <td>136,313</td>	22	II-T2	38	MANKONO	7,037.72	10,603	0.664	205,369	136,313
22 II-12 45 SIGUELA 7,549.82 II,460 0.659 I70.924 I172.604 22 II-12 56 VAVOLA 417.46 6.258 0.067 287.655 119.21 22 II-12 56 VAVOLA 417.44 6.258 0.067 287.655 119.21 58 56.61 10.21 36.61 119.22 36.61 119.23 11.73 18 BOUNDIALI 41.33 7.956 0.052 16.3282 8.484 23 II-13 35 KORHOGO 7.972 0.030 0.070 205.67 11.35.67 24 II-14 35 KORHOGO 1.561.14 7.66 0.052 47.492 45.025 25 II-15 18 BOUNDIALI 434.80 0.956 0.055 16.328 47.492 45.025 25 II-15 18 BOUNDIALI 434.80 0.956 0.055 45.025 45.025 25 II-15 18 BO	22	II-T2	40	ODIENNE	812.57	20,892	0.039	219,429	8,534
22 II-12 46 SNRKA 29.51 I.692.58 3.052 23 II-12 56 VAVOLA 1970.19 2238 0.671 I50,166 100,066 Sub-total II-12 58 ZLENOULA 1970.19 238 0.671 I50,166 100,066 Sub-total II-13 18 BOUNDIALI 413.33 7.956 0.052 I63,282 8.484 23 II-13 34 KARNOKO 297.72 10,669 0.283 447,492 127,655 24 II-14 35 KORHOGO 3.612.01 0.053 0.070 205,367.44 24 II-14 35 KORHOGO 1.561.14 0 50.052 163.228 8.923 25 II-15 18 BOUNDIALI 434.80 7.956 0.053 163.228 8.923 25 II-15 18 BOUNDIALI 434.80 7.956 0.053 163.228 8.923 25 II-15	22	II-T2	45	SEGUELA	7,549.82	11,460	0.659	170,924	112,604
22 II-12 26 VAVOA 107.40 0.23 0.007 247.002 102.01 Sab-toal II-12 28 20 107.01 2.238 0.671 150.010 23 II-13 18 BOUNDIALI 41.33 7.956 0.052 163.282 8.484 23 II-13 34 KATIOLA 282.78 9.440 0.030 164.200 4.920 23 II-13 35 KORHOGO 3.612.00 0.070 205.69 14.328 23 II-13 38 MANKONO 7.972 10.603 0.070 205.69 153.057.55 24 II-14 5 KORHOGO 1,561.14 2.666 0.123 447.492 65.242 25 II-15 18 BOUNDIALI 434.80 7.956 0.053 47.742 68.243 30 II-14 A ADCOO 2.371.00 7.7168.21 37.577.57 2.053 30 II-MR A	22	П-12 и т2	46	SINFRA	29.57	1,643	0.018	169,588	3,052
Sub-total II-12 Documentation 21643.24 Documentation 21643.24 Documentation 286.61173 23 II-73 34 BOUNDALI 213.39 7.956 0.052 16.228 8.484 23 II-73 34 KATHOLA 228.278 0.9440 0.030 164.280 4.47492 127.655 23 II-73 38 MANKONO 7.9721 0.0603 0.070 225.539 14.355 Sub-total II-74 35 KORHOGO 1.561.14 12.696 0.123 447.492 25.021.95 Sub-total II-74 35 KORHOGO 1.362.14 12.696 0.133 47.7492 68.283 25 II-15 18 BOUNDIALI 434.80 7.296 0.055 163.282 8.923 25 II-15 35 KORHOGO 1.382.84 5.143 0.474.402 0.924.776 2.033 30 III-MR 1 ABENGOUROU 2.084 5.143 0.04	22	II-12 II-T2	58	ZUENOULA	1 970 19	2 938	0.007	150,160	19,281
D23 IF.13 18 BOUNDIALI 1413 39 7.956 0.052 163,282 17.13 23 II-13 35 KORHOGO 3.621.20 I2.266 0.285 447.492 127.635 23 II-13 35 KORHOGO 3.621.20 I2.266 0.285 447.492 127.635 24 II-14 35 KORHOGO 1.561.14 12.696 0.123 447.492 55.025 25 II-15 18 BOUNDIALI 434.80 7.956 0.055 163.282 8.923 25 II-15 18 BOUNDIALI 434.80 7.956 0.055 163.282 8.923 25 II-15 5 CRHOCO 1.364.7492 68.243 7.17.682 7.17.682 7.17.682 7.17.682 7.17.682 7.17.682 7.17.682 7.17.682 7.17.682 7.17.682 7.17.682 7.17.682 7.17.682 7.17.682 7.17.682 7.17.682 7.17.623 7.17.623 7.17.623 7.17.624	Sub-total	II-T2	50	LOLIGOLI	21.643.24	2,950	0.071	150,100	586.614.19
23 II-T3 34 KATIOLA 282.78 94.40 0.030 164.200 4920 23 II-T3 38 MANKONO 739.72 10.603 0.070 225.309 14.328 24 II-T4 35 KORHOGO 1.561.14 12.696 0.123 447.492 255.025 Sub-total II-T4 35 KORHOGO 1.561.14 12.696 0.123 447.492 68.245 Sub-total II-T5 18 BOUNDIALI 434.80 7.956 0.055 163.282 8.923 25 II-T5 35 KORHOGO 1.936.20 12.696 0.133 447.492 268.245 30 III-MR 1 ABENGOUROU 2.884 5.143 0.445 289.81 128.847 30 III-MR 4 ADIAKE 0.66 1.714 0.000 12.349 75.275.42 30 III-MR 4 ADIAKE 0.66 1.714 0.0000 12.4775 2.053 <td>23</td> <td>II-T3</td> <td>18</td> <td>BOUNDIALI</td> <td>413.39</td> <td>7,956</td> <td>0.052</td> <td>163,282</td> <td>8,484</td>	23	II-T3	18	BOUNDIALI	413.39	7,956	0.052	163,282	8,484
23 II-T3 35 KORHOGO 3,621.20 12,696 0.285 447,492 127,635 23 II-T3 38 MANKONO 739.72 10,606 0.070 205,369 14,328 Sub-total II-T4 35 KORHOGO 1.561.14 12,696 0.123 447,492 55,025 Sub-total II-T5 18 BOUNDIALI 443.480 795.60 0.055 103,222 8,293 25 II-T5 35 KORHOGO 1,936.20 0.153 447,492 68,243 Sub-total II - 2,971.00 - 3,753,758.43 30 II-MR 3 ABOISSO 40,87 4,474 0.040 224,775 2,033 30 II-MR 5 ADZOPE 1,409.66 2,214 0.404 39,351 2,364 7,6234 30 II-MR 6 ALZEVE 1,409.66 2,214 0.52 2,47,75 2,379 3,21,76 0.550 9,923	23	II-T3	34	KATIOLA	282.78	9,440	0.030	164,260	4,920
23 II-73 38 MANKONO 739.72 10,603 0.70 205.367.54 24 II-74 35 KORHOGO 1,51.14 12,696 0.123 447,492 55.025 25 II-75 18 BOUNDIALI 443.80 7.956 0.055 163.282 8.932 25 II-75 35 KORHOGO 1.936.20 12,696 0.153 447,492 68.245 30b-total II 0.055 163.282 8.933 7.16.86 0.153 447,492 68.245 30b III-MR 1 ABENGOUROU 2.28.34 5.143 0.447,92 2.053 30 III-MR 1 ABENGOUROU 2.28.34 5.143 0.447,92 2.053 30 III-MR 1 ABENGOUROU 2.28.34 5.143 0.447,92 2.053 30 III-MR 4 ADIXAKE 0.66 1,714 0.000 102.447,83 3.0445 2.99,581 106.34 3.99,57,61	23	II-T3	35	KORHOGO	3,621.20	12,696	0.285	447,492	127,635
