

TABLE 3 SELECTED 89 RAINFALL STATIONS AND MEAN MONTHLY RAINFALL (1/3)

IIA	Station	SHA	Coordinate		Mean Monthly Rainfall in the 1980's (mm)												
			Lat.	Long.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Total
I	Dustin-Ma Junior School	1010	12°30'	7°30'	0	0	1	5	48	89	163	226	153	2	0	0	687
	Funtua Mairuwa Dam	1030	11°36'	7°13'	0	3	3	24	85	97	167	251	116	29	0	0	775
	Gusau Aerodrome	1040	12°10'	6°42'	0	0	6	12	76	99	196	222	164	9	0	0	784
	Sokoto Aerodrome	1042	13°04'	5°13'	0	0	3	1	31	96	140	170	86	8	0	0	535
	Kalmalo	1052	13°45'	5°14'	0	0	0	2	4	38	142	117	59	7	0	0	369
	Anka Dam	1082	12°07'	5°55'	0	0	7	13	82	96	196	226	141	7	0	0	768
	Yelwa	1104	10°53'	4°45'	0	0	25	25	90	110	216	219	160	25	0	0	870
	Kainji Dam	1113	10°10'	4°38'	0	0	8	53	132	137	163	228	190	59	0	0	970
II	Egudu	2040	8°05'	4°50'	18	38	88	148	227	274	258	259	341	248	28	9	1,936
	Ilorin Agba River W.W.	2040	8°29'	4°35'	6	6	67	87	132	185	117	169	214	124	2	6	1,115
	Bactia Sugar Company	2051	9°05'	4°57'	0	5	25	71	153	176	183	179	203	72	1	0	1,068
	Shika Agric	2111	11°14'	7°33'	0	0	5	28	99	138	227	257	151	41	0	0	946
	Birnin Gwarl	2060	10°35'	6°34'	0	0	14	41	126	142	192	277	260	93	0	0	1,151
	Kontagora	2060	10°20'	5°30'	0	4	30	34	106	109	191	251	213	59	7	0	1,004
	Ikara Town	2111	11°10'	8°05'	0	2	8	41	73	123	202	267	148	26	0	0	890
	Saminaka	2111	10°23'	8°48'	0	5	5	62	193	180	220	269	201	46	0	0	1,181
	Kaduna South	2122	10°30'	7°26'	0	0	5	40	110	165	225	307	240	63	0	0	1,155
	Kauru Town	2112	10°35'	8°09'	0	1	7	31	115	171	253	320	216	60	0	0	1,174
	Miango Kent Academy	2121	9°51'	8°43'	0	1	24	105	180	211	298	302	223	55	0	0	1,399
	Jebba Hydropower Station	2012	9°34'	4°30'	2	2	23	49	148	179	152	187	210	88	1	0	1,041
	Sunti Sugar Company	2072	9°02'	5°15'	1	0	5	44	121	161	166	185	182	72	0	0	937
	Shiroro Gorge NEPA	2132	9°59'	6°43'	0	0	10	49	114	162	200	274	270	75	4	0	1,158
	Minna Met.	2141	9°37'	6°31'	0	0	22	38	134	161	203	236	211	77	3	0	1,085
	Bida Met.	2141	9°06'	6°06'	0	0	18	57	127	157	226	218	187	76	0	0	1,066
	Lapai	2150	9°05'	6°37'	0	2	17	92	107	161	206	180	178	76	1	0	1,020
	Kafanchan Town	2161	9°36'	8°18'	3	1	20	75	159	223	275	301	264	158	12	0	1,491
Abuja Met.	2162	9°15'	7°00'	3	3	33	47	117	188	227	297	301	125	6	0	1,347	
III	Bauchi Aerodrome	3042	10°17'	9°49'	0	0	6	19	93	141	234	242	139	22	0	0	896
	Alkali (UBRBDA)	3080	10°14'	10°21'	0	0	9	23	62	140	157	198	110	32	0	0	731
	Bajoga	3042	10°52'	11°27'	0	0	0	7	37	86	194	175	84	29	0	0	612
	Billiri (UBRBDA)	3050	9°51'	11°13'	0	0	5	16	72	117	168	126	171	37	0	0	712
	Deba (UBRBDA)	3050	10°25'	11°23'	0	0	3	16	76	113	168	185	159	36	0	0	755
	Yola	3013	9°14'	12°28'	0	0	9	44	125	119	214	221	136	58	1	9	927
	Kojoli	3022	8°41'	12°28'	0	0	20	41	102	141	194	163	201	58	3	0	920
	Talasse (UBRBDA)	3052	9°57'	11°43'	0	0	6	12	73	115	167	190	143	37	0	0	743
	Zing	3070	9°00'	11°40'	0	0	6	41	118	109	177	193	184	69	0	0	897
	Tumu (UBRBDA)	3080	10°03'	11°05'	0	0	8	38	63	123	165	149	115	39	0	0	700
	Mayo Belwa	3022	9°10'	12°05'	0	0	5	53	116	153	196	242	146	67	0	0	978
	Numan	3034	9°21'	12°02'	0	0	4	33	101	97	172	177	134	39	0	0	757
	Nafada (BSADP)	3042	11°06'	11°21'	0	0	0	0	5	42	78	114	146	76	10	0	471
	Kumo (UBRBDA)	3050	10°05'	11°11'	0	0	1	29	71	138	173	162	153	15	0	0	732
	Ganye	3022	8°27'	12°08'	3	0	21	34	99	167	219	253	232	65	0	0	1,093
Duku	3042	10°50'	10°47'	0	0	0	22	56	96	141	198	116	36	0	0	665	

TABLE 3 SELECTED 89 RAINFALL STATIONS AND MEAN MONTHLY RAINFALL (2/3)

HA	Station	SHA	Coordinate		Mean Monthly Rainfall in the 1980's (mm)												
			Lat.	Long.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Total
III	Garkida	3032	10°26'	12°35'	0	0	4	32	80	109	188	158	152	59	2	0	784
	Manya	3140	7°15'	10°12'	0	4	40	106	184	222	251	310	319	184	10	0	1,630
	Gindin Dorowa	3113	8°10'	10°03'	0	0	8	63	134	155	176	209	201	103	1	0	1,050
	Serti	3130	7°24'	11°32'	7	6	50	78	150	249	345	309	323	151	6	0	1,674
	Bali	3130	7°51'	10°57'	5	5	26	60	238	291	361	390	460	232	2	0	2,070
	Bibinu	3008	6°58'	10°47'	6	10	59	54	227	293	307	340	321	166	7	0	1,790
	Baissa	3140	7°14'	10°40'	7	1	40	97	209	222	281	363	362	260	13	0	1,855
	Donga	3140	7°43'	10°01'	2	0	16	75	140	174	215	210	296	165	4	0	1,297
	Song	3012	9°49'	12°45'	0	0	8	12	60	110	170	171	157	58	3	0	749
	Suntai Bakundi	3122	7°41'	10°21'	6	3	36	101	181	216	264	267	352	147	6	0	1,579
Gembu	3140	6°41'	11°17'	12	11	124	161	184	207	279	274	305	191	29	4	1,781	
IV	Ibi	4021	7°52'	9°43'	0	1	14	44	141	117	209	189	204	81	0	0	1,000
	Lafia (LADP)	4072	8°30'	8°30'	0	3	26	71	140	130	219	240	230	80	3	0	1,142
	Keffi (PADP)	4083	8°50'	7°52'	0	7	37	49	132	136	204	245	233	84	4	0	1,131
	Jos University	4030	9°52'	8°55'	0	1	20	69	159	207	280	326	183	28	0	30	1,273
V	Yonagoa Farm	5050	4°55'	6°16'	28	38	174	202	262	403	403	322	465	297	79	30	2,703
	Port Harcourt	5050	4°45'	6°50'	15	39	108	153	248	294	338	296	389	211	63	10	2,164
	Onitsha	5041	6°09'	6°47'	5	29	78	87	220	239	306	236	306	178	25	7	1,716
	Nsukka University	5020	6°52'	7°24'	4	11	59	73	181	186	250	238	302	164	25	7	1,500
	Lokoja	5011	7°48'	6°44'	4	15	33	76	144	159	209	186	212	102	2	0	1,142
VI	Ikeja Met.	6032	6°35'	3°20'	10	29	69	104	186	297	153	131	199	123	57	14	1,372
	Abeokuta	6023	7°15'	3°18'	2	25	62	111	196	211	177	114	185	106	21	5	1,215
	Ijebu Ode	6040	6°50'	3°55'	9	24	81	95	211	240	201	166	219	164	28	6	1,444
	Sepeteri	6022	8°38'	3°39'	4	14	51	80	131	148	158	148	182	87	6	3	1,012
	Oyo Met.	6023	7°50'	3°57'	6	23	60	103	137	140	175	123	212	123	28	14	1,144
	Oshogbo Met.	6051	7°47'	4°29'	3	26	67	113	163	192	132	148	230	198	39	8	1,319
	Akure Met.	6080	7°16'	5°13'	5	43	111	126	187	201	165	215	234	130	29	0	1,446
	Ubiaja Agric	6100	6°39'	6°06'	10	27	72	92	168	160	224	189	209	110	13	0	1,274
	Benin City	6100	6°19'	5°36'	13	51	95	109	190	212	272	289	327	242	46	10	1,856
	Warri Met.	6100	5°31'	5°44'	15	53	121	167	276	346	450	392	429	324	99	39	2,711
Forcados Sheel BP	6093	5°21'	5°26'	45	44	146	183	327	489	699	416	592	336	98	42	3,417	
VII	Calabar Aerodrome	7072	4°58'	8°21'	20	27	156	199	325	434	423	319	397	308	131	26	2,765
	Ibesit NIFOR	7054	4°55'	7°45'	32	37	154	130	363	286	265	325	307	239	71	8	2,217
	Oweri Met.	7051	5°29'	7°02'	31	21	125	154	258	351	336	340	395	249	55	14	2,329
	Uyo Met.	7080	5°03'	7°55'	43	21	126	168	277	252	305	263	302	208	75	21	2,051
	Akwete Rubber Estate	7053	4°52'	7°21'	29	19	133	179	276	256	341	299	322	215	95	20	2,184
Enugu Met.	7032	6°26'	7°33'	6	9	57	106	228	207	241	260	296	167	16	0	1,593	

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HA	Station	SHA	Coordinate		Mean Monthly Rainfall in the 1980's (mm)												
			Lat.	Long.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Total
VIII	Flagore Agric	8041	10°45'	8°50'	0	0	7	17	113	120	231	274	137	17	0	0	916
	Kano Met.	8024	12°03'	8°32'	0	1	0	8	41	93	182	241	96	22	0	0	684
	Nguru Met.	8082	12°53'	10°28'	0	0	2	4	5	41	90	137	52	2	0	0	333
	Ningi (BSADP)	8052	11°03'	9°34'	0	0	2	9	37	118	174	262	131	9	0	0	742
	Jama'are Agric	8052	11°42'	9°56'	0	0	4	11	48	69	134	191	84	20	0	0	561
	Potiskum Met.	8102	11°42'	11°02'	0	0	0	24	40	89	184	199	84	14	0	0	634
	Marguba Vet.	8134	11°42'	12°35'	0	0	2	8	33	49	134	158	54	0	0	0	438
	Maiduguri Met.	8133	11°51'	13°00'	0	0	1	7	23	59	137	139	84	5	0	0	455
	Bama Agric	8142	11°32'	13°42'	0	0	0	2	20	61	109	167	98	22	1	0	480

TABLE 4 YEARLY RAINFALL AT SELECTED 89 STATIONS (1/3)

Note: - : Not Available
* : Intermittent

HA	Rainfall Station	SHA	Yearly Rainfall (mm)																					
			1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989		
I	Dutsin-Ma Jnr. School	1010	*	741	-	-	-	1,069	-	*	935	782	*	705	645	440	*	665	625	-	776	-		
	Funtua Mairuwa Dam	1030	-	-	-	-	-	-	-	865	987	1,597	824	777	1,037	677	633	985	701	597	848	672		
	Gusau Aerodrome	1040	833	809	741	722	852	866	885	766	1,013	1,097	896	787	711	846	675	856	814	686	-	-		
	Sokoto Aerodrome	1042	634	483	609	390	476	-	874	812	690	600	661	586	568	621	466	435	475	323	697	525		
	Kalmalo	1052	-	-	-	-	-	455	-	282	531	378	522	299	297	324	457	321	368	-	-	-		
	Anka Dam	1082	811	789	726	703	831	843	862	746	1,097	1,077	873	756	691	824	656	807	-	-	-	-		
	Yelwa	1104	981	991	928	811	1,077	974	872	864	884	1,014	882	896	1,073	584	971	792	1,009	746	-	-		
	Kainji Dam	1113	790	1,094	898	910	939	890	815	871	938	1,134	1,001	964	1,034	640	1,050	980	1,028	949	860	1,179		
	II	Egudu	2040	1,363	1,326	1,333	1,359	1,664	1,710	1,552	938	1,185	2,016	2,119	1,493	1,538	1,072	1,829	2,084	2,055	2,547	2,302	2,300	
Ilorin Agba River W.W.		2040	1,030	1,116	1,017	1,546	1,081	1,088	1,126	931	1,137	1,304	984	1,243	1,281	800	1,336	976	1,182	1,162	998	1,208		
Bactia Sugar Company		2051	892	1,072	801	998	1,191	1,160	1,062	1,109	957	1,115	885	1,233	880	862	1,068	1,502	949	976	880	1,436		
Shika Agric.		2111	935	978	990	966	1,108	857	1,281	771	1,205	1,089	728	1,078	715	618	1,025	1,229	1,071	1,151	1,070	768		
Birnin Gwari		2060	1,178	1,443	1,178	975	1,230	1,408	1,342	1,086	1,445	1,438	1,049	1,079	1,334	1,110	1,168	1,330	1,269	1,122	1,189	862		
Kontagora		2060	1,107	914	931	742	1,078	1,321	1,392	982	1,283	1,385	824	1,233	969	543	1,688	1,110	1,003	*	863	1,144		
Ikara Town		2111	-	-	-	-	-	-	-	-	1,103	1,162	957	378	895	702	1,085	1,094	1,024	921	1,072	766		
Saminaka		2111	-	-	-	-	-	-	-	-	852	1,102	977	1,420	1,306	1,042	1,090	990	1,091	926	1,183	1,392	1,357	
Kaduna South		2122	1,168	1,266	1,348	1,492	1,199	1,372	1,243	1,025	1,596	1,128	1,224	1,321	1,197	968	1,025	1,177	1,105	1,097	1,369	1,061		
Kauru Town		2112	-	-	-	-	-	-	-	-	-	-	-	-	-	1,383	1,184	1,006	952	1,324	932	1,039	1,520	1,228
Miango Kent Academy		2121	1,191	1,547	1,300	1,371	1,685	1,571	1,645	1,384	1,785	1,620	1,602	1,356	1,413	1,430	1,291	1,308	-	-	-	-		
Jebba Hydropower Station		2012	-	-	-	-	-	-	-	-	-	-	-	-	997	906	1,163	1,406	946	809	960	1,126		
Sunti Sugar Company		2072	-	-	-	-	-	-	-	-	-	-	995	874	938	*	754	866	964	877	831	1,214		
Shiroro Gorge NEPA		2132	1,144	1,341	1,019	*	1,230	*	1,307	1,298	1,548	1,467	1,037	1,042	1,426	879	1,081	1,400	1,318	979	1,324	1,079		
Minna Met.		2141	1,111	1,148	1,370	974	1,131	1,389	1,227	1,655	1,523	1,349	1,126	1,006	1,100	989	1,200	1,224	1,209	826	-	-		
Bida Met.		2141	1,251	1,158	837	1,159	1,280	1,386	1,118	1,080	1,408	917	1,278	1,085	997	899	1,168	1,167	1,080	1,060	888	1,029		
Lapai		2150	1,258	1,124	994	1,150	1,143	1,224	1,211	1,070	1,556	1,228	1,432	931	576	595	930	1,014	1,102	*	959	1,089		
Kafanchan Town		2161	-	-	-	-	2,240	2,033	1,530	1,327	2,066	1,658	1,917	1,725	1,230	1,152	1,461	1,590	1,460	1,550	1,530	1,281		
Abuja Met.	2162	-	-	-	-	-	-	-	-	-	-	-	-	1,297	1,308	1,230	1,513	1,560	1,384	1,239	1,226			
III	Bauchi Aerodrome	3042	898	1,100	973	739	1,171	1,140	1,249	816	1,140	991	989	1,243	903	769	884	722	972	738	843	892		
	Alkali (UBRBDA)	3080	-	-	-	-	-	-	-	-	-	-	-	*	855	533	654	835	708	455	-	904		
	Bajoga	3042	-	-	-	-	-	-	-	-	-	-	-	-	492	498	646	506	541	795	*			
	Billiri (UBRBDA)	3050	-	-	-	-	-	-	-	834	782	799	825	612	602	605	740	801	848	372	-	1,008		
	Deba (UBRBDA)	3050	-	-	-	-	-	-	-	640	732	886	683	771	792	713	725	819	671	450	960	960		
	Yola	3013	-	-	-	-	-	-	-	893	994	1,153	1,043	964	957	882	967	972	901	679	-	983		
	Kojoli	3022	-	-	-	-	-	-	-	-	-	-	-	*	973	940	863	903	1,031	929	-	797		
	Talasse (UBRBDA)	3052	-	-	-	-	-	-	-	807	873	821	634	834	739	*	713	785	737	600	-	859		