Sub-total II-13 II-14 II-14 II-15 II-16 II-17 II-17 II-16 II-16 <thii-16< th=""> II-16 II-16</thii-16<>	23	II-T3	38	MANKONO	739.72	10,603	0.070	205,369	14,328
24 II-14 35 KORIOGO I,561.14 IZ,611.4 IZ,611.4 <thiz,611.4< th=""> <thiz,611.4< th=""> <thiz,611.4< th=""></thiz,611.4<></thiz,611.4<></thiz,611.4<>	Sub-total	II-T3	25	WODUOCO	5,057.09	12 (0)	0.100	447.400	155,367.54
Saukula II-14 II-15 IR BOUNDIALI 1,801.41 2,801.44 0 7,956 0.055 163.282 8,923 25 II-15 35 KORHOGO 1,936.20 12,696 0.153 447,492 68,245 Sub-total II E 2,371.00 2,371.00 3,753,775.42 30 III-MR 1 ABENGOILODU 2,288.34 5,143 0.445 229,715 2,063 30 III-MR 4 ADIAKE 0.66 1,714 0.000 102,349 39 30 III-MR A ADIAKE 0.66 1,714 0.000 102,349 39 30 III-MR A ADIAKE 0.66 1,714 0.000 102,349 39 30 III-MR 8 ALEPE 1,195 33 0.373 0.69,32 33,209 30 III-MR 13 BONGOUKNOU 1,484 39 9,844 0.151 250,133 7,716 0.550 <td< td=""><td>24 Sub total</td><td>II-14 II-74</td><td>35</td><td>KORHOGO</td><td>1,561.14</td><td>12,696</td><td>0.123</td><td>447,492</td><td>55,025</td></td<>	24 Sub total	II-14 II-74	35	KORHOGO	1,561.14	12,696	0.123	447,492	55,025
2.3 II-15 16 DOUBLIAL -1936.20 10,225 10,227 12,253 10,216 10,2349 10,2349 10,2349 10,2349 10,2349 10,2349 10,2349 10,2349 10,2349 10,2349 10,2349 10,2349 10,2349 10,2349 10,2349 10,2346 11,273 11,273	Sub-total 25	II-14 II T5	18		1,301.14	7 056	0.055	163 282	33,024.93
Sub-total II-15 Description Control of the second seco	25	П-15	35	KORHOGO	1 936 20	12 696	0.055	447 492	68 245
Total II ABENGOUROU 29,716.96 3,753,775.42 30 III-MR 1 ABENGOUROU 2,283.4 5,143 0.445 289,581 128,847 30 III-MR 3 ABOISSO 40.87 4,474 0.009 224,775 2,053 30 III-MR 4 ADIAKE 0.66 1,714 0.000 102,349 39 30 III-MR 5 ADZOPE 1,409,66 5,218 0.270 822,203 76,254 30 III-MR 7 AGNIBILEKROU 69,193 1.853 0.373 106,946 39,935 30 III-MR 13 BONDOUKOU 1,484.38 9,844 0.151 250,133 37,718 30 III-MR 17 BOUNA 3,921.01 21,846 0.179 177,157 31,797 30 III-MR 19 DABAKALA 1,199.39 9,761 0.123 102,866 62,761 30 III-MR 29	Sub-total	П-Т5	55	Rolalogo	2.371.00	12,090	0.155	117,192	77.168.21
30 III-MR 1 ABENGOUROU 22,88,34 5,143 0.445 289,581 128,847 30 III-MR 3 ABOISSO 40,87 4,474 0.009 224,775 2,033 30 III-MR 4 ADIAKE 0.66 1,714 0.000 102,349 39 30 III-MR 5 ADZOPE 1,409,66 5,218 0.270 282,263 76,254 30 III-MR 7 AGNIBILEKKOU 691.93 2,176 0.550 96,923 53,269 30 III-MR 13 BONDOUKOU 1,484.38 9,844 0.151 250,133 37,718 30 III-MR 17 BOUNA 3,921.01 21,846 0.179 177,157 31,797 30 III-MR 19 DABAKALA 1,199.39 9,761 0.123 100,2866 62,735 30 III-MR 27 FERKESSEDUGOU 4,345.81 17242 0.765 137,761 105,344 </td <td>Total</td> <td>II</td> <td></td> <td></td> <td>99,716.96</td> <td></td> <td></td> <td></td> <td>3,753,775.42</td>	Total	II			99,716.96				3,753,775.42
30 III-MR 3 ABOISSO 40.87 4.474 0.009 224,775 2.053 30 III-MR 4 ADIAKE 0.66 1.714 0.000 102,349 39 30 III-MR 5 ADZOPE 1,409.66 5,218 0.270 282,263 76,254 30 III-MR 7 AGNIBILEKROU 691.93 1,853 0.373 106,946 39,935 30 III-MR 13 BONDOUKOU 1,484.38 9,844 0.151 250.133 37,718 30 III-MR 14 BONGOUNOU 1,088.45 9,844 0.151 226,013 37,718 30 III-MR 19 DABAKALA 1,199.39 9,761 0.123 102,866 12,240 30 III-MR 29 GRAND-BASSAM 1,900.55 1,472 0.522 248,666 62,735 30 III-MR 29 GRAND-BASSAM 1,900.55 1,472 0.765 137,761 105,5	30	III-MR	1	ABENGOUROU	2,288.34	5,143	0.445	289,581	128,847
30 III-MR 4 ADIAKE 0.66 1,714 0.000 102,349 39 30 III-MR 5 ADZOPE 1,409,66 5,218 0.270 282,263 76,254 30 III-MR 7 AGNIBILEKROU 691,93 1,853 0.373 106,946 39,935 30 III-MR 13 BONDOUKOU 1,484,38 9,844 0.151 250,133 37,718 30 III-MR 14 BONGOUANOU 1,008,80 5,593 0.180 246,264 44,418 30 III-MR 17 BOUNA 3,921.01 2,846 0.179 177,157 31,277 30 III-MR 23 DAOUKRO 2,000,63 358 0.510 122,970 62,761 30 III-MR 29 GRAND-BASSAM 1,090,55 1,426 0.755 137,761 105,354 30 III-MR 39 MBAHIAKRO 1,774.02 6,390 0.121 231,784 280,76	30	III-MR	3	ABOISSO	40.87	4,474	0.009	224,775	2,053
30 III-MR 3 ADZOFE 1,409.60 3,218 0.270 2.282,263 76,234 30 III-MR 7 AGNIBILERROU 691.93 1,353 0.373 106,946 39,935 30 III-MR 13 BONDOUKOU 1,484.38 9,844 0.151 250.133 37,718 30 III-MR 14 BONGOUANOU 1,088.80 5,593 0.180 246,264 44,418 30 III-MR 19 DABAKALA 1,199.99 9,761 0.123 102,866 12,640 30 III-MR 19 DABAKALA 1,199.99 9,761 0.123 102,866 12,640 30 III-MR 23 DAOUKRO 2,020.06 3,958 0.510 122,970 62,755 30 III-MR 29 GRAND-BASSAM 1,000.55 1,426 0.765 137,761 105,354 30 III-MR 39 MBAHIAKRO 1,778.31 5,220 0.321 231,784	30	III-MR	4	ADIAKE	0.66	1,714	0.000	102,349	39
Do III-MR F IAUMILLENCO DATAS I,105 DATAS I,105 DATAS I,105 DATAS I,105 DATAS I,105 DATAS DATAS <th< td=""><td>30</td><td>III-MR III-MR</td><td><u> </u></td><td>ADZOPE</td><td>1,409.66</td><td>5,218</td><td>0.270</td><td>282,263</td><td>76,254</td></th<>	30	III-MR III-MR	<u> </u>	ADZOPE	1,409.66	5,218	0.270	282,263	76,254
30 III-MR 13 BONDOUKOU 14.84.38 9.844 0.151 250,133 37,718 30 III-MR 14 BONDOUKOU 1,008.80 5,593 0.180 246,264 44,418 30 III-MR 17 BOUNA 3,921.01 21,846 0.179 177,157 31,797 30 III-MR 19 DABAKALA 1,199.39 9,761 0.123 102,866 12,640 30 III-MR 23 DAOUKRO 2,020.06 3,958 0.510 122,970 62,761 30 III-MR 29 GRAND-BASSAM 1,090.55 1,426 0.765 137,761 105,354 30 III-MR 39 MBAHIAKRO 1,778,31 5,220 0.341 109,595 37,336 30 III-MR 49 TANDA 774.02 6,390 0.121 231,784 28,076 Sub-total III-11 1 ABENGOUROU 1,648.498 5,143 0.3228 289,581 <td>30</td> <td>III-MR</td> <td>8</td> <td>ALEPE</td> <td>1 195 93</td> <td>2,176</td> <td>0.575</td> <td>96 923</td> <td>53 269</td>	30	III-MR	8	ALEPE	1 195 93	2,176	0.575	96 923	53 269
30 III-MR 14 BONGOUANOU 1,008.80 5,593 0.180 246,264 44,418 30 III-MR 17 BOUNA 3,921.01 21,846 0.179 177,157 31,797 30 III-MR 19 DABAKALA 1,199.39 9,761 0.123 102,866 12,640 30 III-MR 23 DAOUKRO 2,020.06 3,958 0.510 122,970 62,761 30 III-MR 29 GRAND-BASSAM 1,090.55 1,426 0.765 137,761 105,334 30 III-MR 39 MBAHIAKRO 1,778.31 5,220 0.341 109,595 37,336 30 III-MR 49 TANDA 774.02 6,390 0.121 231,784 28,076 Sub-total III-T1 1 ABENGOUROU 1,684.98 5,143 0.328 289,581 94,874 31 III-T1 7 AGNIBILEKROU 313.27 1,853 0.169 106,946	30	III-MR	13	BONDOUKOU	1,484.38	9,844	0.151	250,133	37,718
30 III-MR 17 BOUNA 3,221.01 21,846 0.179 177,157 31,797 30 III-MR 19 DABAKALA 1,199.39 9,761 0.123 102,866 12,640 30 III-MR 23 DAOUKRO 2,020.06 3,958 0.510 122,970 62,761 30 III-MR 27 FERKESSEDOUGOU 4,345.38 17,224 0.252 248,666 62,735 30 III-MR 29 GRAND-BASSAM 1,090.55 1,426 0.765 137,761 105,534 30 III-MR 39 MBAHIAKRO 1,778.31 5,220 0.341 109,595 37,336 30 III-MR 49 TANDA 774.02 6,300 0.121 231,784 28,076 31 III-T1 1 ABENGOUROU 1,684.98 5,143 0.328 289,581 94,874 31 III-T2 1 ABENGOUROU 714.80 5,143 0.139 289,581	30	III-MR	14	BONGOUANOU	1,008.80	5,593	0.180	246,264	44,418
30 III-MR 19 DABAKALA 1,19,39 9,761 0.123 102,866 12,640 30 III-MR 23 DAOUKRO 2,020.06 3,958 0.510 122,970 62,761 30 III-MR 27 FERKESSEDOUGOU 4,345,38 17,224 0.252 248,666 62,735 30 III-MR 29 GRAND-BASSAM 1,090,55 1,426 0.765 137,761 105,554 30 III-MR 39 MBAHIAKRO 1,778,31 5,220 0.341 109,595 37,336 30 III-MR 49 TANDA 774.02 6,390 0.121 231,784 28,076 Sub-total III-T1 1 ABENGOUROU 1,684.98 5,143 0.328 289,581 94,874 31 III-T1 7 AGNIBILEKROU 313.27 1,883 0.169 106,946 18,081 Sub-total III-T2 1 ABENGOUROU 719.66 40,510.31 324,033	30	III-MR	17	BOUNA	3,921.01	21,846	0.179	177,157	31,797
30 III-INR 2.5 DAUCKO 2.020.00 3.958 0.310 122,970 62,705 30 III-MR 29 GRAND-BASSAM 1,090.55 1,426 0.765 137,761 105,354 30 III-MR 39 MBAHIAKRO 1,778.31 5,220 0.341 109,595 37,336 30 III-MR 49 TANDA 774.02 6,390 0.121 231,784 28,076 Sub-total III-MR 49 TANDA 774.02 6,390 0.121 231,784 28,076 Sub-total III-TI 1 ABENGOUROU 1,684.98 5,143 0.328 289,581 94,874 31 III-T1 7 AGNIBILEKROU 313.27 1,853 0.169 106,946 18,081 Sub-total III-T2 1 ABENGOUROU 714.80 5,143 0.139 289,581 40,247 32 III-T2 1 ABENGOUROU 719,66 40,510.31 40,247	30	III-MŔ	19	DABAKALA	1,199.39	9,761	0.123	102,866	12,640
30 III-MR 27 FLEKERSELDOCO 4,343.36 17,224 0.232 246,000 02,733 30 III-MR 39 MBAHIAKRO 1,778.31 5,220 0.341 109,595 37,336 30 III-MR 49 TANDA 774.02 6,390 0.121 231,784 28,076 Sub-total III-MR 49 TANDA 774.02 6,390 0.121 231,784 28,076 Sub-total III-MR 23,249.27 7 723,231.10 723,231.10 723,231.10 112,954.52 723,231.10 112,954.52 723,231.10 112,954.52 112,954.52 112,954.52 112,954.52 112,954.52 112,954.52 112,954.52 263 263 263 32 III-T2 1 ABENGOUROU 714.80 5,143 0.139 289,581 40,247 32 III-T2 1 ABENGOUROU 714.80 5,143 0.139 280,513 40,217 33 III-T2 1 ABENGOUROU <t< td=""><td>30</td><td></td><td>23</td><td>FERKESSEDOUCOU</td><td>2,020.06</td><td>3,938</td><td>0.510</td><td>122,970</td><td>62,701</td></t<>	30		23	FERKESSEDOUCOU	2,020.06	3,938	0.510	122,970	62,701
30 III-MR 39 MBAHLARRO 1022 1022 0.102 10101 1025 37,336 30 III-MR 49 TANDA 774.02 6,390 0.121 231,784 28,076 Sub-total III-MR 23,249.27 7 723,231.10 7338 31 III-T1 1 ABENGOUROU 1,684.98 5,143 0.328 289,581 94,874 31 III-T1 7 AGNIBILEKROU 313.27 1,853 0.169 106,946 18,081 Sub-total III-T2 1 ABENGOUROU 714.80 5,143 0.139 289,581 40,247 32 III-T2 1 ABENGOUROU 714.80 5,143 0.139 289,581 40,247 33 III-T2 5 ADZOPE 4.87 5,218 0.001 282,263 263 33 III-T3 7 AGNIBILEKROU 847.84 1,853 0.458 106,946 48,933 33	30	JII-MR	29	GRAND-BASSAM	4,545.58	1 426	0.232	137 761	105 354