TABLE 4 YEARLY RAINFALL AT SELECTED 89 STATIONS (2/3)

IIA	Rainfall Station	SIIA	Yearly Rainfall (mm)																			
			1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
III	Zing	3070	-	-	-	-	-	-	-	-	-	951	982	793	877	751	980	933	-	-	-	
	Tumu (UBRBDA)	3080	-	-	-	-	-	-	665	793	923	921	669	769	*	614	788	562	*	-	738	
	Mayo Belwa	3022	-	-	-	-	-	-	-	-	-	1,048	831	1,247	863	786	1,239	981	825	-	-	
	Numan	3034	-	-	-	-	-	-	623	885	887	712	970	679	753	866	855	621	480	-	862	
	Nafada (BSADP)	3042	-	-	-	-	-	-	-	-	-	-	-	-	581	305	531	423	449	715	219	
	Kumo (UBRBDA)	3050	-	-	-	-	-	-	*	947	822	656	929	685	780	741	821	581	585	934	722	
	Ganye	3022	-	-	-	-	-	-	1,109	1,249	1,069	*	1,329	894	937	820	1,316	1,183	985	-	-	
	Duku	3042	-	-	-	-	-	-	-	-	-	-	-	-	514	728	518	600	500	803	884	
	Garkida	3032	-	-	-	-	-	-	857	906	986	759	927	892	*	699	704	900	679	-	-	
	Manya	3140	-	-	-	-	-	-	-	-	2,082	1,749	2,175	1,837	1,106	1,564	1,585	1,656	1,443	-	1,828	
	Gindin Dorowa	3113	-	-	-	-	-	-	-	-	-	1,259	1,160	1,173	*	1,084	1,124	751	1,041	-	-	
	Seteri	3130	-	-	-	-	-	-	-	-	-	-	1,731	1,635	1,390	2,025	1,915	1,683	1,332	-	-	
	Bali	3130	-	-	-	-	-	-	-	-	-	-	1,743	2,456	1,832	2,620	1,824	1,735	2,125	-	*	
	Bibinu	3008	-	-	-	-	-	-	-	-	-	-	-	*	2,024	1,337	*	1,703	2,447	1,554	-	*
	Baissa	3140	-	-	-	-	-	-	-	-	-	1,855	2,359	*	1,302	1,880	1,558	1,833	1,923	-	-	
	Donga	3140	-	-	-	-	-	-	-	-	1,320	1,398	1,306	1,247	1,143	*	1,762	1,200	1,270	1,219	-	1,368
	Song	3012	-	-	-	-	-	-	-	-	-	-	-	-	-	684	638	835	966	503	-	861
Suntai Bakundi	3122	-	-	-	-	-	-	-	-	-	1,972	1,726	1,515	1,407	*	1,630	1,537	1,390	-	-		
Gembu	3140	-	-	-	-	-	-	596	1,068	823	965	749	884	716	941	759	639	509	993	1,059		
IV	Ibi	4021	-	-	-	-	-	-	-	1,203	1,879	1,115	1,125	916	784	1,367	873	929	906	-	994	
	Lafia (LADP)	4072	-	-	-	-	-	-	-	-	-	1,155	985	1,015	1,054	1,170	1,051	1,107	1,292	1,135	1,450	
	Keffi (PADP)	4083	-	-	-	-	-	-	1,552	1,649	895	1,094	1,250	1,185	*	859	1,144	1,288	1,232	1,158	1,195	
	Jos University	4030	-	-	-	-	-	-	1,163	1,550	1,161	1,049	1,477	1,233	1,253	1,447	1,063	1,536	-	1,165	1,230	
V	Yonagoa Farm	5050	-	-	-	2,440	2,808	2,700	2,700	1,879	2,487	*	*	2,309	3,324	2,074	2,759	3,099	1,992	2,908	3,375	2,660
	Port Harcourt	5050	-	-	-	-	-	-	-	-	-	-	-	2,160	1,988	1,629	2,102	2,397	2,284	*	2,422	2,135
	Onitsha	5041	-	-	-	-	1,659	1,397	2,065	1,829	1,796	1,823	1,681	1,842	1,719	1,416	1,711	1,848	1,649	1,503	2,003	1,786
	Nsukka University	5020	*	1,753	*	1,671	1,697	1,270	1,533	1,175	1,754	*	1,831	*	1,699	999	1,637	1,595	1,273	1,653	1,231	1,465
	Lokoja	5011	1,276	1,409	1,247	941	1,071	1,236	1,048	918	1,538	1,119	1,126	1,148	853	835	1,137	977	1,314	1,172	1,331	1,520
VI	Ikeja Met.	6032	-	-	-	-	-	-	-	-	-	-	1,686	1,470	1,033	895	1,376	1,229	1,040	1,676	1,939	1,369
	Abeokuta	6023	-	-	-	-	-	-	-	-	-	-	-	*	865	903	1,031	1,526	1,211	*	1,576	1,224
	Ijebu Ode	6040	-	-	-	-	-	-	-	-	-	1,686	1,907	1,774	1,125	1,255	1,378	1,356	1,029	1,503	1,658	1,446
	Sepeteri	6022	-	-	-	-	-	-	-	-	-	-	-	813	819	922	1,214	819	1,092	1,291	1,128	
	Oyo Met.	6023	-	-	-	-	-	-	-	-	-	-	1,438	981	921	726	1,549	1,584	1,023	1,155	1,038	1,016
	Oshogbo Met.	6051	-	-	-	-	-	-	-	-	-	-	1,470	1,181	1,131	1,090	1,391	1,657	1,279	1,369	1,428	1,192
	Akure Met.	6080	-	-	-	-	-	-	-	-	-	-	1,753	1,381	1,312	1,288	1,564	1,648	1,162	1,401	1,484	1,457

TABLE 4 YEARLY RAINFALL AT SELECTED 89 STATIONS (3/3)

HA	Rainfall Station	SHA	Yearly Rainfall (mm)																			
			1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
VI	Ubiaja Agric.	6100	-	-	-	-	-	-	-	-	-	-	1,376	1,104	1,291	831	1,569	1,359	1,210	*	*	1,317
	Benin City	6100	-	-	-	-	-	-	-	-	-	-	2,645	1,786	1,968	1,647	1,248	1,569	1,238	2,343	2,149	1,967
	Warri Met.	6100	-	-	-	-	-	-	-	-	-	-	2,504	2,350	3,065	2,523	2,699	2,977	2,916	2,776	2,711	2,572
	Farcados Shell BP	6093	-	-	-	-	-	-	-	-	-	-	*	*	3,230	3,233	3,318	3,853	3,026	3,985	3,158	3,778
VII	Calabar Aerodrome	7072	2,818	-	2,957	2,110	2,559	2,668	3,032	2,647	3,298	2,817	3,255	2,768	2,809	2,347	2,499	2,965	2,610	*	2,712	2,748
	Ibesit NIFOR	7054	2,035	2,318	2,724	2,252	1,942	2,326	1,906	1,413	2,531	1,893	2,102	2,561	2,030	1,677	2,174	2,657	2,318	2,119	2,138	2,395
	Oweri Met.	7051	-	-	-	-	2,494	2,132	2,381	1,867	2,397	2,686	2,398	2,433	2,429	1,758	2,156	2,399	2,484	2,076	2,564	2,584
	Uyo Met.	7080	-	-	-	-	-	-	-	-	-	-	-	2,654	*	1,663	1,755	2,471	1,759	2,146	2,241	*
	Akwete Rubber Estate	7053	-	-	2,217	2,046	1,963	2,282	2,118	2,095	2,001	2,593	2,456	2,499	2,349	1,781	2,313	2,567	2,263	1,836	1,926	1,831
	Enugu Met.	7032	*	1,915	1,596	1,557	1,979	1,451	1,827	1,546	1,988	1,696	2,092	1,647	1,566	902	1,782	1,932	1,451	1,453	1,459	1,643
VIII	Flagore Agric	8041	-	-	-	-	-	-	-	-	-	1,025	1,103	832	846	734	537	947	1,220	967	-	1,057
	Kano Met.	8024	922	704	669	416	424	713	542	786	931	723	914	576	638	498	586	634	733	515	1,049	699
	Nguru Met.	8082	533	461	248	258	551	558	431	509	497	588	341	429	409	237	332	419	245	250	322	339
	Ningi (BSADP)	8052	-	-	-	-	-	-	-	-	-	-	-	-	*	447	569	718	815	565	1,137	940
	Jama'are Agric	8052	-	-	-	-	-	-	-	-	-	-	-	-	435	448	271	*	748	460	798	696
	Potiskum Met.	8102	574	627	686	403	892	595	631	678	593	738	684	556	574	525	462	544	806	369	968	856
	Marguba Vet.	8134	699	-	-	-	-	452	-	-	-	-	-	-	-	217	385	464	661	469	-	-
	Maiduguri Met.	8133	740	502	434	433	613	671	690	658	726	631	622	462	354	265	347	414	509	326	624	608
	Bama Agric	8142	698	701	536	491	654	645	-	658	843	-	657	448	453	359	332	-	-	355	686	544

TABLE 5 LIST OF SELECTED 90 RIVER GAGING STATIONS (2/3)

HA	SHA	Gauging Station	River	River Basin	Catchment Area (km ²)	Coordinate		Length of Runoff Data Collected																		
						N	E	1960's				1970's				1980's										
								1	2	3	4	1	2	3	4	1	2	3	4							
III	3140	Mbu/Tepkwar	Donga	Benue	2,120	06°42'	11°08'																			
	3122	Manya	Donga	Benue	6,350	07°19'	10°15'																			
	3113	Donga	Donga	Benue	11,910	07°43'	10°05'					○	▲	▲	▲	○	○	○	▲	▲	▲	-	-	-	-	
	3122	Gindin Dorowa	Donga	Benue	18,800	08°05'	10°03'																			
	3122	Suntai Bakundi	Suntai	Donga	2,600	07°41'	10°27'																			
	3121	Bantaji	Suntai	Donga	5,350	08°10'	10°10'																			
	3111	Bali	Taraba	Benue	10,850	07°52'	10°58'																▲	○	○	○
	3113	Tela	Taraba	Benue	-	08°26'	10°29'																			
	3112	Gassol	Taraba	Benue	20,700	08°31'	10°31'						○	▲	○	○	○	○	○	▲	○	○	○	○	○	○
	3111	Maisamari	Jigwal	Taraba	562	07°06'	11°08'																			
	3070	Gombe Abba	Gongola	Benue	17,650	10°50'	10°30'																			
	3052	Dadin Kowa	Gongola	Benue	30,460	10°18'	11°29'						▲	○	○	○	○	○	○	○	○	○	○	○	○	○
	3032	Garkida	Hawal	Gongola	-	10°28'	12°33'																			
	IV	4052	Katsina Ala Hydropower	Katsina Ala	Benue	16,770	07°15'	09°20'																		
4053		Sevav	Katsina Ala	Benue	22,100	07°28'	09°13'																			
VI	6022	Sepeteri	Ogun	Ogun	1,060	08°38'	03°39'																			
	6021	Ofiki Town	Ofiki	Ogun	438	08°28'	03°19'																			
	6021	Iganna	Ofiki	Ogun	2,780	08°06'	03°14'																			
	6021	Ihaji-Ile Road	Oyan	Ogun	1,460	07°58'	03°02'																			
	6052	Apoje	Oshun	Oshun	8,170	06°59'	04°07'																			
	6051	Awe-Ife Odan	Oba	Oshun	930	08°06'	04°09'																			
	6051	Oyo-Ogbomosho Road	Oba	Oshun	1,580	07°50'	04°04'																			
VII	7041	Ikrom	Cross	Cross	16,900	05°29'	08°43'																			
	7042	Adonatam	Cross	Cross	18,900	06°09'	08°28'																			
	7043	Obubra	Cross	Cross	35,800	06°06'	08°20'																			
	7060	Afikpo	Cross	Cross	46,200	05°51'	07°52'																			
	7060	Ikot Okpara	Cross	Cross	48,300	05°24'	08°04'																			
	7052	Ugwu NKPA	Eme	Imo	230	05°35'	07°26'																			
	7051	Ulakwo	Oramiriukwa	Imo	795	05°25'	07°07'																			
	7052	Ndimoko	Imo	Imo	160	05°52'	07°15'																			
	7052	Umuna	Imo	Imo	490	05°47'	07°18'																			
	7052	Umuopara	Imo	Imo	1,450	05°33'	07°25'																			
	7052	Obigbo	Imo	Imo	6,600	04°52'	07°11'																			

Note: ○ : Available ▲ : Intermittent - : Not available

TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
BENUE RIVER (1/6)

- Unit: MCM -

Station Particulars	Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station : Wuro Boki	1960	187	109	86	*170	*440	544	3,385	8,635	10,894	7,165	1,475	450	33,540
River : Benue	1961	265	123	88	60	*160	187	2,799	3,310	*9,310	*3,480	*970	*670	21,422
River Basin : Niger	1962	112	51	*100	*140	*300	653	1,339	4,042	10,109	*5,900	1,172	474	24,392
Coordinate	1963	190	92	62	62	196	257	1,663	6,900	9,365	6,134	1,293	394	26,608
- Lat. : 09°22'	1964	134	80	59	75	171	285	1,722	5,340	7,574	*4,530	*1,420	510	21,900
- Long. : 12°50'	1965	560	375	316	251	388	739	1,931	6,369	7,014	2,720	897	450	22,010
Catchment Area (km ²) : 103,680	1966	284	155	80	67	380	1,441	1,773	3,798	8,961	3,969	1,291	592	22,791
Year Established : 1954	1967	356	232	142	88	169	604	2,483	3,814	5,959	3,648	920	528	18,943
	1968	340	227	153	80	182	902	2,553	4,818	7,133	*3,440	*690	*350	20,868
	1969	522	373	337	404	569	1,343	*3,110	*8,730	*9,940	6,002	2,084	1,018	34,432
	Mean	295	182	142	140	296	696	2,276	5,576	8,626	4,699	1,221	544	24,693
	1970	622	361	268	197	391	689	1,745	5,738	9,402	3,589	1,401	600	25,003
	1971	378	232	185	62	-	168	2,286	4,232	-	1,946	412	214	-
	1972	129	80	51	75	139	635	1,726	3,404	3,416	2,594	477	188	12,914
	1973	-	-	-	-	-	-	1,546	4,143	5,421	3,082	-	-	-
	1974	-	-	-	-	-	-	1,715	3,205	4,496	4,768	-	-	-
	1975	-	-	-	-	-	-	2,278	4,039	-	-	-	-	-
	1976	279	162	110	75	153	502	2,259	4,446	3,522	4,374	1,681	536	18,099
	1977	303	186	129	54	86	381	2,045	3,744	6,625	2,575	611	292	17,031
	1978	180	94	62	124	464	894	2,088	3,846	7,817	3,283	1,026	426	20,304
	1979	255	162	113	80	528	935	1,962	3,980	4,859	1,881	798	279	15,832
	Mean	307	182	131	95	294	601	1,965	4,078	5,695	3,121	915	362	17,746
	1980	-	-	-	-	-	-	-	-	-	-	-	-	-
	1981	-	-	-	-	-	-	-	-	-	-	-	-	-
	1982	330	174	131	127	241	-	1,294	2,726	-	2,267	699	322	-
	1983	-	-	96	-	300	306	941	1,704	2,932	1,037	389	297	-
	1984	239	211	241	215	252	259	-	-	-	-	-	-	-
	1985	-	-	-	-	-	-	-	-	-	-	-	-	-
	1986	-	-	-	-	-	-	-	-	-	-	-	-	-
	1987	-	-	-	-	-	-	-	-	-	-	-	-	-
	1988	-	-	-	-	-	-	-	-	-	-	-	-	-
	1989	-	-	-	-	-	-	-	-	-	-	-	-	-
	Mean	-	-	-	-	-	-	-	-	-	-	-	-	-

Note: (*) shows assumed value based on runoff correlation between Yola and Wuro Boki.

**TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
BENUE RIVER (2/6)**

-Unit: MCM-

Station Particulars		Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station	: Yola	1960	206	116	75	96	265	612	3,873	8,482	12,317	7,564	1,843	718	36,167
River	: Benue	1961	404	181	115	65	94	456	3,142	3,648	10,365	3,592	915	565	23,542
River Basin	: Niger	1962	190	72	62	80	182	832	1,663	3,924	9,834	5,874	1,200	562	24,475
Coordinate		1963	321	189	145	117	287	378	2,089	7,114	10,879	6,088	1,540	485	29,632
- Lat.	: 09°14'	1964	257	142	96	161	238	485	1,918	3,059	6,978	4,668	1,335	429	19,766
- Long.	: 12°28'	1965	222	111	67	39	126	547	1,920	6,851	7,763	3,171	679	287	21,783
Catchment Area (km ²)	: 108,400	1966	161	75	43	26	319	1,330	1,902	4,152	9,803	-	-	-	-
Year Established	: 1914	1967	170	80	121	78	131	399	2,496	4,125	6,591	4,339	741	608	19,879
		1968	179	99	67	47	80	630	2,515	5,614	9,388	3,549	653	292	23,113
		1969	155	94	80	52	54	557	3,581	9,420	11,024	6,996	2,136	573	34,722
		Mean	227	116	87	76	178	623	2,510	5,639	9,494	5,093	1,227	502	25,772
		1970	297	152	83	54	129	319	1,356	6,344	13,641	4,259	1,487	649	28,770
		1971	407	162	67	49	51	233	2,466	4,955	7,731	4,068	1,831	1,225	23,245
		1972	823	-	-	-	426	1,036	2,865	4,074	4,613	4,288	738	442	-
		1973	276	167	113	21	169	414	1,069	5,674	6,102	-	-	574	-
		1974	472	409	533	480	456	526	1,667	3,838	5,216	5,052	2,261	1,747	22,657
		1975	1,257	363	-	-	-	-	2,227	6,555	8,658	5,858	-	831	-
		1976	740	370	250	168	257	660	2,388	5,108	4,007	5,073	2,442	791	22,254
		1977	448	346	198	124	129	492	2,235	4,296	-	2,074	953	536	-
		1978	337	213	166	236	625	985	2,196	4,095	9,200	4,026	1,387	825	24,191
		1979	504	249	187	153	504	876	1,867	4,626	5,956	2,175	972	528	18,597
		Mean	556	270	200	161	294	616	2,034	4,957	7,236	4,097	1,509	815	22,745
		1980	337	203	163	111	233	578	2,204	6,254	-	-	-	-	-
		1981	480	399	201	106	236	443	1,685	3,439	6,210	2,823	993	565	17,580
		1982	348	242	187	174	249	500	1,288	3,359	4,220	2,319	884	490	14,260
		1983	337	254	171	158	311	552	1,002	1,725	3,484	1,205	516	458	10,173
		1984	410	341	372	355	442	417	948	1,543	2,201	1,835	568	410	9,842
		1985	343	283	287	272	305	547	1,789	3,244	4,404	1,602	674	474	14,224
		1986	303	327	367	376	404	534	1,087	4,470	4,155	2,212	700	394	15,329
		1987	346	293	295	316	388	552	710	1,414	2,820	1,998	505	388	10,025
		1988	356	288	268	238	-	-	-	-	-	-	-	-	-
		1989	351	336	450	391	627	502	766	4,639	6,263	2,291	1,134	761	18,511
		Mean	361	297	276	250	355	514	1,275	3,343	4,220	2,036	747	493	14,167

**TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
BENUE RIVER (3/6)**

- Unit: MCM -

Station Particulars		Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station	: Agwan Taru	1970	418	177	62	0	0	212	1,294	8,346	16,519	9,948	1,595	367	38,938
River	: Benue	1971	121	44	0	0	0	153	2,329	7,274	11,759	4,829	982	252	27,743
River Basin	: Niger	1972	107	39	0	0	0	75	1,667	5,148	8,462	4,173	935	155	20,761
Coordinate		1973	35	0	0	0	0	80	1,168	7,713	9,327	4,971	668	145	24,107
- Lat.	: 08°40'	1974	5	0	0	0	24	-	2,031	6,193	8,677	6,973	1,062	268	-
- Long.	: 10°25'	1975	70	24	0	0	0	192	1,292	8,383	14,385	14,169	-	584	-
Catchment Area (km ²)	: 206,700	1976	268	152	88	18	16	391	2,131	6,831	6,853	5,917	3,727	576	26,968
Year Established	: 1955	1977	222	102	62	0	0	88	1,780	6,483	11,368	6,009	1,220	292	27,626
		1978	91	36	0	0	356	749	2,514	5,845	12,310	7,560	1,818	831	32,110
		1979	228	36	0	0	161	805	1,729	4,781	10,329	3,811	984	316	23,180
		Mean	157	61	21	2	56	305	1,794	6,700	10,999	6,836	1,443	379	28,753

**TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
BENUE RIVER (4/6)**

- Unit: MCM -

Station Particulars		Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station	: Ibi	1980	461	181	62	74	407	1,903	5,279	14,831	24,139	17,430	5,927	1,419	72,113
River	: Benue	1981	861	442	261	203	835	1,525	6,945	13,941	21,837	14,296	-	426	-
River Basin	: Niger	1982	619	325	289	266	625	1,488	5,390	9,444	16,572	15,651	6,886	1,493	59,048
Coordinate		1983	370	184	99	174	275	935	2,012	3,787	8,319	3,604	299	87	20,145
- Lat.	: 08°11'	1984	-	-	-	-	-	-	1,410	4,368	6,459	4,759	1,283	442	-
- Long.	: 09°45'	1985	338	191	157	445	374	1,589	4,087	11,369	17,931	9,868	2,587	597	49,533
Catchment Area (km ²)	: 258,700	1986	250	174	158	328	248	867	3,280	10,378	13,240	10,949	3,701	999	44,572
Year Established	: 1915	1987	371	43	-	-	-	283	2,143	4,883	10,585	9,945	1,523	-	-
		1988	-	-	-	-	-	-	-	8,547	19,724	19,993	3,240	1,119	-
		1989	-	-	311	354	1,384	2,030	5,561	13,254	23,457	17,247	-	-	-
		Mean	467	220	191	263	593	1,328	4,012	9,480	16,226	12,374	3,181	823	49,158

TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
BENUE RIVER (5/6)

- Unit: MCM -

Station Particulars	Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station : Makurdi	1960	911	581	557	718	1,382	3,214	10,740	19,354	28,281	33,576	11,959	3,763	115,036
River : Benue	1961	1,478	888	745	850	1,018	2,488	10,914	12,660	19,940	29,221	3,834	2,373	86,409
River Basin : Niger	1962	1,050	694	825	1,283	-	-	-	-	28,263	32,615	12,729	4,979	-
Coordinate	1963	2,076	1,033	854	1,083	3,000	3,730	11,849	18,990	29,938	30,869	11,775	3,391	118,588
- Lat. : 07°45'	1964	1,669	977	897	1,122	2,065	4,487	9,988	13,590	23,613	30,052	13,279	3,790	105,529
- Long. : 08°32'	1965	1,987	1,200	1,130	1,029	1,454	4,313	9,321	19,705	27,994	23,198	6,451	2,486	100,268
Catchment Area (km ²) : 305,500	1966	1,457	975	849	1,081	3,166	9,808	11,174	15,219	27,260	28,461	9,725	3,171	112,346
Year Established : 1914	1967	1,441	927	937	946	1,430	2,976	9,602	15,741	23,240	26,455	8,590	723	93,008
	1968	536	-	-	-	-	-	-	-	-	-	4,479	-	-
	1969	1,138	448	455	467	455	6,721	14,876	26,776	35,899	31,873	11,223	4,639	134,970
	Mean	1,374	858	805	953	1,746	4,717	11,058	17,754	27,159	29,591	9,404	3,257	108,676
	1970	-	-	-	-	-	-	7,284	18,058	31,430	27,631	8,860	1,809	-
	1971	1,809	939	949	1,083	1,072	2,673	12,960	17,819	23,411	22,204	5,054	1,900	91,873
	1972	1,000	651	702	824	1,367	5,253	8,461	14,207	23,981	20,596	5,843	1,828	84,713
	1973	1,005	595	549	580	780	1,450	4,623	13,947	20,332	16,249	4,330	1,410	65,850
	1974	791	540	552	723	1,447	3,639	9,337	15,624	24,204	24,908	8,581	750	91,096
	1975	911	586	584	627	954	2,277	6,917	16,171	24,934	32,790	8,578	2,854	98,183
	1976	1,112	692	683	655	1,554	4,408	9,927	17,758	19,712	20,572	15,053	2,956	95,082
	1977	1,077	600	555	610	632	1,298	7,426	12,036	24,507	25,556	4,478	1,233	80,008
	1978	689	503	536	616	1,624	5,346	9,600	15,630	26,081	23,474	9,964	2,128	96,191
	1979	858	545	547	539	1,225	2,202	10,433	16,426	25,675	16,284	6,361	1,597	82,692
	Mean	1,028	628	629	695	1,184	3,172	8,697	15,768	24,427	23,026	7,710	1,847	88,811
	1980	750	528	547	522	705	2,202	5,923	18,765	28,306	24,324	7,244	1,729	91,545
	1981	730	508	482	518	1,217	2,461	10,452	17,688	27,195	19,066	4,618	1,225	86,160
	1982	713	535	603	583	879	2,176	9,380	14,638	22,533	21,571	6,788	1,597	81,996
	1983	-	-	-	-	705	1,818	5,958	10,500	18,912	10,329	1,746	804	-
	1984	622	436	402	606	866	2,147	8,485	13,711	16,700	13,421	3,696	716	61,808
	1985	678	491	536	663	753	2,002	12,877	22,397	23,792	16,793	3,095	1,182	85,259
	1986	713	496	574	614	777	1,849	7,073	14,051	17,527	15,858	3,939	1,168	64,639
	1987	702	519	536	550	574	1,572	3,430	5,379	17,001	6,507	3,087	1,005	40,862
	1988	630	501	579	583	817	1,886	4,162	16,694	24,771	26,800	6,734	1,616	85,773
	1989	836	508	536	557	1,993	2,368	8,351	18,409	28,291	25,543	10,497	1,838	99,727
	Mean	708	502	533	577	929	2,048	7,609	15,223	22,503	18,021	5,144	1,288	75,085

TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
BENUE RIVER (6/6)

- Unit: MCM -

Station Particulars	Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station : Umaisha	1970	2,304	915	731	525	790	1,571	4,886	9,393	29,048	33,434	11,315	4,396	99,308
River : Benue	1971	1,669	686	618	663	745	1,735	4,618	11,027	-	20,485	-	1,357	-
River Basin : Niger	1972	-	-	-	547	1,178	-	7,884	14,785	26,815	21,313	14,064	6,679	-
Coordinate	1973	504	-	-	253	470	916	2,835	13,680	21,508	17,306	4,250	1,004	-
- Lat. : 08°00'	1974	-	-	166	279	911	2,402	9,066	15,695	25,664	28,174	9,310	1,655	-
- Long. : 07°14'	1975	-	-	-	-	655	1,487	6,578	18,068	-	-	13,043	5,425	-
Catchment Area (km ²) : 335,000	1976	-	-	365	383	859	3,057	9,386	18,041	20,565	23,034	16,777	6,229	-
Year Established : 1955	1977	-	-	-	-	218	776	6,236	11,898	25,299	29,451	4,922	911	-
	1978	*460	-	-	-	-	4,019	9,425	17,717	29,471	29,271	11,557	1,695	-
	1979	*690	*270	217	206	814	4,683	10,398	17,714	26,099	19,451	6,428	1,251	88,221
	Mean	1,125	624	419	408	738	2,294	7,131	14,802	25,559	24,658	10,185	3,060	91,003
	1980	522	236	153	149	417	1,818	13,450	19,586	-	-	-	-	-
	1981	*620	259	183	203	1,185	1,770	9,244	19,223	33,624	22,777	5,718	1,183	95,989
	1982	*500	443	437	433	627	1,517	-	13,700	21,686	21,967	6,819	1,233	-
	1983	650	457	376	339	484	1,410	5,315	10,294	17,609	10,751	1,235	455	49,376
	1984	281	195	185	255	505	998	5,140	14,963	16,536	13,432	3,649	681	56,820
	1985	384	224	181	455	491	1,856	8,359	16,824	26,607	18,200	*3,100	*1,130	77,811
	1986	*500	*200	446	657	969	1,317	5,564	13,233	19,579	20,619	6,922	747	70,753
	1987	976	615	537	633	604	2,329	5,444	9,983	20,784	20,302	3,696	756	66,659
	1988	428	284	288	265	896	2,802	6,114	16,745	35,617	-	-	-	-
	1989	528	267	197	190	1,068	2,642	10,631	17,166	29,294	28,378	6,265	965	97,591
	Mean	539	318	298	358	725	1,846	7,696	15,172	24,593	19,553	4,676	894	76,668

Note: (*) shows assumed value based on runoff correlation between Makurdi and Umaisha.

**TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
RIVER NIGER (1/8)**

- Unit: MCM -

Station Particulars		Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station	: Jiddere Bode	1970	5,770	5,662	6,029	3,641	1,219	451	533	2,998	6,164	5,633	4,124	4,538	46,762
River	: Niger	1971	4,742	4,266	2,612	856	198	24	987	2,035	5,853	4,709	4,090	4,690	35,062
River Basin	: Niger	1972	4,286	5,036	2,092	619	204	214	570	2,601	4,264	4,319	3,952	4,499	32,656
Coordinate		1973	4,326	2,585	1,167	266	4	211	478	2,133	3,534	3,840	3,764	4,167	26,475
- Lat.	: 11°23'	1974	3,687	1,795	710	149	0	14	1,007	3,323	6,553	6,100	4,500	4,843	32,681
- Long.	: 04°07'	1975	4,939	4,038	1,775	447	128	48	622	2,261	5,169	5,473	4,371	4,852	34,123
Catchment Area (km ²)	: 563,500	1976	5,125	4,833	3,159	1,113	453	478	566	2,125	3,525	3,985	4,191	4,329	33,882
Year Established	: 1968	1977	4,691	4,516	4,111	2,562	345	473	729	2,237	3,963	3,727	3,422	3,874	34,650
		1978	3,650	2,054	826	355	370	531	690	2,798	5,423	4,148	4,044	4,397	29,286
		1979	4,732	3,979	2,127	585	139	271	810	2,317	5,471	5,721	4,688	4,934	35,774
		Mean	4,595	3,876	2,461	1,059	306	272	699	2,483	4,992	4,766	4,115	4,512	34,136
		1980	5,144	4,211	1,962	513	94	319	1,770	2,781	3,895	3,857	3,720	4,146	32,412
		1981	3,834	2,159	948	196	79	136	804	2,272	4,097	4,146	3,988	4,409	27,068
		1982	4,536	3,656	1,198	374	175	187	639	3,018	4,163	3,670	3,625	3,777	29,018
		1983	3,236	1,562	672	151	4	211	737	2,028	3,176	3,396	3,243	3,549	21,965
		1984	2,419	1,082	461	113	86	227	261	1,218	2,672	3,570	3,024	2,890	18,023
		1985	1,771	740	298	33	1	110	1,048	3,115	4,625	4,083	3,574	4,085	23,483
		1986	3,294	1,430	675	155	139	179	1,052	2,038	3,625	3,708	3,471	3,553	23,319
		1987	2,726	1,243	613	219	105	482	541	1,505	2,769	3,457	3,166	3,423	20,249
		1988	2,578	1,169	496	208	148	415	1,262	3,079	6,978	5,746	4,001	4,166	30,876
		1989	2,944	1,251	596	233	145	225	1,034	2,901	4,317	4,006	3,390	3,530	24,572
		Mean	3,248	1,850	792	220	98	249	915	2,459	4,032	3,964	3,520	3,753	25,100

**TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
RIVER NIGER (2/8)**

- Unit: MCM -

Station Particulars	Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station : Kainji Dam	1970	5,245	5,193	5,791	4,628	2,870	2,515	3,002	4,486	3,657	5,826	6,066	6,507	55,786
	1971	4,090	3,991	3,288	2,196	2,334	4,794	3,109	3,524	2,797	2,680	2,631	2,838	38,272
River : Niger	1972	4,384	2,781	2,983	2,846	2,822	2,647	2,495	1,509	1,355	1,404	1,427	3,570	30,223
River Basin : Niger	1973	3,430	2,848	1,780	1,440	1,662	1,645	1,747	1,662	1,590	1,643	1,966	2,506	23,919
Coordinate	1974	3,208	2,057	1,613	1,419	1,528	2,986	1,616	3,516	5,444	3,436	3,276	4,020	34,119
	1975	4,776	4,000	2,546	2,380	2,171	2,067	2,441	2,953	2,142	2,251	3,463	4,186	35,376
- Lat. : -	1976	4,762	4,390	3,200	2,411	2,573	2,660	2,956	2,616	2,233	1,771	1,849	1,718	33,139
- Long. : -	1977	2,270	3,509	3,907	2,991	2,471	2,181	2,653	3,280	2,771	2,811	1,997	1,664	32,505
Catchment	1978	1,694	1,539	1,680	1,526	1,536	2,088	2,187	1,723	1,668	2,401	2,416	2,522	22,980
	1979	3,173	3,020	2,259	1,764	1,962	2,155	2,760	3,873	3,336	3,455	2,647	3,321	33,725
Area (km ²) : 569,800	Mean	3,703	3,333	2,905	2,360	2,193	2,574	2,497	2,914	2,699	2,768	2,774	3,285	34,005
	1980	3,706	3,891	2,337	2,440	2,090	2,082	2,326	2,139	2,606	1,803	2,416	2,270	30,106
	1981	2,034	2,045	2,039	2,012	2,184	2,126	1,948	1,900	2,178	2,584	2,059	1,353	24,462
	1982	2,900	2,439	2,182	2,448	2,637	1,958	1,905	2,549	1,570	1,654	1,782	1,922	25,946
	1983	1,498	1,464	2,123	2,044	2,085	1,753	1,962	1,989	1,557	1,704	1,378	1,139	20,696
	1984	1,270	978	1,083	1,124	1,343	1,923	1,726	1,672	1,292	1,160	1,318	1,664	16,553
	1985	1,412	1,256	1,289	1,121	1,085	997	681	737	2,025	2,680	1,873	2,910	18,066
	1986	2,752	1,578	1,806	1,834	1,855	2,015	1,747	1,648	1,261	1,509	1,852	1,696	21,553
	1987	1,860	1,733	1,847	1,717	1,613	1,966	1,522	1,367	1,238	1,182	1,598	1,812	19,455
	1988	2,080	1,399	1,227	2,069	1,118	844	871	1,621	4,191	3,865	2,362	3,323	24,970
	1989	2,278	1,437	1,592	1,997	2,208	1,497	1,605	1,763	1,823	1,139	2,248	2,806	22,393
	Mean	2,179	1,822	1,753	1,881	1,822	1,716	1,629	1,739	1,974	1,928	1,889	2,090	22,422

**TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
RIVER NIGER (3/8)**

- Unit: MCM -

Station Particulars	Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station : Jebba Power	1980	-	-	-	-	-	-	-	-	-	-	-	-	-
	1981	-	-	-	-	-	-	-	-	-	-	-	-	-
	1982	-	-	-	-	-	-	-	-	-	-	-	-	-
River : Niger	1983	-	-	-	-	-	-	-	-	-	-	-	-	-
River Basin : Niger	1984	-	983	1,139	1,137	1,402	1,616	2,123	2,326	2,062	2,144	1,186	1,378	-
Coordinate	1985	1,568	1,307	1,294	1,204	1,209	938	879	1,503	3,890	3,599	1,860	2,843	22,094
	1986	2,747	1,566	1,750	1,655	2,072	1,987	2,128	2,002	1,639	2,031	2,126	1,769	23,472
- Lat. : 09°09'	1987	2,034	1,721	1,873	1,637	1,656	2,367	1,801	1,852	2,380	2,064	1,831	1,849	23,065
- Long. : 04°50'	1988	2,117	1,336	1,402	2,178	1,203	956	1,238	2,179	6,452	4,872	2,587	3,061	29,581
Catchment	1989	2,656	1,483	1,538	1,927	2,240	1,857	1,809	2,785	3,515	3,929	1,790	2,458	27,987
	Mean	2,224	1,339	1,499	1,623	1,630	1,620	1,663	2,108	3,323	3,107	1,897	2,226	24,319

TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
RIVER NIGER (4/8)

- Unit: MCM -

Station Particulars	Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station : Baro	1960													
River : Niger	1961	-	-	-	3,445	1,117	640	2,989	6,958	11,949	12,712	5,215	4,272	-
River Basin : Niger	1962	4,438	4,192	4,101	1,664	485	920	3,252	6,910	18,787	20,217	9,891	5,560	80,417
Coordinate	1963	4,987	4,701	5,327	4,764	2,178	1,332	3,959	11,030	15,013	16,060	8,424	4,901	82,676
- Lat. : 08°35'	1964	4,794	4,618	4,848	3,097	1,270	1,760	2,089	8,041	17,649	16,228	6,638	4,968	76,000
- Long. : 06°23'	1965	4,832	4,674	5,362	4,207	1,993	1,840	3,035	8,330	14,277	13,890	6,262	4,912	73,614
Catchment Area (km ²) : 730,300	1966	4,939	4,413	4,722	2,589	1,366	2,499	3,385	7,877	16,000	15,570	6,578	4,837	74,775
Year Established : 1914	1967	4,885	4,701	5,100	2,862	1,184	495	2,893	6,814	15,531	17,680	7,361	5,346	74,852
	1968	5,547	5,598	6,152	5,039	2,654	2,748	6,792	15,444	14,310	8,019	5,202	4,733	82,238
	1969	4,489	4,821	4,052	2,991	3,115	2,042	5,542	9,356	15,549	11,038	8,186	5,373	76,554
	Mean	4,864	4,715	4,958	3,406	1,707	1,586	3,771	8,973	15,452	14,602	7,084	4,989	76,107
	1970	5,481	5,435	6,097	5,245	3,106	3,103	4,701	9,728	14,864	10,396	4,538	3,934	76,628
	1971	4,023	4,160	3,409	2,126	2,439	2,896	5,084	10,699	13,885	8,927	3,271	2,873	63,792
	1972	3,776	3,954	2,865	2,515	2,835	3,663	3,985	6,298	9,239	4,934	1,572	3,004	48,640
	1973	3,339	2,720	1,603	1,103	1,364	1,660	2,396	6,378	8,850	6,700	2,362	2,517	40,992
	1974	2,980	1,970	1,410	1,098	1,704	1,712	2,951	6,660	13,937	12,703	4,711	4,339	56,175
	1975	4,470	4,266	2,760	2,393	2,608	2,655	5,438	6,587	11,538	9,978	4,631	4,411	61,735
	1976	4,762	4,516	3,516	2,427	2,948	3,851	5,046	5,097	5,835	10,015	6,115	2,299	56,427
	1977	2,013	3,202	4,178	3,015	2,969	3,872	3,446	4,283	9,176	9,072	2,414	1,860	49,500
	1978	1,629	1,425	1,522	1,562	1,916	3,271	5,116	6,759	11,862	9,273	4,766	2,543	51,644
	1979	3,007	2,732	2,077	1,797	2,190	2,958	5,719	11,143	15,177	10,350	4,470	3,806	65,426
	Mean	3,548	3,438	2,944	2,328	2,408	2,964	4,388	7,363	11,436	9,235	3,885	3,159	57,096
	1980													
	1981	2,191	2,035	2,108	2,061	2,676	2,854	4,883	7,813	12,177	8,397	3,201	2,338	52,734
	1982	2,807	2,422	2,121	2,449	2,799	2,595	3,817	5,625	6,555	5,951	2,841	2,178	42,160
	1983	1,623	1,398	2,078	1,957	2,062	2,112	2,866	3,782	4,588	2,290	1,192	991	26,939
	1984	1,037	1,004	1,002	1,050	1,377	1,991	2,885	3,838	4,044	4,042	1,566	1,304	25,140
	1985	1,438	1,272	1,197	1,122	1,267	1,361	2,266	7,186	13,808	11,375	3,385	3,452	49,129
	1986	3,996	2,189	1,797	1,752	2,084	2,522	2,689	3,447	7,366	6,693	3,139	2,188	39,862
	1987	2,244	1,923	2,705	3,248	2,914	3,123	2,571	3,766	8,839	7,430	2,659	2,625	44,047
	1988	2,464	1,911	1,888	4,256	4,339	3,301	2,303	3,669	11,288	11,972	3,473	3,766	54,630
	1989	3,104	1,863	1,768	2,216	4,537	-	-	7,679	12,807	7,907	3,953	4,095	-
	Mean	2,323	1,780	1,852	2,235	2,673	2,482	3,035	5,201	9,052	7,340	2,823	2,549	43,345

TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
RIVER NIGER (5/8)

- Unit: MCM -

Station Particulars	Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station : Lokoja	1960	5,992	5,003	4,998	4,025	3,367	4,476	14,932	29,594	47,988	60,114	23,649	8,927	213,065
River : Niger	1961	6,803	5,412	5,287	4,093	2,619	2,867	13,920	21,858	32,081	41,617	12,250	5,946	154,753
River Basin : Niger	1962	5,499	4,570	4,553	3,219	3,086	5,656	12,918	26,736	52,711	62,439	25,529	11,233	218,149
Coordinate	1963	7,162	5,620	5,903	4,940	4,502	4,717	11,279	31,546	50,671	55,071	23,160	7,529	212,100
- Lat. : 07°49'	1964	6,257	4,865	5,102	4,025	3,112	4,904	11,308	22,402	44,645	55,794	22,576	8,793	193,783
- Long. : 06°44'	1965	6,717	5,690	5,917	4,795	3,501	5,135	12,417	29,623	48,247	43,511	14,111	7,317	186,981
Catchment Area (km ²) : 1,089,500	1966	6,013	5,092	5,156	3,427	3,755	11,825	16,536	25,469	49,510	53,796	18,274	8,308	207,161
Year Established : 1914	1967	6,192	5,221	5,394	3,445	2,488	3,463	12,634	24,673	42,055	52,850	17,193	7,958	183,566
	1968	6,707	5,813	6,409	5,568	4,749	10,205	20,150	36,831	48,955	42,013	13,294	20,720	221,414
	1969	5,909	5,458	4,835	4,243	5,359	6,905	21,095	39,689	61,010	58,244	28,113	10,304	251,164
	Mean	6,325	5,274	5,355	4,178	3,654	6,015	14,719	28,842	47,787	52,545	19,815	9,704	204,213
	1970	775	6,712	7,142	6,173	4,412	5,927	10,961	28,598	52,388	46,500	13,805	6,846	190,239
	1971	5,856	5,219	4,371	3,392	3,559	5,037	13,628	32,341	45,679	36,470	8,993	5,041	169,586
	1972	5,509	5,218	3,874	3,672	4,177	8,176	11,958	21,749	36,161	27,549	8,051	5,052	141,146
	1973	4,736	3,767	2,580	2,172	2,795	3,481	6,193	20,820	31,838	26,229	7,746	4,423	116,780
	1974	4,389	3,014	2,427	2,157	3,636	4,718	12,791	23,485	41,354	45,972	15,467	7,405	166,815
	1975	6,592	5,485	3,637	3,363	3,880	4,602	12,866	29,218	38,952	52,661	15,230	8,067	184,553
	1976	6,832	6,248	4,824	3,389	4,652	7,670	14,543	26,380	27,271	32,409	24,578	5,629	164,425
	1977	3,507	4,671	5,968	4,271	4,096	5,085	10,614	18,546	36,088	40,703	9,400	3,985	146,934
	1978	3,209	2,735	2,894	3,008	4,217	8,695	16,147	27,151	44,181	41,897	17,739	6,106	177,979
	1979	4,761	4,674	3,893	3,364	8,216	16,711	29,590	29,597	46,320	32,696	12,417	6,979	199,218
	Mean	4,617	4,774	4,161	3,496	4,364	7,010	13,929	25,789	40,023	38,309	13,343	5,953	165,768
	1980	5,619	2,993	3,606	3,553	3,839	5,938	10,821	35,702	38,355	61,089	12,726	3,506	187,747
	1981	3,791	3,439	3,518	3,423	4,746	6,020	16,564	29,213	46,601	34,474	9,952	4,479	166,220
	1982	4,717	4,037	3,289	3,993	4,608	5,067	13,245	20,331	29,906	29,463	10,299	4,233	133,188
	1983	3,220	2,585	3,607	3,372	3,903	4,653	9,144	17,724	23,665	14,548	3,412	2,303	92,136
	1984	2,303	2,386	2,340	3,235	3,011	4,354	9,449	15,940	22,125	18,569	2,070	4,015	89,797
	1985	3,070	2,826	2,966	2,686	5,612	4,487	11,834	22,935	41,246	32,885	9,017	5,805	145,369
	1986	5,320	3,035	3,199	3,270	3,837	5,369	9,470	17,089	29,360	29,627	10,889	4,405	124,870
	1987	4,053	2,994	4,443	5,056	5,525	6,523	8,091	14,107	30,477	28,730	6,514	4,280	120,793
	1988	3,872	3,185	2,878	5,723	5,117	4,924	7,557	16,664	40,077	41,936	9,399	7,081	148,413
	1989	6,324	4,661	2,859	3,833	8,400	6,361	12,681	25,515	42,259	41,403	10,464	5,792	170,552
	Mean	4,229	3,214	3,271	3,814	4,860	5,370	10,886	21,522	34,407	33,272	8,474	4,590	137,909

TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
RIVER NIGER (6/8)

- Unit: MCM -

Station Particulars	Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station : Idah	1970	6,181	3,938	3,992	7,957	7,311	7,922	9,062	25,599	50,445	46,995	12,438	6,177	188,017
River : Niger	1971	5,870	4,494	4,876	4,546	4,466	4,503	11,738	30,347	45,924	35,308	8,462	5,033	165,567
River Basin : Niger	1972	4,572	4,299	4,596	4,322	4,452	7,363	10,609	19,434	36,185	27,146	8,718	5,223	136,919
Coordinate	1973	4,824	4,025	4,278	4,035	-	4,030	-	19,143	32,453	26,115	8,425	-	-
- Lat. : 07°06'	1974	4,371	3,223	2,796	2,223	-	-	12,555	22,375	40,581	46,454	16,248	7,372	-
- Long. : 06°43'	1975	6,229	5,259	-	3,285	4,079	5,650	-	28,267	37,964	53,004	15,657	1,590	-
Catchment	1976	7,071	6,498	5,450	4,178	5,405	8,545	14,806	24,309	27,808	32,087	12,521	7,513	156,191
Area (km ²) : 1,095,100	1977	3,486	4,910	5,891	4,438	4,536	5,648	11,375	18,520	35,129	53,448	11,010	5,924	164,315
Year Established : 1955	1978	4,956	4,282	4,652	4,540	5,817	9,402	15,546	25,840	43,814	42,662	18,574	-	-
	1979	3,265	4,709	4,854	4,448	5,319	11,014	16,856	27,336	45,760	-	-	6,092	-
	Mean	5,083	4,564	4,598	4,397	5,173	7,120	12,818	24,117	39,606	40,358	12,450	5,616	165,900
	1980	5,306	-	4,704	4,303	6,312	6,876	12,267	26,305	49,531	35,430	12,251	-	-
	1981	-	1,600	3,697	3,681	5,369	6,846	15,633	27,606	44,917	35,435	10,026	-	-
	1982	5,520	4,732	4,026	4,396	4,942	5,079	11,502	19,244	28,084	39,010	11,040	6,346	143,921
	1983	6,277	5,811	5,858	5,694	5,903	5,894	9,227	14,492	22,338	15,417	6,101	5,995	109,007
	1984	6,064	5,477	5,918	5,895	6,135	6,110	9,870	-	20,798	17,914	8,647	7,136	-
	1985	6,906	5,955	6,693	6,504	6,724	7,027	11,376	22,607	26,310	32,426	9,706	7,532	149,766
	1986	6,848	5,999	6,592	6,495	6,805	6,881	9,198	16,621	27,582	30,255	10,641	6,988	140,905
	1987	6,673	6,006	6,670	6,441	6,760	6,350	8,298	13,058	29,925	28,485	8,075	6,422	133,163
	1988	6,164	5,683	5,816	5,888	6,314	-	8,173	15,038	39,083	43,240	10,404	6,440	-
	1989	-	5,390	5,981	5,878	6,685	6,665	11,745	23,950	42,893	42,357	-	7,206	-
	Mean	6,220	5,184	5,596	5,518	6,195	6,414	10,729	19,880	33,146	31,997	9,655	6,758	147,292

TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
RIVER NIGER (7/8)

- Unit: MCM -

Station Particulars	Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station : Onitsha	1960													
River : Niger	1961	7,358	5,409	5,520	4,474	2,973	3,069	14,611	15,371	30,400	43,000	14,907	6,867	153,959
River Basin : Niger	1962	5,539	4,739	4,642	3,494	3,241	5,848	14,686	25,204	49,227	67,710	34,246	12,580	231,156
Coordinate	1963	7,714	6,154	6,760	5,174	5,266	5,270	10,010	30,716	48,636	57,722	29,378	9,390	222,190
- Lat. : 06°10'	1964	6,798	5,492	5,609	4,717	3,736	5,772	11,316	22,900	39,279	59,752	26,563	9,873	201,807
- Long. : 06°45'	1965	7,170	5,010	5,560	5,347	4,063	5,474	13,467	29,853	46,687	47,609	16,705	8,073	195,018
Catchment Area (km ²) : 1,100,800	1966	6,584	5,255	5,534	3,955	4,213	11,397	17,069	24,526	45,153	57,848	21,780	9,144	212,458
Year Established : 1914	1967	6,914	5,711	5,816	-	-	-	-	-	-	-	-	-	-
	1968	-	-	-	-	-	-	-	-	-	-	-	-	-
	1969	-	-	-	-	-	-	-	-	-	-	-	-	-
	Mean	6,868	5,396	5,634	4,527	3,915	6,138	13,527	24,762	43,230	55,607	23,930	9,321	202,855
	1970	-	-	-	-	-	6,698	11,361	26,103	-	-	-	-	-
	1971	6,078	5,201	4,564	3,574	3,591	5,385	13,944	31,482	46,102	43,076	11,818	5,741	180,556
	1972	4,583	4,850	3,642	3,616	4,478	10,425	13,931	22,986	38,539	30,908	11,839	5,534	155,331
	1973	4,398	3,603	2,854	1,987	2,466	3,393	6,561	21,014	31,906	30,748	10,518	5,183	124,631
	1974	3,781	2,585	2,031	1,738	3,543	5,242	15,541	24,602	50,091	51,804	20,404	8,991	190,353
	1975	6,478	5,097	3,232	2,748	3,645	4,968	12,508	28,810	35,183	53,975	19,358	8,935	184,937
	1976	6,705	5,549	4,620	3,124	4,371	8,203	15,587	24,568	28,446	32,141	29,759	*9,420	172,493
	1977	*3,480	4,480	4,220	2,810	3,473	4,703	11,620	19,648	34,133	42,231	14,082	4,945	149,825
	1978	3,484	2,234	2,128	2,673	4,752	9,858	16,643	26,494	41,233	45,139	21,355	9,115	185,108
	1979	-	-	-	-	-	-	-	-	46,734	35,684	15,483	7,903	-
	Mean	4,873	4,200	3,411	2,784	3,790	6,542	13,077	25,079	39,152	40,634	17,180	7,307	168,029
	1980	5,414	5,019	3,457	2,815	3,733	6,680	12,044	28,740	43,406	39,474	20,842	5,907	177,531
	1981	4,044	2,889	2,648	2,489	4,360	6,408	17,492	28,982	46,462	39,991	18,089	5,569	179,423
	1982	4,612	3,938	3,026	3,958	4,714	6,459	14,737	21,652	30,101	31,546	17,014	8,766	150,523
	1983	4,942	3,896	4,234	4,362	4,912	6,050	11,792	11,269	26,195	22,078	4,823	2,492	107,045
	1984	*3,810	3,270	3,110	3,340	2,937	5,965	12,800	19,264	27,205	22,282	8,974	3,795	116,752
	1985	2,471	1,825	1,734	2,082	2,476	4,960	11,430	26,658	38,314	35,304	7,327	5,454	140,035
	1986	3,465	2,405	2,407	2,720	2,986	5,152	7,984	*17,600	29,363	32,792	9,205	5,119	121,198
	1987	3,420	2,333	3,055	3,582	3,929	4,856	9,535	15,161	30,243	32,640	13,828	3,398	125,980
	1988	2,919	2,485	-	3,002	3,505	4,737	8,764	16,635	-	-	-	-	-
	1989	-	3,416	2,156	2,092	7,486	6,882	14,196	25,922	41,184	42,881	14,658	-	-
	Mean	3,900	3,148	2,870	3,044	4,140	5,815	12,077	21,188	34,719	33,221	12,751	5,063	141,900

**TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
RIVER NIGER (8/8)**

- Unit: MCM -

Station Particulars		Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station	: Aboh	1970													
River	: Niger	1971													
River Basin	: Niger	1972													
Coordinate		1973													
- Lat.	: 05°32'	1974													
- Long.	: 06°31'	1975	8,782	7,700	5,893	5,335	6,362	7,234	13,842	31,490	35,996	50,489	22,064	11,098	206,285
Catchment Area (km ²)	: 1,112,800	1976	9,273	7,679	7,357	5,662	6,888	10,026	16,463	25,824	30,142	34,269	31,070	10,238	194,891
Year Established	: 1954	1977	6,590	6,031	7,282	5,636	5,617	6,762	12,735	19,856	36,224	45,614	15,183	6,912	174,442
		1978	4,942	3,942	4,001	4,232	6,652	11,243	17,672	27,612	42,142	45,927	23,686	9,637	201,688
		1979	7,453	5,895	5,473	4,385	5,867	10,184	17,755	30,271	45,729	38,908	16,441	10,428	198,789
		Mean													
		1980	8,195	7,420	6,132	5,170	6,244	8,583	13,255	29,649	44,115	41,218	18,003	9,616	197,600
		1981	6,960	5,486	5,454	5,154	7,131	8,876	18,082	29,855	45,455	41,484	15,123	8,115	197,175
		1982	7,332	6,328	5,448	5,931	7,174	8,578	15,378	21,496	32,160	34,269	15,651	8,587	168,332
		1983	6,317	4,593	5,162	5,001	5,657	7,374	12,304	16,804	25,162	20,639	7,793	5,306	122,112
		1984	4,342	3,674	3,532	3,898	5,140	7,490	11,929	18,781	24,566	23,238	11,365	6,692	124,647
		1985	5,132	4,196	4,183	4,626	5,154	7,135	13,649	22,989	39,052	38,128	13,613	9,286	167,143
		1986	8,212	5,651	5,684	5,996	6,566	8,420	12,258	18,728	29,593	34,690	14,794	8,865	159,457
		1987	10,063	5,813	6,598	6,532	7,512	8,026	11,280	15,608	31,725	34,111	11,549	-	-
		1988													
		1989													
		Mean	7,069	5,395	5,274	5,289	6,322	8,060	13,517	21,739	33,979	33,472	13,486	8,067	161,669

TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
HA-1(1/11)

-Unit:MCM-

Station Particulars	Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station : Gusau	1970	0	0	0	0	19	31	57	236	114	14	0	0	471
River : Sokoto	1971	0	0	0	0	11	25	76	242	168	1	0	0	523
River Basin : Sokoto - Rima	1972	0	0	0	0	9	18	16	85	9	6	0	0	143
HIA : I	1973	0	0	0	0	1	14	73	80	34	1	0	0	203
SHA : 1041	1974	0	0	0	0	7	14	200	246	170	48	0	0	685
Coordinate	1975	0	0	0	0	12	5	75	113	214	0	0	0	419
- Lat. : 12°10'	1976	0	0	0	0	81	130	125	104	51	1	0	0	492
- Long. : 06°40'	1977	0	0	0	0	81	35	22	91	97	12	0	0	338
Catchment Area (km ²) : 2,570	1978	0	0	0	0	14	53	104	66	58	13	0	0	308
	1979	0	0	0	0	69	101	108	143	166	13	0	0	600
	Mean	0	0	0	0	30	43	86	141	108	11	0	0	419
	1980	0	0	0	0	14	13	81	131	80	12	0	0	331
	1981	0	0	0	0	1	13	22	252	57	13	0	0	358
	1982	0	0	0	0	42	45	51	166	120	29	0	0	453
	1983	0	0	0	0	2	72	48	148	71	0	0	0	341
	1984	0	0	0	0	31	34	51	57	64	30	0	0	267
	1985	0	0	0	0	18	36	111	170	92	44	0	0	471
	1986	-	-	-	-	-	-	-	-	-	-	-	-	-
	1987	-	-	-	-	-	-	-	-	-	-	-	-	-
	1988	-	-	-	-	-	-	-	-	-	-	-	-	-
	1989	-	-	-	-	-	-	-	-	-	-	-	-	-
	Mean	0	0	0	0	18	36	61	154	81	21	0	0	371

**TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
HA - I (2/11)**

-Unit:MCM-

Station Particulars		Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station	: Bakolori Dam	1970	0	0	0	0	17	53	289	448	248	80	0	0	1,135
River	: Sokoto	1971	0	0	0	0	9	32	249	373	402	0	0	0	1,065
River Basin	: Sokoto - Rima	1972	0	0	0	0	0	0	47	172	42	0	0	0	261
HA	: I	1973	0	0	0	0	0	168	465	232	117	2	0	0	984
SHA	: 1042	1974	0	0	0	0	47	28	290	324	494	10	0	0	1,193
Coordinate		1975	0	0	0	0	20	8	127	191	362	0	0	0	708
- Lat.	: 12°31'	1976	0	0	0	0	146	235	227	189	93	0	0	0	890
- Long.	: 06°10'	1977	0	0	0	0	126	54	34	141	151	19	0	0	525
Catchment Area (km ²)	: 4,800	1978	0	0	0	0	20	78	153	97	85	20	0	0	453
		1979	0	0	0	0	132	193	206	274	319	25	0	0	1,149
		Mean	0	0	0	0	52	85	209	244	231	16	0	0	837
		1980	0	0	0	0	21	20	124	200	123	19	0	0	507
		1981	0	0	0	0	2	21	35	403	92	20	0	0	573
		1982	0	0	0	0	74	80	90	293	211	50	0	0	798
		1983	0	0	0	4	0	112	74	231	110	0	0	0	531
		1984	0	0	0	0	41	45	67	76	85	40	0	0	354
		1985	0	0	0	0	32	64	198	304	165	78	0	0	841
		1986	-	-	-	-	-	-	-	-	-	-	-	-	-
		1987	-	-	-	-	-	-	-	-	-	-	-	-	-
		1988	-	-	-	-	-	-	-	-	-	-	-	-	-
		1989	-	-	-	-	-	-	-	-	-	-	-	-	-
		Mean	0	0	0	1	28	57	98	251	131	35	0	0	601

TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
HA-I (3/11)

-Unit:MCM-

Station Particulars		Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station	: Wamako	1970	4	3	3	0	1	11	117	773	801	427	9	5	2,154
River	: Sokoto	1971	4	3	3	2	2	16	171	576	658	103	9	5	1,552
River Basin	: Sokoto - Rima	1972	0	0	0	3	4	61	90	273	194	17	3	2	647
HA	: I	1973	11	1	1	1	1	20	150	315	137	5	1	1	644
SHA	: 1052	1974	1	1	1	1	1	8	196	717	662	248	6	3	1,845
Coordinate		1975	1	1	1	1	5	51	173	508	568	153	11	3	1,476
- Lat.	: 13°02'	1976	3	1	1	1	1	39	120	251	119	78	18	3	635
- Long.	: 05°06'	1977	1	1	1	0	0	4	98	354	571	62	2	1	1,095
Catchment Area (km ²)	: 40,160	1978	0	0	0	3	18	92	286	432	485	145	1	0	1,462
		1979	1	0	0	0	3	6	72	523	611	5	3	0	1,224
		Mean	3	1	1	1	4	31	147	472	481	124	6	2	1,273
		1980	0	0	0	0	0	13	91	605	340	7	2	0	1,058
		1981	-	-	-	-	-	-	-	-	-	-	-	-	-
		1982	0	0	0	0	0	71	121	465	297	10	0	0	964
		1983	0	0	0	0	0	128	195	441	267	2	0	0	1,033
		1984	0	0	0	0	0	33	210	343	161	36	0	0	783
		1985	0	0	0	0	0	153	475	819	422	0	0	0	1,869
		1986	-	-	-	-	-	-	-	-	-	-	-	-	-
		1987	-	-	-	-	-	-	-	-	-	-	-	-	-
		1988	-	-	-	-	-	-	-	-	-	-	-	-	-
		1989	-	-	-	-	-	-	-	-	-	-	-	-	-
		Mean	0	0	0	0	0	80	218	535	297	11	0	0	1,141

TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
HA-I (4/11)

-Unit:MCM-

Station Particulars		Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station	: Funtua Yashi Road	1970													
River	: Karaduwa	1971													
River Basin	: Rima	1972	0	0	0	0	0	10.9	23.8	30.0	8.3	0	0	0	73.0
HA	: I	1973	0	0	0	0	0	2.3	4.2	10.8	45.7	0.1	0	0	63.1
SHA	: 1021	1974	0	0	0	0	0	0.4	28.8	13.5	5.6	0	0	0	48.3
Coordinate		1975	0	0	0	0	0.8	1.5	25.6	32.4	20.7	0	0	0	81.0
- Lat.	: 12°14'	1976	0	0	0	0	0	2.2	6.3	5.6	2.5	0	0	0	16.6
- Long.	: 07°50'	1977	0	0	0	0	0	0	6.5	28.3	13.1	0	0	0	47.9
Catchment Area (km ²)	: 425	1978	-	-	-	-	-	-	-	-	-	-	-	-	-
		1979	-	-	-	-	-	-	-	-	-	-	-	-	-
		Mean	0	0	0	0	0.1	2.9	15.9	20.1	16.0	0	0	0	55.0

TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
HA-I (5/11)

-Unit:MCM-

Station Particulars		Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station	: Zobe	1970	0.5	0.2	0	0	0.4	3.7	31.7	137.1	108.2	2.6	0.5	0.1	285
River	: Karaduwa/ Bunshuru	1971	0	0	0	0	1.5	19.0	23.4	74.4	60.1	1.1	0.1	0.0	180
River Basin	: Rima	1972	0	0	0	0	9.1	13.3	14.3	30.8	14.9	1.9	0.4	0.4	85
HA	: I	1973	0.2	0.1	0.1	0.1	0	3.8	13.3	6.0	1.0	0.1	0.0	0.0	25
SHA	: 1022	1974	0	0	0	0	0.7	1.0	64.1	99.3	32.6	3.7	0.9	2.7	205
Coordinate		1975	0.4	0	0	0.1	5.7	3.6	63.3	93.1	91.1	2.3	0.3	0.2	260
- Lat.	: 11°23'	1976	0.2	0.1	0	0.5	1.5	8.0	11.7	18.8	15.9	12.0	3.6	1.6	74
- Long.	: 07°23'	1977	1.0	0.6	0.4	-	-	-	-	-	-	-	-	-	-
Catchment Area (km ²)	: 2,380	1978	-	-	-	-	-	-	-	-	-	-	-	-	-
		1979	-	-	-	-	-	-	-	-	-	-	-	-	-
		Mean	0.3	0.1	0.1	0.1	2.7	7.5	31.7	65.6	46.3	3.4	0.8	0.7	159

**TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
HA - I (6/11)**

-Unit:MCM-

Station Particulars		Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station	: Jibiya Dam	1970	0	0	0	0	0	-	-	13.9	13.7	0	0	0	-
River	: Maradi	1971	0	0	0	0	0	0	0	40.7	4.7	0	0	0	45.4
River Basin	: Rima	1972	0	0	0	0	0	1.3	37.2	45.3	4.9	0	0	0	88.7
HA	: I	1973	0	0	0	0	0	0	1.9	3.5	1.3	0	0	0	6.7
SHA	: 1010	1974	0	0	0	0	0	0	7.5	15.5	3.9	0.5	0	0	27.4
Coordinate		1975	0	0	0	0	1.6	1.0	14.2	14.7	14.5	0	0	0	46.0
- Lat.	: 13°01'	1976	0	0	0	0	0	0	7.8	6.7	6.7	0	0	0	21.2
- Long.	: 07°14'	1977	0	0	0	0	0	0	13.7	44.7	7.3	0.3	0	0	66.0
Catchment Area (km ²)	: 3,200	1979	-	-	-	-	-	-	-	-	-	-	-	-	-
		Mean	0	0	0	0	0	0	11.8	23.1	7.1	0	0	0	42.0

**TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
HA - I (7/11)**

-Unit:MCM-

Station Particulars		Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station	: Kaura Namoda	1970	0	0	0	0	16	54	183	316	276	4	0	0	849
River	: Gagere	1971	0	0	0	0	7	12	158	302	307	1	0	0	787
River Basin	: Rima	1972	0	0	0	0	34	55	80	133	32	1	0	0	335
HA	: I	1973	0	0	0	0	2	40	191	109	22	8	0	0	371
SHA	: 1030	1974	0	0	0	0	30	79	280	284	107	78	5	0	863
Coordinate		1975	0	0	0	0	26	45	222	195	189	2	0	0	679
- Lat.	: 12°36'	1976	0	0	0	0	19	80	105	160	93	70	5	0	532
- Long.	: 06°35'	1977	0	0	0	0	23	111	104	-	-	-	-	-	-
Catchment Area (km ²)	: 6,500	1978	-	-	-	-	-	-	-	-	-	-	-	-	-
		1979	-	-	-	-	-	-	-	-	-	-	-	-	-
		Mean	0	0	0	0	20	60	165	214	147	23	1	0	630

TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
HA - I (8/11)

-Unit:MCM-

Station Particulars		Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station	: Goronyo Dam	1970	1	1	1	1	0	0	35	346	542	240	5	0	1,172
River	: Rima	1971	2	2	2	1	1	2	64	250	362	59	5	3	753
River Basin	: Sokoto - Rima	1972	2	2	2	2	0	12	31	207	178	16	2	1	455
HA	: I	1973	0	0	0	0	0	15	101	211	92	3	2	1	425
SHA	: 1052	1974	0	0	0	0	0	5	107	392	361	135	4	3	1,007
Coordinate		1975	0	0	0	0	0	32	97	285	319	86	7	4	830
- Lat.	: 13°27'	1976	0	0	0	0	0	28	81	169	80	52	12	2	424
- Long.	: 05°44'	1977	0	0	0	0	0	3	58	209	338	37	0	0	645
Catchment Area (km ²)	: 21,450	1978	0	0	0	0	0	64	162	244	273	80	0	0	823
		1979	0	0	0	0	0	6	41	303	354	3	2	0	709
		Mean	1	1	1	0	0	17	78	262	290	71	4	1	726
		1980	0	0	0	0	0	7	54	360	202	5	1	0	629
		1981	-	-	-	-	-	-	-	-	-	-	-	-	-
		1982	0	0	0	0	0	41	69	266	170	5	0	0	551
		1983	0	0	0	0	0	73	111	251	152	1	0	0	588
		1984	0	0	0	0	0	19	122	199	93	20	0	0	453
		1985	0	0	0	0	0	85	264	456	235	0	0	0	1,040
		1986	-	-	-	-	-	-	-	-	-	-	-	-	-
		1987	-	-	-	-	-	-	-	-	-	-	-	-	-
		1988	-	-	-	-	-	-	-	-	-	-	-	-	-
		1989	-	-	-	-	-	-	-	-	-	-	-	-	-
		Mean	0	0	0	0	0	45	124	306	170	6	0	0	651

TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
HA-I (9/11)