30 III-MR 49 TANDA 774.02 6,390 0.121 231,784 28,076 Sub-total III-MR 23,249.27 723,231.10 723,231.10 723,231.10 31 III-T1 1 ABENGOUROU 1,684.98 5,143 0.328 289,581 94,874 31 III-T1 7 AGNIBILEKROU 313.27 1,853 0.169 106,946 18,081 Sub-total III-T2 1 ABENGOUROU 714.80 5,143 0.139 289,581 40,247 32 III-T2 5 ADZOPE 4.87 5,218 0.001 282,263 263 Sub-total III-T3 7 AGNIBILEKROU 847.84 1,853 0.458 106,946 48,933 33 III-T3 13 BONDOUKOU 1,004.90 9,844 0.102 250,133 25,534 33 III-T3 49 TANDA 4,258.45 6,390 0.666 231,784 154,466 Su	30	III-MR	39	MBAHIAKRO	1,778.31	5,220	0.341	109,595	37,336
Sub-total III-MR 23,249,27 723,231,10 31 III-T1 1 ABENGOUROU 1,684,98 5,143 0.328 289,581 94,874 31 III-T1 7 AGNIBILEKROU 313,27 1,853 0.169 106,946 18,081 Sub-total III-T2 1 ABENGOUROU 714,80 5,143 0.139 289,581 40,247 32 III-T2 5 ADZOPE 4.87 5,218 0.001 282,263 263 Sub-total III-T3 7 AGNIBILEKROU 84,874 1,853 0.458 106,946 48,933 33 III-T3 7 AGNIBILEKROU 84,784 1,853 0.458 106,946 48,933 33 III-T3 13 BONDOUKOU 1,004,90 9,844 0.102 250,133 25,534 34 III-T4 13 BONDOUKOU 3,131.3 9,844 0.318 250,133 79,612 34 III-T4 13 <td>30</td> <td>III-MR</td> <td>49</td> <td>TANDA</td> <td>774.02</td> <td>6,390</td> <td>0.121</td> <td>231,784</td> <td>28,076</td>	30	III-MR	49	TANDA	774.02	6,390	0.121	231,784	28,076
31 III-T1 1 ABENGOUROU 1,684.98 5,143 0.328 289,581 94,874 31 III-T1 7 AGNIBILEKROU 313.27 1,853 0.169 106,946 18,081 Sub-total III-T2 1 ABENGOUROU 714.80 5,143 0.139 289,581 40,247 32 III-T2 5 ADZOPE 4.87 5,218 0.001 282,263 263 Sub-total III-T2 5 ADZOPE 4.87 5,218 0.001 282,263 263 Sub-total III-T3 7 AGNIBILEKROU 847.84 1,853 0.458 106,946 48,933 33 III-T3 13 BONDOUKOU 1,004.90 9,844 0.102 250,133 25,534 34 III-T4 13 BONDOUKOU 3,133.13 9,844 0.318 250,133 79,612 34 III-T4 13 BONDOUKOU 3,133.13 9,844 0.318 250,133	Sub-total	III-MR			23,249.27				723,231.10
51 III-11 7 AGNIBILEKROU 313.27 1,853 0.169 106,946 18,081 Sub-total III-T1 1,998.25 112,954.52 32 III-T2 1 ABENGOUROU 714.80 5,143 0.139 289,581 40,247 32 III-T2 5 ADZOPE 4.87 5,218 0.001 282,263 40,510.31 33 III-T3 7 AGNIBILEKROU 847.84 1,853 0.458 106,946 48,933 33 III-T3 13 BONDOUKOU 1,004.90 9,844 0.102 250,133 25,534 33 III-T3 49 TANDA 4,258.45 6,390 0.666 231,784 154,466 Sub-total III-T4 13 BONDOUKOU 3,133.13 9,844 0.318 250,133 79,612 34 III-T4 17 BOUNA 539.25 21,846 0.025 177,157 4,373 34 <td>31</td> <td>III-T1</td> <td>1</td> <td>ABENGOUROU</td> <td>1,684.98</td> <td>5,143</td> <td>0.328</td> <td>289,581</td> <td>94,874</td>	31	III-T1	1	ABENGOUROU	1,684.98	5,143	0.328	289,581	94,874
Suo-total III-11 III-11 III-20 III-2984.52 32 III-T2 1 ABENGOUROU 714.80 5,143 0.139 289,581 40,247 32 III-T2 5 ADZOPE 4.87 5,218 0.001 282,263 263 Sub-total III-T2 7 AGNIBILEKROU 847.84 1,853 0.458 106,946 48,933 33 III-T3 7 AGNIBILEKROU 847.84 1,853 0.458 106,946 48,933 33 III-T3 13 BONDOUKOU 1,004.90 9,844 0.102 250,133 25,534 33 III-T3 49 TANDA 4,258.45 6,390 0.666 231,784 154,466 Sub-total III-T4 13 BONDOUKOU 3,133.13 9,844 0.318 250,133 79,612 34 III-T4 17 BOUNA 539.25 21,846 0.025 177,157 4,373 35 III-75	31	III-T1	7	AGNIBILEKROU	313.27	1,853	0.169	106,946	18,081
32 III-T2 1 ABENGOUKOU 14.00 5,145 0.139 289,381 40,247 32 III-T2 5 ADZOPE 4.87 5,218 0.001 282,263 263 Sub-total III-T2 7 AGNIBILEKROU 847.84 1,853 0.458 106,946 48,933 33 III-T3 13 BONDOUKOU 1,004.90 9,844 0.102 250,133 25,534 33 III-T3 49 TANDA 4,258.45 6,390 0.666 231,784 154,466 Sub-total III-T4 13 BONDOUKOU 3,133.13 9,844 0.318 250,133 79,612 34 III-T4 17 BOUNA 592.5 21,846 0.025 177,157 4,373 34 III-T4 49 TANDA 1,357.33 6,390 0.212 231,784 49,234 Sub-total III-T4 19 DABAKALA 1,224.82 9,761 0.125 102,866	Sub-total	III-11 III тэ	1	APENCOLIDOU	1,998.25	5 142	0.120	200 501	112,954.52
Sub-total III-T2 7 AGNIBILEKROU 847.84 1,853 0.458 106,946 48,933 33 III-T3 7 AGNIBILEKROU 847.84 1,853 0.458 106,946 48,933 33 III-T3 13 BONDOUKOU 1,004.90 9,844 0.102 250,133 25,534 33 III-T3 49 TANDA 4,258.45 6,390 0.666 231,784 154,466 Sub-total III-T4 13 BONDOUKOU 3,133.13 9,844 0.318 250,133 79,612 34 III-T4 17 BOUNA 592.25 21,846 0.025 177,157 4,9,234 35 III-T4 49 TANDA 1,357.33 6,390 0.212 231,784 49,234 Sub-total III-T4 17 BOUNA 5,029.71 133,219.25 132,466 12,2907.70 35 III-T5 19 DABAKALA 1,224.82 9,761 0.125 102,866	32	III-12 III-T2	5	ADZOPE	/14.80	5 218	0.139	289,381	40,247
33 III-T3 7 AGNIBILEKROU 847.84 1,853 0.458 106,946 48,933 33 III-T3 13 BONDOUKOU 1,004.90 9,844 0.102 250,133 25,534 33 III-T3 49 TANDA 4,258.45 6,390 0.666 231,784 154,466 Sub-total IIII-T3 6,111.19 228,933.62 34 III-T4 13 BONDOUKOU 3,133.13 9,844 0.318 250,133 79,612 34 III-T4 17 BOUNA 539.25 21,846 0.025 177,157 4,9,234 Sub-total III-T4 49 TANDA 1,357.33 6,390 0.212 231,784 49,234 Sub-total III-T4 9 TANDA 1,357.33 6,390 0.212 231,784 49,234 Sub-total III-T5 19 DABAKALA 1,224.82 9,761 0.125 102,866 12,907.70 36 III-T6 <td< td=""><td>Sub-total</td><td>III-T2</td><td>5</td><td></td><td>719 66</td><td>5,210</td><td>0.001</td><td>202,203</td><td>40.510.31</td></td<>	Sub-total	III-T2	5		719 66	5,210	0.001	202,203	40.510.31
33 III-T3 13 BONDOUKOU 1,004.90 9,844 0.102 250,133 25,534 33 III-T3 49 TANDA 4,258,45 6,390 0.666 231,784 154,466 Sub-total IIII-T3 6,111.19 228,933.62 34 III-T4 13 BONDOUKOU 3,133.13 9,844 0.318 250,133 79,612 34 III-T4 17 BOUNA 539.25 21,846 0.025 177,157 4,373 34 III-T4 49 TANDA 1,357.33 6,390 0.212 231,784 49,234 Sub-total III-T4 9 TANDA 1,357.33 6,390 0.212 231,784 49,234 Sub-total III-T5 19 DABAKALA 1,224.82 9,761 0.125 102,866 12,908 Sub-total III-T5 19 DABAKALA 1,803.61 9,761 0.185 102,866 19,007 36 IIII-T6 19 </td <td>33</td> <td>III-T3</td> <td>7</td> <td>AGNIBILEKROU</td> <td>847.84</td> <td>1.853</td> <td>0.458</td> <td>106.946</td> <td>48.933</td>	33	III-T3	7	AGNIBILEKROU	847.84	1.853	0.458	106.946	48.933
33 III-T3 49 TANDA 4,258.45 6,390 0.666 231,784 154,466 Sub-total III-T3 6,111.19 228,933.62 34 III-T4 13 BONDOUKOU 3,133.13 9,844 0.318 250,133 79,612 34 III-T4 17 BOUNA 539.25 21,846 0.025 177,157 4,373 34 III-T4 49 TANDA 1,357.33 6,390 0.212 231,784 49,234 Sub-total III-T4 9 TANDA 1,357.33 6,390 0.212 231,784 49,234 Sub-total III-T4 9 TANDA 1,357.33 6,390 0.212 231,784 49,234 Sub-total III-T5 19 DABAKALA 1,224.82 9,761 0.125 102,866 12,908 Sub-total III-T6 19 DABAKALA 1,803.61 9,761 0.185 102,866 19,007 36 IIII-T6 27<	33	III-T3	13	BONDOUKOU	1,004.90	9,844	0.102	250,133	25,534
Sub-total III-T3 6,111.19 228,933.62 34 III-T4 13 BONDOUKOU 3,133.13 9,844 0.318 250,133 79,612 34 III-T4 17 BOUNA 539.25 21,846 0.025 177,157 4,373 34 III-T4 49 TANDA 1,357.33 6,390 0.212 231,784 49,234 Sub-total III-T4 19 DABAKALA 1,224.82 9,761 0.125 102,866 12,908 Sub-total III-T5 19 DABAKALA 1,224.82 9,761 0.125 102,866 12,907.70 36 III-T6 19 DABAKALA 1,803.61 9,761 0.185 102,866 19,007 36 III-T6 27 FERKESSEDOUGOU 1,387.00 17,224 0.081 248,666 20,024 Sub-total III-T6 27 FERKESSEDOUGOU 3,190.60 39,031.56	33	III-T3	49	TANDA	4,258.45	6,390	0.666	231,784	154,466
34 III-T4 13 BONDOUKOU 3,133.13 9,844 0.318 250,133 79,612 34 III-T4 17 BOUNA 539.25 21,846 0.025 177,157 4,373 34 III-T4 49 TANDA 1,357.33 6,390 0.212 231,784 49,234 Sub-total III-T4 9 TANDA 1,357.33 6,390 0.212 231,784 49,234 Sub-total III-T5 19 DABAKALA 1,224.82 9,761 0.125 102,866 12,908 Sub-total III-T5 19 DABAKALA 1,224.82 12,907.70 12,907.70 36 III-T6 19 DABAKALA 1,803.61 9,761 0.185 102,866 19,007 36 III-T6 27 FERKESSEDOUGOU 1,387.00 17,224 0.081 248,666 20,024 Sub-total III-T6 27 FERKESSEDOUGOU 3,190.60 39,031.56	Sub-total	III-T3			6,111.19				228,933.62
54 III-14 17 BOUNA 559.25 21,846 0.025 177,157 4,373 34 III-T4 49 TANDA 1,357.33 6,390 0.212 231,784 49,234 Sub-total III-T4 9 TANDA 1,357.33 6,390 0.212 231,784 49,234 Sub-total III-T5 19 DABAKALA 1,224.82 9,761 0.125 102,866 12,908 Sub-total III-T5 19 DABAKALA 1,224.82 9,761 0.125 102,866 12,907.70 36 III-T6 19 DABAKALA 1,803.61 9,761 0.185 102,866 19,007 36 III-T6 27 FERKESSEDOUGOU 1,387.00 17,224 0.081 248,666 20,024 Sub-total III-T6 27 FERKESSEDOUGOU 3,190.60 39,031.56	34	III-T4	13	BONDOUKOU	3,133.13	9,844	0.318	250,133	79,612
34 III-14 49 IANDA 1,357.33 6,390 0.212 231,784 49,234 Sub-total IIII-T4 5,029.71 133,219.25 133,219.25 35 III-T5 19 DABAKALA 1,224.82 9,761 0.125 102,866 12,908 Sub-total III-T5 19 DABAKALA 1,224.82 2 12,907.70 36 III-T6 19 DABAKALA 1,803.61 9,761 0.185 102,866 19,007 36 III-T6 27 FERKESSEDOUGOU 1,387.00 17,224 0.081 248,666 20,024 Sub-total III-T6 3,190.60 39,031.56 39,031.56	34	111-14 111-14	17	BUUNA	539.25	21,846	0.025	177,157	4,373
35 III-T5 19 DABAKALA 1,224.82 9,761 0.125 102,866 12,908 Sub-total IIII-T5 19 DABAKALA 1,224.82 9,761 0.125 102,866 12,908 Sub-total IIII-T6 19 DABAKALA 1,803.61 9,761 0.185 102,866 19,007 36 IIII-T6 27 FERKESSEDOUGOU 1,387.00 17,224 0.081 248,666 20,024 Sub-total IIII-T6 3,190.60 39,031.56 39,031.56	54 Sub-total	III-14 III_T/	47	TANDA	1,007.00	0,390	0.212	231,/84	49,234
Sub-total III-T5 1,221,02 3,701 6,125 102,666 12,906 36 III-T6 19 DABAKALA 1,803.61 9,761 0.185 102,866 19,007 36 III-T6 27 FERKESSEDOUGOU 1,387.00 17,224 0.081 248,666 20,024 Sub-total III-T6 3,190.60 3,9031.56 3,9031.56	35	III-T-5	19	DABAKALA	1 224 82	9 761	0.125	102.866	12 908
36 III-T6 19 DABAKALA 1,803.61 9,761 0.185 102,866 19,007 36 III-T6 27 FERKESSEDOUGOU 1,387.00 17,224 0.081 248,666 20,024 Sub-total III-T6 3,190.60 3,9031.56 39,031.56	Sub-total	III-T5	• /		1,224.82	>,,01	0.125	102,000	12,907.70
36 III-T6 27 FERKESSEDOUGOU 1,387.00 17,224 0.081 248,666 20,024 Sub-total III-T6 3,190.60 39,031.56	36	III-T6	19	DABAKALA	1,803.61	9,761	0.185	102,866	19.007
Sub-total III-T6 3,190.60 39,031.56	36	III-T6	27	FERKESSEDOUGOU	1,387.00	17,224	0.081	248,666	20,024
	Sub-total	III-T6			3,190.60				39,031.56

					l otal Area of	Ratio of	I otal	
					Department	Dept. Area	Population in	Population in
Ref. No.	Sub-basin Code	New Department Code	Department Name	Area (km ²)	(km2)	in Basin	Department	Basin 9 461
37	III-17 III-T7	13	BOUNA	2.070.54	21 846	0.034	177 157	16 791
37	III-T7	27	FERKESSEDOUGOU	8.58	17,224	0.000	248,666	124
Sub-total	III-T7			2,412.10				25,375.33
38	III-T8	17	BOUNA	5,646.48	21,846	0.258	177,157	45,789
38	III-T8	27	FERKESSEDOUGOU	3.27	17,224	0.000	248,666	47
Sub-total	III-18	17		5,649.74	21.946	0.000	177 157	45,836.44
39	III-19 III-T9	27	BOUNA	0.46	21,846	0.000	248 666	25 640
Sub-total	III-T9	21	I ERRESSED000000	1,776.45	17,224	0.105	240,000	25,643,94
39A	III-T10	17	BOUNA	1,008.55	21,846	0.046	177,157	8,179
39A	III-T10	27	FERKESSEDOUGOU	0.92	17,224	0.000	248,666	13
Sub-total	III-T10			1,009.46				8,191.87
39B	III-T11	27	FERKESSEDOUGOU	4,730.04	17,224	0.275	248,666	68,288
39B	III-T11	35	KORHOGO	179.95	12,696	0.014	447,492	6,343
Sub-total				4,909.98				/4,630.94
10tai 40	IV-MP	9	BANGOLO	256.34	2 127	0.121	133 711	1,470,400.38
40	IV-MR	11	BIANKOUMA	68.88	5.020	0.014	122.626	1.682
40	IV-MR	22	DANANE	2,242.50	4,601	0.487	309,725	150,958
40	IV-MR	31	GUIGLO	5,064.90	10,557	0.480	255,883	122,764
40	IV-MR	37	MAN	121.61	4,808	0.025	361,505	9,144
40	IV-MR	48	TABOU	2,756.77	5,851	0.471	128,041	60,328
40 Sub total	IV-MR	54	TOULEPLEU	490.04	811	0.604	49,446	29,877
Sub-total	IV-MK	21	GUIGLO	11,001.04	10 557	0.100	755 007	390,868.60
41	IV-11 IV_T1	<u> </u>	SAN-PEDRO	1,148.98	10,55/	0.109	233,883	27,849
41	IV-T1	47	SOUBRE	1.576.87	8,540	0.185	635.266	117.299
41	IV-T1	48	TABOU	1,486.24	5,851	0.254	128,041	32,524
Sub-total	IV-T1			4,421.16	,		, , , , , , , , , , , , , , , , , , ,	190,420.20
42	IV-T2	31	GUIGLO	1,222.36	10,557	0.116	255,883	29,628
Sub-total	IV-T2			1,222.36				29,627.94
Total	IV			16,644.56				610,916.75
50	V-MR	22	DANANE	1,036.48	4,601	0.225	309,725	69,772
50 Sub tatal	V-MR	54	TOULEPLEU	321.66	811	0.397	49,446	19,612
Sub-total	V-MR V T1	22	DANANE	1,358.14	4 601	0.212	200 725	89,383.87
Sub-total	V-11 V-T1	22	DANANE	973.82	4,001	0.212	509,725	65 554 60
Total	V			2 331 96				154 938 46
60	VI-BA	40	ODIENNE	1 355 54	20.892	0.065	219 429	14 237
60	VI-BA	50	TENGRELA	275.40	2,270	0.121	63,577	7,713
Sub-total	VI-BA			1,630.94	,		,	21,950.60
61	VI-T1	18	BOUNDIALI	4,359.76	7,956	0.548	163,282	89,476
61	VI-T1	35	KORHOGO	315.89	12,696	0.025	447,492	11,134
61	VI-T1	40	ODIENNE TENCERELA	1,452.53	20,892	0.070	219,429	15,256
61 Cult total	VI-11	50	TENGRELA	1,419.89	2,270	0.626	63,577	39,768
Sub-total	VI-11 VI T2	10		1,548.08	7.056	0.100	162 292	155,055.71
62	VI-12 VI-T2	40	ODIENNE	1,311.83	20.892	0.190	219 429	18 720
62	VI-T2	50	TENGRELA	574.57	2,270	0.253	63,577	16,092
Sub-total	VI-T2			3,868.76	,		,	65,839.79
63	VI-T3	40	ODIENNE	1,121.61	20,892	0.054	219,429	11,780
Sub-total	VI-T3			1,121.61				11,780.28
64	VI-T4	40	ODIENNE	5,765.46	20,892	0.276	219,429	60,555
Sub-total	VI-T4			5,765.46				60,554.71
65	VI-T5	40	ODIENNE	2,668.90	20,892	0.128	219,429	28,031
Sub-total	VI-T5			2,668.90				28,031.49
Total		12	DONDOLIKOU	22,603.75	0.044	0.154	250 122	343,790.58
70	VII-BA VII-RA	13	BOINA	1,511.65	9,844	0.154	250,133	38,411
Sub-total	VII-BA	17	BOULUI	4 815 86	21,040	0.131	1//,13/	65 205 54
71	VII-T1	17	BOUNA	1.511.38	21.846	0.069	177.157	12.256
Sub-total	VII-T1	÷,		1,511.38	_1,010	0.009	1,7,107	12,256.28
72	VII-T2	17	BOUNA	1,482.45	21,846	0.068	177,157	12,022
Sub-total	VII-T2			1,482.45	, -			12,021.72
73	VII-T3	17	BOUNA	2,096.66	21,846	0.096	177,157	17,003
Sub-total	VII-T3			2,096.66				17,002.60
74	VII-T4	13	BONDOUKOU	2,377.86	9,844	0.242	250,133	60,421
74	VII-T4	17	BOUNA	265.65	21,846	0.012	177,157	2,154
Sub-total	VII-T4			2,643.50				62,574.77
Total		2		12,549.85		0.005	224 222	169,060.90
80	VIII-CA	<u>5</u>	ADIAKE	924.13	4,4/4	0.207	224,775	46,428
80	VIII-CA VIII-CA	4 20	GRAND-RASSAM	1,555.05	1,/14	0.789	102,349	00,795
00	VIII-CA	27	SIZ II ID-DASSAINI	101.09	1,420	0.120	157,701	17,372

					I otal Area of	Ratio of	lotai	
					Department	Dept. Area	Population in	Population in
Ref. No.	Sub-basin Code	New Department Code	Department Name	Area (km ²)	(km2)	in Basin	Department	Basin
Sub-total	VIII-CA			2,459.07				144,795.42
81	VIII-M1	1	ABENGOUROU	454.68	5,143	0.088	289,581	25,601
81	VIII-M1	3	ABOISSO	2,647.06	4,474	0.592	224,775	132,989
81	VIII-M1	29	GRAND-BASSAM	53.31	1,426	0.037	137,761	5,150
Sub-total	VIII-M1			3,155.05				163,740.14
82	VIII-M2	3	ABOISSO	862.61	4,474	0.193	224,775	43,338
82	VIII-M2	4	ADIAKE	360.67	1,714	0.210	102,349	21,537
Sub-total	VIII-M2			1,223.27		0.40		64,874.26
Total	VIII			6,837.38				373,409.81
90	IX-CA	2	ABIDJAN	1,400.85	2,702	0.518	3,200,658	1,659,374
90	IX-CA	6	AGBOVILLE	33.85	3,887	0.009	244,756	2,132
90	IX-CA	8	ALEPE	208.16	2,176	0.096	96,923	9,272
90	IX-CA	20	DABUU CDAND DASSAM	816.60	2,195	0.372	194,093	/2,20/
90	IX-CA	29	GRAND-BASSAM	99.01	1,426	0.069	13/,/01	9,565
90	IX-CA	30	UACOLIEVILLE	217.55	2,030	0.107	52 063	52 427
90 Sub total	IX-CA		JACQUEVILLE	2 512 60	/43	0.990	52,905	1 914 229 51
01	IX-CA IV M1	2	ADIDIAN	528.01	2 702	0.106	2 200 658	626 510
91	IX-IVII IX-M1	5	ADZOPE	1 3/3 16	5 218	0.190	282 263	72 657
91	IX-M1	6	AGBOVILLE	3 212 75	3 887	0.237	262,205	202 300
91	IX-M1	14	BONGOUANOU	2 339 36	5 593	0.027	244,750	103 004
91	IX-M1	20	DABOU	943.15	2,195	0.430	194,093	83.398
91	IX-M1	51	TIASSALE	105.92	3,442	0.031	177,703	5,468
Sub-total	IX-M1			8,473.24	,		, ,	1,093,345.74
92	IX-M2	2	ABIDJAN	146.69	2,702	0.054	3,200,658	173,764
92	IX-M2	5	ADZOPE	2,460.09	5,218	0.471	282,263	133,076
92	IX-M2	6	AGBOVILLE	623.21	3,887	0.160	244,756	39,242
92	IX-M2	8	ALEPE	771.60	2,176	0.355	96,923	34,368
Sub-total	IX-M2			4,001.59				380,450.93
Total	IX			15,988.43				3,288,025.17
A10	X-CA	25	DIVO	1,095.66	8,139	0.135	534,645	71,973
A10	X-CA	30	GRAND-LAHOU	311.49	2,036	0.153	86,497	13,233
A10	X-CA	44	SASSANDRA	493.43	4,966	0.099	206,346	20,503
Sub-total	X-CA			1,900.59				105,709.48
A11	X-M1	25	DIVO	3,015.24	8,139	0.370	534,645	198,069
A11	X-M1	28	GAGNOA	49.34	4,545	0.011	369,091	4,007
All	X-MI X-MI	36	LAKOIA	1,346.36	2,734	0.492	148,087	72,925
All	X-M1	41	OUME	457.80	2,358	0.194	177,290	34,421
Sub-total	A-MII V M2	25	DIVO	4,808.74	0 120	0.249	524 645	122 786
A12	X-IVIZ X M2	25	CRAND LAHOU	2,021.42	8,139	0.248	234,645	132,/80
A12 Sub_total	X M2	50	UKAND-LAHOU	208.03	2,030	0.102	80,497	141 624 80
	X-IVI2 X M2	25	DIVO	2,229.46	<u> 9 120</u>	0.102	524 645	54 740
A13	X M2	23	GAGNOA	65.02	0,139	0.102	354,043	5 252
Δ13	X-M3	36	ΙΔΚΟΤΔ	1 118 97	2 734	0.013	148 087	60,609
A13	X-M3	44	SASSANDRA	93.86	4.966	0.019	206.346	3,900
Sub-total	X-M3			2.112.20	.,. 50			124.611.29
A14	X-M4	25	DIVO	555.19	8.139	0.068	534.645	36.470
A14	X-M4	44	SASSANDRA	775.24	4,966	0.156	206,346	32,213
Sub-total	X-M4			1,330.43	,		, -	68,682.65
Total	X			12,441.43				750,049.73
A20	XI-CA	43	SAN-PEDRO	890.36	6,848	0.130	417,554	54,289
A20	XI-CA	44	SASSANDRA	192.43	4,966	0.039	206,346	7,996
A20	XI-CA	48	TABOU	272.04	5,851	0.046	128,041	5,953
Sub-total	XI-CA			1,354.83				68,238.20
A21	XI-M1	43	SAN-PEDRO	3,060.97	6,848	0.447	417,554	186,641
A21	XI-M1	47	SOUBRE	331.96	8,540	0.039	635,266	24,693
Sub-total	XI-M1			3,392.93				211,334.71
A22	XI-M2	43	SAN-PEDRO	1,010.88	6,848	0.148	417,554	61,638
A22	XI-M2	44	SASSANDRA	150.18	4,966	0.030	206,346	6,240
Sub-total	XI-M2	/-		1,161.06				67,878.36
A23	XI-M3	43	SAN-PEDRO	1,050.06	6,848	0.153	417,554	64,027
A23	XI-M3	48	TABOU	217.28	5,851	0.037	128,041	4,755
Sub-total	XI-M3	40	CAN DEDDO	1,267.34	6.040	0.050	417.55	68,781.97
A24	XI-M4	43	SAN-PEDKO	477.47	6,848	0.070	417,554	29,114
A24	AI-IVI4	48	TABUU	512.76	5,851	0.053	128,041	0,844
Sub-total	AI-IVI4	10	TADOU	/90.23	E 0 E 1	0.120	120 0.41	33,938.02
AZJ	A1-IVI3	40	IADUU	800.11	3,831	0.138	128,041	17,041

					I otal Area of	Katio of	1 otai	
					Department	Dept. Area	Population in	Population in
Ref. No.	Sub-basin Code	New Department Code	Department Name	Area (km ²)	(km2)	in Basin	Department	Basin
Sub-total	XI-M5			806.11				17,640.57
Total	XI			8,772.50				469,831.83
			Grand Total	322,200.11				14,629,837.49

Note: The Area (km²) is based on the division of GIS Map prepared by the JICA Study Team.

CHAPTER 11 REGULATIONS FOR OPERATION OF DAM (EXAMPLE)

I: GENERAL RULES

Article 1 General rules

The operation of _____ Dam shall be carried out in compliance with these regulations.

Article 2 Use of dam

_____ Dam will be used for the purposes of flood control, irrigation, domestic and municipal water supply and power generation

II: WATER LEVEL, ETC. , OF RESERVOIR

Article 3 Measurement of reservoir water level

The water level of the reservoir shall be measured by means of the water level gauge installed at the intake of the waterway.

Article 4 Measurement of inflow

The running water into the reservoir (hereinafter called "inflow") shall be calculated from the values of fluctuation of water level provided under Article 3.

Article 5 Flood

When the inflow exceeds _____ m^3 /sec, that running water is regarded as a flood.

Article 6 Flood season and non-flood season

The flood season and non-flood season are stipulated below.

(1) Flood season: _____ to _____

(2) Non-flood season: ______ to _____.

Article 7 Irrigation period

(1)First stage: _____ to _____

(2)Second stage: _____ to _____

Article 8 High water level

The high water level of the reservoir is El. _____m, and the water level shall not be raised beyond this limit except for the purpose of flood control

Article 9 Proposed water level for irrigation

The reservoir water level shall not be lowered beyond the proposed water level for the supply of irrigation water required as given in Table of Appendix1(to be prepared) attached hereto, except when the release of water is done in the case stipulated in Article 19. The proposed water level on the standard days is as mentioned below, and the proposed water level on the other days is as indicated in Figure of Appendix 2(to be prepared).

Standard days	Proposed water level on stand	<u>lard days</u>
(1)	EL	m

(2)	EL	m
(3)	 EL	m
(4)	EL.	m

Article 10 Low water level

The low water level of the reservoir is EL. _____m.

III : UTILISATION OF RESERVOIR FOR EACH PURPOSES

Article 11 Use for flood control

Flood control is to be carried out by using the reservoir capacity of

 $_$ m³ between the water level of EL. $_$ m and El. $_$ m.

Article 12 Use for irrigation, domestic and municipal water supply and power generation

The irrigation water supply, domestic and municipal water supply and power generation shall be carried out by using the reservoir capacity of m³ between the water level of EL _____m and EL. ____m

IV: FLOOD CONTROL

Article 13 Flood control

Flood control is to be carried out by using the spillway (open type and /or gated type) spillway. The spillway gate operation shall be used done only when the reservoir water

Level is above EL._____m and in accordance with the gate operation rules (to be prepared as Appendix 3).

Article 14 Precaution at the time of flood.

Precaution at the time of flood shall be made based on the separate regulations (to be prepared as Appendix 4).

V: DISCHARGE STORED WATER

Article 15 Cases of discharging stored water

The water kept in the reservoir may be released in any of cases,

- (1) When the reservoir water level exceeds the high water level,
- (2) When it is used for the purposes of water use stipulated in Article 13 in compliance with the provisions of Article 17 and 18.

- (3) When it is necessary to release the river maintenance flow
- (4) When it is necessary to inspect the conditions of intake facilities and /or the other structures / facilities located generally under the water.
- (5) When it is under unavoidable circumstances(such as abnormal leakage and structural destruction).
- Article 16 Quantity of water to be released

The quantity of water to be released from the dam is as mentioned below:

- (1) Quantity equivalent to inflow discharge in case of Clause 1 of Article 15
- (2) Quantity stipulated under Article 18 in case of Clause 2 of Article 15
- (3) Quantity in accordance with the River Maintenance Flow (to be decided a shown as Appendix 5)
- (4) Quantity limited within maximum _____m³/sec in case of Clause 4 or 5 of Article 15
- Article 17 Discharge for supplying irrigation water and domestic and municipal water

The discharge for the purpose of supplying irrigation water and domestic and municipal water shall be within _____m³/sec, and the water shall be released through the (<u>name of facility</u>). The discharge shall not be smaller than the figures shown in attached Table of Appendix 1, except when such a discharge is subject to restriction under the provision of Article 19. When it is anticipated that the discharge would be lower than the figures mentioned in attached Table of Appendix1 superintendent of _____Dam Management Office or Association /Group(hereinafter called "superintendent") shall notify the related agencies in advance.

Article 18 Discharge for power station

For the power generation, the flow shall be regulated most effectively in accordance with the load fluctuation and within the limits provided under Article 9 and 17.

Article 19 Special cases of releasing

The superintendent shall not release, in case the water level gets lower than the secure water level stipulated under Article 9 or the discharge gets smaller than the discharge stipulated under Article 17, due to an abnormal drought or the maintenance work. And inspection of the structures and facilities must get the consent of the persons or groups having the right of water use.

VI: INSPECTION AND MAINTENANCE

Article 20 Inspection and Maintenance

In order to keep good condition of all the machines and utensils for the operation of the dam and spillways, the equipment for warning, communication and observation, the boats for the vigilance, the vehicles for warning, and the materials for their operation, the superintendent must make inspections and adjustments, and must carry out timely the test running of power source in accordance with the Inspection and Maintenance Guide/Manual (to be prepared as Appendix 6)

VII: RECORDS, ETC.

Article 21 Records at the time of releasing

The superintendent is required to keep the records of all the matters mentioned in the following clauses whenever the water has been released in compliance with the provisions of Clauses 1 of Article 15, by filling in the recording forms (to be prepared as Appendix 7).

- (1) Meteorological and hydrological conditions
- (2) Discharge from the spillways and the water level fluctuation of the reservoir.
- (3) Condition of damages done to the dam, related facilities of the dam, related facilities of the dam, the reservoir and the areas upstream and downstream of the reservoir.
- (4) Matters relative to warnings issued and directions made following the releasing
- (5) Other matters which require to be recorded specially.

Article 22 Records of investigations

The superintendent is required to keep records on the results of inspections and adjustments made in compliance with the provision of Article 20, and also the results of investigations or measurements made in compliance with the provision of Article 21.

Article 23 Monthly report and annual report

The superintendent is required to prepare the monthly report and the annual report on the management of the dam in compliance with the regulations (to be prepared).

VIII: MISCELLANEOUS RULES

Article 24 Bylaws

The superintendent shall prepare bylaws for the purpose of enforcement of these regulations, obtain the approval for the same from the Water Authority/National Water Agency in charge (to be established) and report the same to the related offices / agencies / associations. The same shall apply for the revision of these regulations.

IX: APPENDIXES

APPENDIX 1: Table for proposed Water Level for irrigation water supply
APPENDIX 2: Figure for restriction of Reservoir Water Level
APPENDIX 3: Gate Operation Rules
APPENDIX 4: Flood Precaution / Warning
APPENDIX 5: River Maintenance Flow
APPENDIX 6: Inspection and Maintenance Guide/Manual
APPENDIX 7: Recording Forms
APPENDIX 8: Regulations and Forms for Monthly Report and Annual Report

The appendixes are necessary to be prepared individually and definitely. The engineering studies based on the relevant data will be required to prepare them. The contents may be different remarkably by the different conditions of facilities and surrounding circumstances.