-Unit:MCM-

Station Particulars	Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station : Anka	1970	0	0	0	0	0	50	201	312	229	2	0	0	794
River : Zamfara	1971	0	0	0	0	0	19	101	308	263	31	0	0	722
River Basin : Sokoto - Rima	1972	0	0	0	0	14	41	62	114	96	17	0	0	344
HA : I	1973	0	0	0	0	0	117	119	227	183	17	0	0	663
SHA : 1082	1974	0	0	0	0	0	80	220	371	378	59	0	0	1,108
Coordinate	1975	0	0	0	0	33	25	95	143	207	1	0	0	504
- Lat. : 12°07'	1976	0	0	0	0	119	191	185	154	76	0	0	0	725
- Long. : 05°55'	1977	0	0	0	0	119	51	32	134	143	18	0	0	497
Catchment	1978	0	0	0	0	20	78	153	97	85	20	0	0	453
Area (km ²) : 4,140	1979	0	0	0	0	102	149	159	211	246	19	0	0	886
	Mean	0	0	0	0	41	80	133	207	191	18	0	0	670
	1980	0	0	0	0	20	19	119	192	118	18	0	0	486
	1981	0	0	0	0	2	19	32	371	85	18	0	0	527
	1982	0	0	0	0	62	67	75	245	176	42	0	0	667
	1983	0	0	0	0	23	127	122	120	45	0	0	0	437
	1984	0	0	0	0	0	72	113	199	108	38	0	0	530
	1985	-	-	-	-	-	-	-	-	-	-	-	-	-
	1986	-	-	-	-	-	-	-	-	-	-	-	-	-
	1987	-	-	-	-	-	-	-	-	-	-	-	-	-
	1988	-	-	-	-	-	-	-	-	-	-	-	-	-
	1989	-	-	-	-	-	-	-	-	-	-	-	-	-
	Mean	0	0	0	0	21	61	92	225	106	23	0	0	528

TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
HA-I (10/11)

-Unit:MCM-

Station Particulars		Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station	: Banaga Dam	1970	0	0	0	0	0	11	62	161	236	44	6	0	520
River	: Gulbinka	1971	0	0	0	0	0	29	98	195	211	22	7	0	562
River Basin	: Sokoto - Rima	1972	0	0	0	0	0	21	51	82	142	19	5	0	320
HIA	: I	1973	0	0	0	0	0	16	41	141	61	16	5	0	280
SHIA	: 1091	1974	0	0	0	0	0	39	98	230	223	105	9	0	704
Coordinate		1975	0	0	0	0	0	16	70	88	231	62	10	0	477
- Lat.	: 11°39'	1976	0	0	0	0	0	54	65	63	35	33	31	0	281
- Long.	: 05°58'	1977	0	0	0	0	0	36	26	155	188	36	13	0	454
Catchment Area (km ²)	: 3,170	1978	0	0	0	0	0	0	49	83	196	79	13	0	420
		1979	0	0	0	0	0	84	110	167	208	51	17	0	637
		Mean	0	0	0	0	0	31	67	137	173	47	12	0	467
		1980	0	0	0	0	0	14	111	136	72	10	4	0	347
		1981	0	0	0	0	0	15	25	285	65	14	0	0	404
		1982	0	0	0	0	0	46	72	135	143	23	5	0	424
		1983	0	0	0	0	0	45	46	97	43	6	1	0	238
		1984	0	0	0	0	0	33	70	125	89	26	1	0	344
		1985	-	-	-	-	-	-	-	-	-	-	-	-	-
		1986	-	-	-	-	-	-	-	-	-	-	-	-	-
		1987	-	-	-	-	-	-	-	-	-	-	-	-	-
		1988	-	-	-	-	-	-	-	-	-	-	-	-	-
		1989	-	-	-	-	-	-	-	-	-	-	-	-	-
		Mean	0	0	0	0	0	31	65	156	82	16	2	0	352

**TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
HA-1 (11/11)**

-Unit:MCM-

Station Particulars		Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station	: Malendo Bridge	1980	-	-	-	-	-	-	-	-	-	-	-	-	-
River	: Malendo	1981	-	-	-	-	-	-	-	-	-	-	-	-	-
River Basin	: Niger	1982	0	0	0	2	37	185	180	405	104	112	0	0	1,025
HA	: I	1983	0	0	1	0	6	8	169	505	83	14	0	0	786
SHA	: 1111	1984	0	0	0	4	111	63	130	215	148	46	0	0	717
Coordinate		1985	0	0	0	0	23	85	276	300	115	40	0	0	839
- Lat.	: 10°42'	1986	0	0	0	0	14	85	290	460	426	41	4	0	1,320
- Long.	: 04°48'	1987	0	0	0	0	60	409	55	204	132	24	0	0	884
Catchment Area (km ²)	: 9,954	1988	0	0	0	0	122	52	100	282	533	27	0	0	1,116
Year Established	: 1959	1989	0	0	0	0	198	425	545	1,065	1,090	626	121	0	4,070
		Mean	0	0	0	1	71	164	218	430	329	116	16	0	1,345

**TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
HA-II (1/13)**

- Unit : MCM -

Station Particulars		Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station	: Kaduna South	1970													
River	: Kaduna	1971													
River Basin	: Niger	1972	-	-	-	13	210	368	628	2,017	1,492	532	138	24	-
HA	: II	1973	12	5	5	10	21	215	489	1,947	1,543	403	78	18	4,746
SHA	: 2122	1974	10	5	10	18	217	251	612	1,455	2,413	342	160	29	5,522
Coordinate		1975	14	6	3	47	317	307	943	1,872	2,585	667	200	34	6,995
- Lat.	: 10°29'	1976	16	5	6	19	152	351	901	1,230	1,249	1,035	357	93	5,414
- Long.	: 07°26'	1977	21	9	2	8	66	33	16	88	1,294	454	40	16	2,047
Catchment Area (km ²)	: 18,420	1978	13	12	15	-	-	-	-	-	-	-	-	-	-
Year Established	: 1944	1979	21	8	3	10	120	170	828	1,301	1,527	459	101	22	4,570
		Mean	15	7	6	18	158	242	631	1,416	1,729	556	153	34	4,965
		1980	9	3	7	5	164	356	863	1,455	1,141	335	86	23	4,447
		1981													
		1982													
		1983													
		1984													
		1985													
		1986													
		1987													
		1988													
		1989													
		Mean													

TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
HA-II (2/13)

- Unit : MCM -

Station Particulars		Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station	: Wuya	1970	-	-	-	-	-	464	1,076	6,017	9,605	1,979	-	321	-
River	: Kaduna	1971	-	-	-	-	-	-	-	-	-	-	-	-	-
River Basin	: Niger	1972	263	-	-	89	253	520	911	4,951	4,861	1,666	395	133	-
HA	: II	1973	-	95	82	-	106	178	597	3,397	3,522	1,451	266	99	-
SHA	: 2143	1974	-	-	-	-	339	-	774	-	-	-	394	-	-
Coordinate		1975	107	90	84	83	341	364	1,766	3,553	9,433	3,136	535	247	19,739
- Lat.	: 09°12'	1976	150	-	-	102	327	639	1,235	-	-	4,051	1,226	-	-
- Long.	: 05°52'	1977	117	86	72	62	122	672	-	4,886	11,910	7,383	401	-	-
Catchment Area (km ²)	: 59,180	1978	120	100	110	-	-	-	5,944	-	20,354	8,426	2,623	-	-
		1979	264	162	133	119	416	890	7,130	13,983	16,037	8,324	828	-	-
		Mean	170	107	96	91	272	532	2,429	6,131	10,817	4,552	834	200	26,231
		1980	140	25	118	110	301	603	4,115	9,247	9,653	3,379	484	125	28,300
		1981	-	-	-	17	271	491	1,567	3,590	6,249	1,852	-	-	-
		1982	-	29	24	20	14	21	1,370	3,513	3,977	2,335	64	-	6,335
		1983	25	24	21	18	32	133	80	1,868	3,398	691	10	35	28
		1984	25	24	23	21	20	-	-	-	-	-	-	-	17,909
		1985	23	18	20	23	30	80	124	4,866	7,002	4,699	976	48	-
		1986	24	33	33	31	35	65	-	-	7,436	1,841	193	63	-
		1987	63	60	32	-	-	150	-	516	6,003	2,798	51	36	-
		1988	33	29	30	-	-	712	163	1,608	12,871	2,824	74	54	-
		1989	46	40	43	43	43	135	141	2,633	5,083	3,301	153	26	11,687
		Mean	47	31	38	35	93	266	1,080	3,480	6,852	2,636	251	52	14,861

TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
HA-II (3/13)

- Unit : MCM -

Station Particulars	Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station : Shiroro Hydropower	1980													
River : Kaduna	1981													
River Basin : Niger	1982													
HA : II	1983													
SHA : 2130	1984					60	283	400	844	1,110	720	183	35	-
Coordinate	1985	34	15	41	94	312	683	867	2,729	3,031	770	128	13	8,717
- Lat. :	1986	9	7	65	88	391	229	755	1,788	3,391	1,107	155	17	8,002
- Long. :	1987	20	20	25	90	217	433	660	1,572	2,218	864	148	25	6,292
Catchment	1938	15	13	9	101	623	339	326	2,007	4,062	973	22	47	8,537
Area (km ²) : 36,100	1989	21	22	39	58	736	283	797	2,272	2,560	1,032	68	65	7,953
Year Established : 1984	Mean	20	15	36	86	390	375	634	1,869	2,729	911	117	34	7,216

TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
HA-II (4/13)

- Unit : MCM -

Station Particulars	Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station : Saminaka	1970	4	1	1	1	18	16	60	166	141	9	3	1	421
River : Karami	1971	1	1	0	1	15	11	24	249	231	12	2	1	548
River Basin : Kaduna	1972	0	0	0	1	20	17	57	164	62	24	5	1	351
HA : II	1973	0	0	0	1	5	30	31	110	46	9	3	2	237
SHA : 2112	1974	2	2	2	1	8	8	16	78	87	25	6	2	237
Coordinate	1975	2	1	1	3	13	5	86	86	127	147	25	9	505
- Lat. : 10°22'	1976	4	2	2	4	14	20	81	94	115	50	20	14	420
- Long. : 08°40'	1977	10	7	6	5	7	14	23	38	54	14	7	6	191
Catchment	1978	5	5	5	-	-	-	-	-	-	-	-	-	-
Area (km ²) : 630	1979	3	3	3	3	7	8	70	60	38	12	5	3	215
Year Established : 1966	Mean	3	2	2	2	12	14	50	116	100	34	8	4	347
	1980	4	3	3	2	17	365	74	102	51	25	11	7	664
	1981													
	1982													
	1983													
	1984													
	1985													
	1986													
	1987													
	1988													
	1989													
	Mean													

**TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
HA-II (5/13)**

- Unit : MCM -

Station Particulars		Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station	: Zaria-Kano Bridge	1970													
River	: Shika	1971				0.5	3.0	2.4	3.0	52.6	27.5	15.0	0.1	0.1	
River Basin	: Kaduna	1972				0.2	0.1	3.8	8.6	30.8	32.4	0.9	0.1	0.1	77
HA	: II	1974	0.1	0.1	0.1	0.0	0.1	4.0	30.7	9.5	56.3	17.8	0.5	0.2	120
SHA	: 2111	1975	0.1	0.1	0.1	0.3	2.3	4.8	0.0	27.0	57.1	7.5	0.5	0.2	100
Coordinate		1976	0.3	0.2	0.1	0.1	0.8	9.0	37.3	37.9	27.4	17.0	2.4	0.3	133
- Lat.	: 11°09'	1977	0.2	0.2	0.1	0.0	0.0					0.1	0.1	0.2	
- Long.	: 07°45'	1978	0.3	0.2	0.2										
Catchment Area (km ²)	: 845	1979	0.3	0.3	0.2	0.1	1.9	5.7	24.9	45.8	43.5	6.0	2.2	0.7	132
		Mean	0.2	0.2	0.1	0.2	1.2	5.0	17.4	33.9	40.7	9.2	0.8	0.3	109
		1980	9.9	7.1	4.6	3.7	0.0	10.1	16.8	21.9	31.2	15.2	5.2	3.5	129
		1981													
		1982													
		1983													
		1984													
		1985													
		1986													
		1987													
		1988													
		1989													
		Mean													

**TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
HA-II (6/13)**

- Unit : MCM -

Station Particulars		Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station	: Malendo Road	1970													
River	: Tubo	1971													
River Basin	: Kaduna	1972	-	-	-	2	16	34	16	239	168	46	12	5	
HA	: II	1973	3	0	0	2	4	9	24	129	162	118	5	4	460
SHA	: 2091	1974	6	6	4	2	6	8	48	272	464	13	8	3	840
Coordinate		1975	3	2	1	3	23	16	88	217	478	81	13	5	930
- Lat.	: 10°35'	1976	3	4	2	4	15	42	134	183	96	156	42	8	689
- Long.	: 07°13'	1977	4	2	1	1	1	21	24	91	286	57	4	2	494
Catchment Area (km ²)	: 5,900	1978	1	1	1	8	19	75	129	202	313	121	41	10	921
Year Established	: 1959	1979	-	-	-	-	-	-	-	-	-	-	-	-	-
		Mean	3	3	2	3	12	29	66	190	281	85	18	5	697

**TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
HA-II (7/13)**

- Unit : MCM -

Station Particulars	Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station : Ribako	1970													
River : Galma	1971													
River Basin : Kaduna	1972	-	-	-	1	25	58	85	121	235	74	-	-	-
HA : II	1973	0	1	1	0	2	23	93	369	419	203	8	1	1,120
SHA : 2111	1974	0	0	1	1	16	9	135	285	424	162	20	20	1,073
Coordinate	1975	2	1	0	6	40	29	151	340	593	161	27	8	1,358
- Lat. : 10°25'	1976	3	2	1	4	12	49	133	248	196	224	81	15	968
- Long. : 07°45'	1977	3	1	9	1	5	33	45	138	365	95	12	3	710
Catchment	1978	2	1	1	-	-	-	-	-	-	-	-	-	-
Area (km ²) : 6,650	1979	3	1	1	1	20	58	270	678	581	165	28	9	1,815
Year Established : 1962	Mean	2	1	2	2	17	37	130	311	402	155	29	9	1,097
	1980	2	1	1	1	21	5	121	300	229	50	13	3	747
	1981													
	1982													
	1983													
	1984													
	1985													
	1986													
	1987													
	1988													
	1989													
	Mean													

**TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
HA-II (8/13)**

- Unit : MCM -

Station Particulars	Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station : Komi	1980													
River : Kontagora	1981													
River Basin : Niger	1982													
HA : II	1983													
SHA : 2031	1984	2.7	2.4	2.7	17.1	16.6	30.3	37.0	23.2	42.0	15.7	6.5	5.4	202
Coordinate	1985	6.7	5.8	9.4	6.7	11.3	9.6	22.3	110.5	59.4	30.7	10.7	8.7	292
- Lat. : 09°53'	1986	7.0	6.6	6.5	12.7	13.9	16.4	30.0	36.3	130.4	46.5	19.1	11.1	337
- Long. : 04°38'	1987	10.4	7.6	7.5	6.2	7.5	39.6	35.0	55.4	68.2	31.3	13.0	10.7	292
Catchment	1988	9.9	7.5	6.1	7.1	6.7	11.4	14.7	26.5	109.9	33.4	12.2	11.3	257
Area (km ²) : 2,250	1989	10.2	8.5	7.8	7.3	7.2	18.7	15.3	75.6	80.3	55.9	16.8	12.1	316
	Mean	7.8	6.4	6.7	9.5	10.5	21.0	25.7	54.6	81.7	35.6	13.1	9.9	283

TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
HA-II (9/13)

- Unit : MCM -

Station Particulars	Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station : Kachia	1970													
River : Shaho	1971													
River Basin : Niger	1972	-	-	-	0.1	3.4	5.5	14.3	21.9	7.1	3.7	1.5	0.8	-
HA : II	1973	0.5	0.3	0.2	0.4	1.7	2.9	7.5	17.4	11.2	4.6	2.3	1.5	50.5
SHA : 2161	1974	1.1	0.6	0.4	2.5	5.5	3.6	15.7	10.1	14.8	4.4	2.1	1.5	62.3
Coordinate	1975	1.4	1.1	1.4	1.8	4.4	5.4	11.3	10.6	15.6	4.5	1.6	0.9	60.0
- Lat. : 09°54'	1976	0.7	0.5	0.3	0.7	2.1	1.9	7.9	7.1	7.4	9.5	2.5	1.5	42.1
- Long. : 07°56'	1977	0.9	0.7	0.4	0.8	2.2	5.5	7.1	5.9	6.7	4.6	1.2	1.1	37.1
Catchment Area (km ²) : 128	1978	0.9	0.7	0.7	-	-	-	-	-	-	-	-	-	-
	1979	1.4	1.1	1.1	1.1	4.4	3.3	7.7	8.8	7.2	4.7	2.7	1.7	45.2
	Mean	1.0	0.7	0.6	1.1	3.4	4.0	10.2	11.7	10.0	5.1	2.0	1.3	51.1
	1980	1.4	1.1	1.0	1.3	2.8	7.0	6.7	7.5	3.4	3.5	1.5	1.0	38.2
	1981													
	1982													
	1983													
	1984													
	1985													
	1986													
	1987													
	1988													
	1989													
	Mean													

TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
HA-II (10/13)

- Unit : MCM -

Station Particulars		Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station	: Kachia	1970													
River	: Gurara	1971													
River Basin	: Niger	1972	-	-	-	1.2	15.8	2.1	4.5	66.5	61.8	20.7	5.3	3.0	-
HA	: II	1973	2.1	1.5	1.9	4.0	4.4	12.6	24.1	67.2	80.9	26.9	4.3	1.1	231
SHA	: 2161	1974	0.8	0.5	0.5	2.9	16.6	11.2	47.8	65.7	94.4	19.6	5.7	3.1	269
Coordinate		1975	2.1	1.4	1.5	3.7	12.5	14.3	61.1	55.7	76.6	21.6	5.5	3.3	259
- Lat.	: 09°52'	1976	2.5	2.0	0.9	16.6	10.2	18.5	33.9	43.5	41.6	34.9	10.2	6.8	222
- Long.	: 07°59'	1977	5.6	3.6	3.4	2.8	6.6	19.2	25.6	30.0	44.0	30.5	6.1	3.9	181
Catchment Area (km ²)	: 562	1978	2.8	1.8	5.2	-	-	-	-	-	-	-	-	-	-
		1979	1.0	0.6	0.5	1.2	8.5	3.8	68.6	38.7	55.8	43.2	9.1	2.3	233
		Mean	2.4	1.6	2.0	4.6	10.7	11.7	37.9	52.5	65.0	28.2	6.6	3.4	227
		1980	1.1	0.5	0.2	-	8.5	21.1	53.0	57.6	62.2	38.9	9.4	2.7	-
		1981													
		1982													
		1983													
		1984													
		1985													
		1986													
		1987													
		1988													
		1989													
		Mean													

TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
HA-II (11/13)

- Unit : MCM -

Station Particulars		Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station	: Izom	1970	-	-	-	15	91	156	418	1,176	1,550	419	89	29	-
River	: Gurara	1971	17	7	5	34	76	178	469	1,308	1,335	619	119	29	4,196
River Basin	: Niger	1972	15	6	9	24	162	432	689	1,645	814	447	85	36	4,364
HA	: II	1973	22	9	4	23	51	121	261	1,127	1,023	443	123	47	3,254
SHA	: 2162	1974	21	8	3	25	164	164	624	866	1,748	623	126	49	4,421
Coordinate		1975	25	11	8	34	102	185	594	1,126	1,395	1,068	114	17	4,679
- Lat.	: 09°15'	1976	9	10	8	11	126	257	516	740	676	1,017	291	-	-
- Long.	: 07°02'	1977	106	87	69	142	279	223	497	571	980	749	87	21	3,811
Catchment Area (km ²)	: 7,650	1978	9	3	17	73	146	328	696	774	2,071	991	-	72	-
		1979	41	25	17	44	264	271	697	952	1,255	897	186	69	4,718
		Mean	29	18	16	43	146	232	546	1,029	1,285	727	136	41	4,248
		1980	31	4	0	14	70	271	826	840	1,072	596	160	63	3,947
		1981	38	19	88	17	166	197	580	936					
		1982													
		1983													
		1984													
		1985													
		1986													
		1987													
		1988													
		1989													
		Mean													

TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
HA-II (12/13)

- Unit : MCM -

Station Particulars	Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station : Ebba	1970	4	3	3	2	3	4	8	47	238	88	15	6	421
River : Jatau	1971	3	2	2	2	5	4	36	130	225	69	13	6	497
River Basin : Niger	1972	4	2	1	3	3	5	29	73	130	50	7	2	309
HA : II	1973	1	0	0	0	0	1	3	47	70	46	8	2	178
SHA : 2141	1974	0	0	0	0	1	6	10	44	162	143	17	4	387
Coordinate	1975	2	1	1	2	2	2	47	58	181	152	22	3	473
- Lat. : 09°15'	1976	0	0	0	0	0	10	20	26	66	106	46	4	278
- Long. : 06°34'	1977	2	1	0	0	3	4	4	98	242	160	19	7	540
Catchment Area (km ²) : 1,890	1978	2	1	1	1	1	5	16	138	263	93	28	8	557
	1979	2	2	2	2	4	7	35	154	124	50	18	8	408
	Mean	2	1	1	1	2	5	21	82	170	94	19	5	405
	1980	3	2	2	2	3	4	8	65	174	85	21	6	375
	1981													
	1982													
	1983													
	1984													
	1985													
	1986													
	1987													
	1988													
	1989													
	Mean													

TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
HA-II (13/13)

- Unit : MCM -

Station Particulars	Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station : Badeggi	1970	14	8	7	6	10	13	23	265	676	309	49	31	1,411
River : Gbako	1971	13	10	14	13	25	34	136	363	605	236	78	23	1,550
River Basin : Niger	1972	17	13	12	11	21	31	127	333	457	172	40	16	1,250
HA : II	1973	13	10	9	8	8	15	58	202	330	211	36	6	906
SHA : 2141	1974	4	3	3	3	7	23	44	162	450	319	50	12	1,080
Coordinate	1975	5	4	4	6	8	9	140	144	444	463	50	16	1,293
- Lat. : 09°05'	1976	7	6	5	4	6	38	56	103	147	272	195	26	865
- Long. : 06°07'	1977	5	4	4	4	7	13	30	233	462	392	61	11	1,226
Catchment Area (km ²) : 5,480	1978	5	4	4	14	14	28	87	336	569	314	105	21	1,501
	1979	6	5	6	4	5	45	71	367	465	236	51	13	1,274
	Mean	9	8	7	7	11	25	77	251	461	292	72	18	1,238

**TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
HA-III (1/13)**

-Unit:MCM-

Station Particulars	Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station : Mbu/Tepkwar	1980													
River : Donga	1981	44	33	32	49	104	110	191	227	359	211	79	41	1,480
River Basin : Benue	1982	40	34	59	60	99	120	244	278	269	312	100	63	1,678
HIA : III	1983	58	34	27	42	61	102	160	236	234	100	61	46	1,161
SHA : 3140	1984	30	24	52	88	63	108	232	261	399	210	97	39	1,603
Coordinate	1985	34	20	42	66	74	113	171	203	209	163	67	36	1,198
- Lat. : 06°42'	1986	25	16	51	40	50	70	140	230	280	170	60	30	1,162
- Long. : 11°08'	1987	20	20	40	98	69	296	217	358	482	370	44	29	2,043
Catchment Area (km ²) : 2,120	1988	24	19	43	50	54	54	107	108	226	107	41	30	863
	1989	22	16	24	-	-	-	-	-	-	-	-	-	-
	Mean	33	24	41	62	72	122	183	238	307	205	69	39	1,395

**TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
HA-III (2/13)**

-Unit:MCM-

Station Particulars	Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station : Manya	1980													
River : Donga	1981	124	60	53	87	219	276	1,098	1,713	2,251	1,664	482	167	8,194
River Basin : Benue	1982	97	60	67	60	161	440	1,192	1,755	2,129	1,877	523	184	8,545
HIA : III	1983	115	63	46	69	122	303	602	1,283	2,115	867	206	103	6,894
SHA : 3122	1984	56	29	59	120	144	301	1,065	1,259	1,927	1,435	441	176	7,012
Coordinate	1985	113	59	84	199	224	479	1,006	1,316	1,959	1,470	451	179	7,539
- Lat. : 07°19'	1986	-	-	-	110	180	320	770	1,630	1,720	1,980	740	190	-
- Long. : 10°15'	1987	90	50	70	103	108	471	1,377	2,009	2,485	1,827	-	185	-
Catchment Area (km ²) : 6,350	1988	94	58	137	145	201	298	718	1,361	2,100	1,536	453	174	7,275
	1989	86	44	67	-	-	-	-	-	-	-	-	-	-
	Mean	97	53	73	112	170	361	979	1,541	2,086	1,582	471	170	7,695

**TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
HA-III (3/13)**

-Unit:MCM-

Station Particulars		Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station	: Donga	1970	512	319	311	355	563	938	1,252	2,503	3,165	3,532	1,204	632	15,286
River	: Donga	1971	343	242	410	383	370	536	2,080	4,473	3,535	3,138	1,083	-	-
River Basin	: Benue	1972	-	-	-	-	-	917	1,509	2,010	3,898	3,792	894	300	-
HA	: III	1973	241	261	256	394	429	562	978	1,651	2,912	-	-	-	-
SHA	: 3113	1974	316	242	268	412	579	1,036	2,350	2,208	4,198	4,698	1,725	619	18,651
Coordinate		1975	402	317	354	456	555	764	1,771	2,101	3,450	3,776	1,303	702	15,951
- Lat.	: 07°43'	1976	466	370	386	407	807	1,158	1,847	2,894	2,707	4,545	2,098	734	18,419
- Long.	: 10°05'	1977	429	315	-	282	442	619	1,150	1,525	4,103	4,133	829	541	-
Catchment Area (km ²)	: 11,910	1978	434	-	322	440	614	1,158	1,868	1,948	3,126	3,205	1,388	549	-
Year Established	: 1955	1979	362	264	311	360	646	1,127	-	-	-	-	1,189	726	-
		Mean	389	291	327	388	556	882	1,645	2,368	3,455	3,852	1,301	600	16,054

**TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
HA-III (4/13)**

-Unit:MCM-

Station Particulars		Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station	: Gindin Dorowa	1980	-	-	-	-	-	-	-	-	-	-	-	-	-
River	: Donga	1981	493	329	311	354	740	837	2,347	3,529	4,368	3,761	1,385	648	19,102
River Basin	: Benue	1982	447	319	368	369	576	976	2,208	2,860	3,641	4,119	1,491	676	18,050
HA	: III	1983	416	270	240	264	418	737	1,380	2,223	3,547	2,057	793	481	12,826
SHA	: 3122	1984	348	248	308	413	518	1,407	1,085	1,864	3,801	1,882	635	118	12,627
Coordinate		1985	356	238	253	385	409	796	1,612	2,641	3,533	2,946	1,319	580	15,068
- Lat.	: 08°05'	1986	-	-	-	-	-	-	-	-	-	-	-	-	-
- Long.	: 10°03'	1987	-	-	-	-	-	-	-	-	-	-	-	-	-
Catchment Area (km ²)	: 18,800	1988	-	-	-	-	-	-	-	-	-	-	-	-	-
		1989	-	-	-	-	-	-	-	-	-	-	-	-	-
		Mean	412	281	296	357	532	951	1,726	2,623	3,778	2,953	1,125	501	15,535

**TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
HA-III (5/13)**

-Unit:MCM-

Station Particulars		Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station	: Suntai Bakundi	1980													
River	: Suntai	1981	30	6	2	3	82	167	496	725	854	620	175	67	3,227
River Basin	: Donga	1982	26	3	4	4	39	174	476	492	504	675	202	74	2,673
HIA	: III	1983	22	4	1	1	54	118	179	254	623	249	68	19	1,592
SHA	: 3122	1984	3	1	1	4	29	134	475	511	698	479	158	64	2,557
Coordinate		1985	29	6	23	16	38	144	406	472	790	389	199	55	2,567
- Lat.	: 07°41'	1986	-	-	-	-	-	-	-	-	-	-	-	-	-
- Long.	: 10°27'	1987	-	-	-	-	-	-	-	-	-	-	-	-	-
Catchment Area (km ²)	: 2,600	1988	-	-	-	-	-	-	-	-	-	-	-	-	-
		1989	-	-	-	-	-	-	-	-	-	-	-	-	-
		Mean	22	4	6	6	48	147	406	491	694	482	160	56	2,522

**TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
HA-III (6/13)**

-Unit:MCM-

Station Particulars		Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station	: Bantaji	1980													
River	: Suntai	1981	43	8	4	2	36	117	438	725	1,037	843	209	50	3,512
River Basin	: Donga	1982	14	4	4	3	13	91	430	488	856	712	266	58	2,939
HIA	: III	1983	12	4	2	2	24	95	243	297	701	405	60	13	1,858
SHA	: 3121	1984	4	1	1	1	18	71	340	514	877	619	246	29	2,721
Coordinate		1985	13	5	2	5	11	70	376	595	922	641	250	19	2,909
- Lat.	: 08°10'	1986	-	-	-	-	-	-	-	-	-	-	-	-	-
- Long.	: 10°10'	1987	-	-	-	-	-	-	-	-	-	-	-	-	-
Catchment Area (km ²)	: 5,350	1988	-	-	-	-	-	-	-	-	-	-	-	-	-
		1989	-	-	-	-	-	-	-	-	-	-	-	-	-
		Mean	17	4	3	3	20	89	365	524	879	644	206	34	2,788

**TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
HA-III (7/13)**

-Unit:MCM-

Station Particulars	Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station : Bali	1980	35	28	29	28	-	-	-	-	-	-	-	-	-
River : Taraba	1981	40	25	20	28	94	196	931	2,330	2,598	2,250	652	261	9425
River Basin : Benue	1982	-	-	-	-	-	697	1,053	1,679	2,332	1,924	863	126	-
HA : III	1983	53	30	19	19	33	226	537	1,173	2,119	821	204	84	5,318
SHIA : 3111	1984	50	34	31	67	215	197	535	1,750	2,278	1,380	344	197	7,078
Coordinate	1985	41	21	19	129	71	276	1,175	1,049	3,178	1,021	208	37	7,225
- Lat. : 07°52'	1986	-	-	-	10	20	100	580	1,300	1,700	1,170	400	50	-
- Long. : 10°58'	1987	8	5	3	10	16	10	127	297	801	791	611	71	2,750
Catchment Area (km ²) : 10,850	1988	15	10	-	18	35	56	247	485	1,681	-	440	-	-
Year Established : 1958	1989	-	-	67	-	-	-	-	-	-	-	-	-	-
Mean	Mean	35	22	27	39	69	220	648	1,258	2,086	1,337	465	118	6,324

**TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAUGING STATIONS
HA-III (8/13)**

-Unit:MCM-

Station Particulars	Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station : Tela	1980	-	-	-	-	-	-	-	-	-	-	-	-	-
River : Taraba	1981	105	38	23	27	300	467	2,067	2,318	4,838	3,803	742	306	15,034
River Basin : Benue	1982	189	105	102	115	218	397	1,851	2,790	4,578	3,956	801	306	15,408
HA : III	1983	212	163	106	96	189	399	739	1,554	2,975	1,038	229	119	7,819
SHA : 3113	1984	62	30	22	61	168	261	1,168	2,113	2,930	2,101	569	233	9,718
Coordinate	1985	161	93	95	180	177	379	1,052	3,436	6,977	3,312	417	305	16,584
- Lat. : 08°26'	1986	193	161	149	10	20	100	580	1,300	1,700	1,170	400	50	5,833
- Long. : 10°29'	1987	8	5	3	81	64	405	1,153	-	-	2,248	536	249	-
Catchment Area (km ²) : 22,350	1988	128	73	83	-	-	-	-	-	-	-	-	-	-
Mean	1989	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean	Mean	132	84	73	81	162	344	1,230	2,252	4,000	2,518	528	224	11,628

TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
HA-III (9/13)

-Unit:MCM-

Station Particulars	Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station : Gassol	1970	96	19	0	3	56	300	1,110	2,605	3,781	2,230	963	214	11,377
River : Taraba	1971	24	2	3	3	3	140	1,067	820	2,393	1,986	329	-	-
River Basin : Benue	1972	3	0	0	5	62	461	1,107	1,549	3,170	2,860	899	188	10,304
HA : III	1973	16	2	0	0	16	148	796	1,597	2,650	1,822	464	29	7,540
SHA : 3112	1974	0	0	0	5	289	756	1,533	2,023	2,673	2,801	862	276	11,218
Coordinate	1975	67	27	13	18	83	220	445	1,193	2,292	2,404	461	941	8,164
- Lat. : 08°31'	1976	850	440	21	23	182	404	1,343	2,149	2,292	3,323	1,696	488	13,211
- Long. : 10°31'	1977	188	-	19	0	40	243	1,034	635	2,877	2,948	730	212	-
Catchment Area (km ²) : 20,700	1978	72	29	21	96	324	857	1,619	1,954	3,092	2,227	1,218	306	11,815
Year Established : 1955	1979	110	44	48	54	316	842	1,613	2,709	2,937	2,208	1,013	437	12,331
	Mean	143	63	13	21	137	437	1,167	1,723	2,816	2,481	864	343	10,208
	1980	167	48	25	23	232	592	1,153	2,082	4,042	2,767	1,020	360	12,511
	1981	93	-	11	10	169	420	1,735	2,359	-	2,936	780	221	-
	1982	82	59	-	-	252	337	-	2,200	-	2,806	948	343	-
	1983	104	28	26	23	112	358	663	1,288	2,586	1,183	273	81	6,725
	1984	22	10	30	37	178	299	936	1,586	2,677	1,961	585	222	8,543
	1985	-	-	11	71	73	313	-	2,315	-	2,589	757	113	-
	1986	-	-	-	-	121	255	-	1,362	1,549	1,897	585	307	-
	1987	-	-	-	-	-	-	-	-	2,258	2,041	490	126	-
	1988	-	-	-	-	-	-	-	-	-	-	-	-	-
	1989	-	-	-	-	-	-	-	-	-	-	-	-	-
	Mean	94	36	21	33	162	368	1,122	1,885	2,622	2,273	680	222	9,518

TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
HA-III (10/13)

-Unit:MCM-

Station Particulars	Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station : Maisamari	1980													
River : Jigwal	1981							40	44	32	54	23	7	-
River Basin : Taraba	1982	9	4	3	3	3	7	52	43	67	26	17	8	242
HA : III	1983	5	3	2	2	10	24	29	29	58	28	8	5	203
SHA : 3111	1984	3	2	3	6	13	26	66	48	47	40	16	7	277
Coordinate	1985	5	3	3	3	3	16	27	35	39	25	7	4	170
- Lat. : 07°06'	1986	2	2	3	3	15	16	29	31	45	30	20	9	205
- Long. : 11°08'	1987	3	2	2	3	-	56	9	43	47	44	13	5	-
Catchment Area (km ²) : 562	1988	3	3	2	4	6	11	27	26	29	21	9	4	145
	1989	3	2	-	-	-	-	-	-	-	-	-	-	-
	Mean	4	3	3	3	8	22	35	37	46	34	14	6	215

TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
HA-III (11/13)

-Unit:MCM-

Station Particulars	Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station : Gombe Abba	1980													
River : Gongola	1981													
River Basin : Benue	1982													
HA : III	1983													
SHA : 3070	1984													
Coordinate	1985	-	-	-	10	67	107	267	458	258	64	12	5	-
- Lat. : 10°50'	1986	5	5	5	12	110	280	770	630	540	200	27	10	2,594
- Long. : 10°30'	1987	8	5	5	3	-	170	-	501	331	142	18	3	-
Catchment Area (km ²) : 17,650	1988	3	3	1	6	43	233	314	863	899	373	65	45	2,848
	1989	13	2	3	3	29	41	137	807	668	-	-	51	-
	Mean	7	4	4	7	62	166	372	652	539	195	31	23	2,062

TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
HA-III (12/13)

-Unit:MCM-

Station Particulars	Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station : Dadin Kowa	1960													
River : Gongola	1961													
River Basin : Benue	1962													
HIA : III	1963													
SHA : 3052	1964													
Coordinate	1965													
- Lat. : 10°18'	1966													
- Long. : 11°29'	1967				20	121	421	852	1,103	592	137	13	7	
Catchment Area (km ²) : 30,460	1968				6	47	95	392	1,857	1,720	536	82	18	4,770
Year Established : 1942	1969	6	5	6	6	47	95	392	1,857	1,720	536	82	18	4,770
	Mean													
	1971	10	14	7	7	33	95	204	2,006	1,575	162	41	17	4,171
	1972	15	12	11	15	34	167	442	1,798	1,517	185	48	25	4,269
	1973	17	13	11	63	49	158	384	1,048	787	131	39	21	2,721
	1974	16	11	9	16	31	81	558	1,834	578	167	68	52	3,421
	1975	38	28	30	35	97	133	647	2,473	1,833	336	97	70	5,817
	1976	55	45	42										
	1977													
	1978													
	1979													
	Mean													
	1980													
	1981	12	10	9	9	50	233	713	682	685	128	35	18	2,584
	1982	12	10	10	9	48	70	338	883	383	170	48	27	2,008
	1983	20	15	13	11	9	186	259	625	409	177	22	14	1,760
	1984	12	10	8	10	108	93	210	364	327	130	40	18	1,330
	1985	12	10	9	14	145	212	642	695	449	105	25	17	2,335
	1986	12	10	8	9	54	250	630	1,110	640	260	41	22	3,046
	1987	14	9	3	5	10	31	55	96	240	217	110	58	848
	1988	40	28	26	31	35	194	544	1,227	1,681	887	259	105	5,057
	1989	46	22	16	18	177	277	348	705	995	517	210	115	3,446
	Mean	20	14	11	13	71	172	415	710	645	288	88	44	2,491

**TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
HA-III (13/13)**

-Unit:MCM-

Station Particulars	Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station : Garkida	1970	0	0	0	0	16	23	46	332	249	86	18	13	783
River : Hawal	1971	11	5	0	0	3	8	126	322	199	0	0	0	674
River Basin : Gongola	1972	0	0	0	0	35	44	105	113	85	11	3	0	396
HA : III	1973	0	0	0	0	-	52	75	-	49	3	0	0	-
SHA : 3032	1974	0	0	0	0	3	8	142	177	186	11	0	0	527
Coordinate	1975	0	0	0	0	0	10	190	228	495	64	21	13	1,021
- Lat. : 10°28'	1976	13	10	3	0	0	62	91	145	93	80	23	13	533
- Long. : 12°32'	1977	11	7	0	0	0	52	129	431	176	86	8	5	905
Catchment Area (km ²) : -	1978	5	5	0	0	0	60	228	268	210	40	13	5	834
Year Established : 1955	1979	0	0	0	0	19	83	161	456	181	131	5	3	1,039
	Mean	4	3	0	0	8	40	129	275	192	51	9	5	716

TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
HA-IV (1/2)

- Unit : MCM -

Station Particulars	Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station : Katsina Ala Power	1970	328	181	346	933	1,547	2,627	3,499	2,920	4,268	4,743	2,168	812	24,372
River : Katsina Ala	1971	337	181	302	596	985	2,255	4,329	3,707	4,821	5,806	2,065	1,218	26,602
River Basin : Benue	1972	440	371	544	1,037	1,728	2,220	3,655	3,491	4,778	5,633	2,981	510	27,388
HA : IV	1973	216	112	-	190	475	1,209	3,560	2,964	4,337	-	915	933	-
SHA : 4052	1974	354	207	225	415	924	1,192	4,104	3,413	5,520	5,909	2,712	1,494	26,469
Coordinate	1975	207	112	164	415	691	1,737	2,376	2,738	4,536	5,144	2,160	726	21,006
- Lat. : 07°15'	1976	423	302	441	778	1,279	2,074	2,022	1,909	5,054	5,408	2,480	1,011	23,181
- Long. : 09°20'	1977	190	104	147	415	1,279	2,168	3,033	2,566	3,749	4,017	1,840	760	20,268
Catchment Area (km ²) : 16,770	1978	328	242	467	898	2,272	2,894	2,964	3,594	5,944	6,367	2,920	1,218	30,108
	1979	259	130	181	432	1,477	2,938	3,689	4,207	4,536	4,467	1,858	820	24,994
	Mean	308	194	313	611	1,266	2,131	3,323	3,151	4,754	5,277	2,210	950	24,488
	1980	345	147	164	302	778	1,849	2,825	3,430	3,888	4,363	1,745	950	20,786
	1981	354	164	190	354	1,417	1,572	3,128	3,775	5,072	3,516	1,624	484	21,650
	1982	199	147	285	311	924	1,737	3,628	4,190	5,443	5,192	1,650	527	24,233
	1983	259	147	164	166	259	1,201	2,946	4,259	4,493	4,734	1,443	743	20,804
	1984	153	138	153	148	255	1,753	2,843	2,996	4,362	4,315	1,515	504	19,135
	1985	-	-	-	-	-	1,285	2,964	3,586	3,468	4,275	2,953	984	-
	1986	239	41	78	192	584	-	-	-	-	-	-	-	-
	1987	-	-	-	-	-	-	-	-	-	-	-	-	-
	1988	-	-	-	-	-	-	-	-	-	-	-	-	-
	1989	-	-	-	-	-	-	-	-	-	-	-	-	-
	Mean	258	131	172	244	703	1,566	3,056	3,706	4,454	4,399	1,822	699	21,210

TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
HA-IV (2/2)

- Unit : MCM -

Station Particulars	Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station : Sevav	1980	-	-	-	-	-	-	-	-	-	-	-	-	-
River : Katsina Ala	1981	-	317	281	411	1,515	1,910	3,958	4,413	6,404	5,155	2,261	863	-
River Basin : Benue	1982	98	222	472	505	982	2,215	4,718	5,048	6,366	1,800	2,487	1,036	25,949
HA : IV	1983	632	359	292	357	687	1,608	2,924	3,844	5,886	3,505	1,179	643	21,916
SHA : 4053	1984	381	132	174	414	604	1,447	3,443	4,052	5,655	5,241	1,816	926	24,285
Coordinate	1985	616	396	404	964	1,059	2,122	2,052	4,656	7,230	6,010	2,005	1,076	28,590
- Lat. : 07°28'	1986	653	414	496	585	930	1,436	2,756	3,810	5,011	6,245	2,695	1,100	26,131
- Long. : 09°13'	1987	665	385	332	435	448	1,215	3,002	3,522	5,805	5,147	1,542	954	23,452
Catchment Area (km ²) : 22,100	1988	689	532	515	665	978	1,740	2,091	2,220	4,733	5,550	1,962	1,067	22,752
	1989	757	497	280	418	1,365	2,391	3,811	5,372	6,560	6,716	2,082	895	31,144
	Mean	561	362	361	528	952	1,787	3,195	4,104	5,961	5,042	2,003	954	25,810

TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
HA-VI (1/7)

- Unit : MCM -

Station Particulars	Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station : Sepeteri	1980	-	-	-	-	-	1.4	4.1	28.2	72.1	80.9	23.9	7.5	-
River : Ogun	1981	-	-	-	-	0.0	2.0	1.8	15.3	44.8	35.2	1.8	-	-
River Basin : Ogun	1982	-	-	-	-	-	1.8	0.6	-	-	32.4	10.9	-	-
HA : VI	1983	-	-	-	-	0.4	4.9	4.8	-	-	-	-	-	-
SHA : 6022	1984	-	-	-	-	-	10.4	28.3	123.7	-	55.6	2.8	-	-
Coordinate	1985	-	-	-	-	-	-	22.6	64.2	94.4	105.3	56.0	4.0	-
- Lat. : 08°38'	1986	-	-	-	-	-	-	0.7	-	15.1	21.6	5.3	0.9	-
- Long. : 03°39'	1987	-	-	-	-	-	-	0.5	53.6	88.7	38.7	5.6	-	-
Catchment	1988	-	-	-	-	-	1.0	63.9	87.6	123.6	110.8	16.6	0.6	-
Area (km ²) : 1,060	1989	-	-	-	-	-	2.2	38.2	121.8	118.2	-	39.9	1.9	-
Mean		-	-	-	-	0.2	3.4	16.6	70.6	79.6	60.1	19.9	3.0	253

TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
HA-VI (2/7)

- Unit : MCM -

Station Particulars	Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station : Ofiki Town	1980	0.0	0.2	0.0	-	-	1.3	4.0	17.8	99.3	51.5	8.8	0.8	-
River : Ofiki	1981	0.0	0.0	0.0	-	-	4.2	3.8	28.4	32.3	35.4	3.0	0.4	-
River Basin : Ogun	1982	0.0	0.0	0.0	-	-	0.4	0.5	-	4.3	20.0	2.7	-	-
HA : VI	1983	0.0	1.9	0.0	-	3.0	1.5	0.8	1.1	1.8	1.2	-	-	-
SHA : 6021	1984	0.0	0.0	0.0	0.3	-	-	-	-	-	-	9.5	-	-
Coordinate	1985	0.0	0.0	0.0	-	-	-	10.1	125.6	-	-	-	-	-
- Lat. : 08°28'	1986	0.0	0.0	0.0	-	-	1.4	3.8	4.0	21.0	15.6	2.7	-	-
- Long. : 03°19'	1987	0.0	0.0	0.0	-	-	9.4	9.3	116.9	114.2	27.8	-	-	-
Catchment	1988	-	-	-	-	-	-	-	-	-	-	-	-	-
Area (km ²) : 438	1989	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean		0.0	0.3	0.0	0.3	3.0	3.0	4.6	49.0	45.5	25.3	5.3	0.6	137

TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
HA-VI (3/7)

- Unit : MCM -

Station Particulars	Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station : Iganna	1980													
River : Ofiki	1981	2	1	1	1	7	38	-	35	36	46	2	2	-
River Basin : Ogun	1982	1	1	1	2	3	7	6	3	4	13	16	6	63
HA : VI	1983	1	-	-	-	2	7	6	2	2	2	1	1	-
SHA : 6021	1984	-	-	-	-	2	10	48	215	382	365	119	2	-
Coordinate	1985	-	-	-	0	1	-	-	-	-	-	-	-	-
- Lat. : 08°06'	1986	-	-	-	-	-	-	268	185	267	268	166	23	-
- Long. : 03°14'	1987	3	3	2	1	2	39	80	-	-	197	94	33	-
Catchment	1988	1	1	1	1	1	17	175	296	-	296	47	2	-
Area (km ²) : 2,780	1989	7	0	-	1	5	19	98	316	-	64	39	34	-
Mean		3	1	1	1	3	20	97	150	138	156	61	13	644

TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
HA-VI (4/7)

- Unit : MCM -

Station Particulars	Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station : Ilaji-Ile Road	1980	0.6	0.4	0.3	0.2	0.2	0.8	1.1	8.1	100.2	82.4	14.7	1.6	211
River : Oyan	1981	0.9	1.6	0.4	0.5	0.9	3.1	10.7	60.8	139.3	-	5.4	3.1	-
River Basin : Ogun	1982	1.7	0.7	0.6	0.4	0.9	3.4	1.8	1.5	5.1	13.7	5.0	0.7	36
HA : VI	1983	0.4	0.3	-	-	-	-	5.2	2.3	10.4	50.6	1.8	0.2	-
SHA : 6021	1984	-	-	0.6	1.0	1.0	3.3	15.2	96.9	-	161.3	2.8	0.4	-
Coordinate	1985	-	-	-	-	-	-	-	-	-	-	-	-	-
- Lat. : 07°58'	1986	-	-	-	-	-	-	-	-	-	-	-	-	-
- Long. : 03°02'	1987	-	-	-	-	0.4	1.3	0.4	106.3	162.4	48.5	3.5	0.6	-
Catchment	1988	0.4	0.2	-	-	-	-	4.6	85.3	113.7	60.0	3.6	2.2	-
Area (km ²) : 1,460	1989	1.0	0.5	0.7	0.7	0.6	1.2	31.5	18.9	52.8	26.0	3.5	1.3	139
Mean		0.8	0.6	0.5	0.6	0.7	2.2	8.8	47.5	83.4	63.2	5.0	1.3	215

TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
HA-VI (5/7)

- Unit : MCM -

Station Particulars	Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station : Apoje	1980													
River : Oshun	1981													
River Basin : Oshun	1982	217	181	196	195	269	359	374	253	308	567	306	217	3,442
HA : VI	1983	193	174	193	191	313	190	294	251	455	350	213	183	3,000
SHA : 6052	1984	193	180	193	-	205	329	418	475	441	483	285	218	-
Coordinate	1985	169	-	179	-	215	290	540	368	379	583	398	242	-
- Lat. : 06°59'	1986	98	210	299	216	216	281	345	361	416	-	399	-	-
- Long. : 04°07'	1987	189	174	193	187	197	-	-	-	-	-	-	-	-
Catchment	1988	-	-	-	-	-	-	-	-	-	-	-	-	-
Area (km ²) : 8,170	1989	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean		177	184	209	197	236	290	394	342	400	496	320	215	3,460

TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
HA-VI (6/7)

- Unit : MCM -

Station Particulars	Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station : Awe-Ife Odan	1980													
River : Oba	1981	1.1	0.7	0.6	1.4	2.1	16.2	4.7	2.2	43.7	46.4	23.3	11.9	154
River Basin : Oshun	1982	6.9	2.6	2.0	1.2	15.9	45.4	14.2	1.7	6.0	16.6	16.7	3.8	133
HA : VI	1983	0.2	0.5	-	0.1	5.2	9.2	0.1	4.2	13.3	11.7	1.2	-	-
SHA : 6051	1984	-	-	-	-	1.8	1.3	14.5	23.9	43.4	21.1	1.5	0.4	-
Coordinate	1985	0.5	-	-	0.3	0.6	3.6	16.6	44.8	49.6	18.0	7.1	0.4	-
- Lat. : 08°06'	1986	-	-	-	-	-	-	-	-	-	-	-	-	-
- Long. : 04°09'	1987	-	-	-	-	-	-	-	-	-	-	-	-	-
Catchment	1988	-	-	-	-	-	-	-	-	-	-	-	-	-
Area (km ²) : 930	1989	-	-	0.1	0.6	4.4	8.1	19.7	-	9.0	20.5	22.1	1.6	-
Mean		2.2	1.3	0.9	0.7	5.0	14.0	11.6	15.4	27.5	22.4	12.0	3.6	117

**TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
HA-VI (7/7)**

- Unit : MCM -

Station Particulars	Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station : Oyo-Ogbomosho Rood	1980						10	62	6	6	186	7	1	-
River : Oba	1981	0	0	0	-	-	19	15	3	22	62	12	-	-
River Basin : Oshun	1982	0	0	0	-	12	5	4	1	8	9	-	-	-
HA : VI	1983	0	0	0	-	-	19	23	55	60	40	4	-	-
SHA : 6051	1984	0	0	0	-	5	8	70	129	167	82	-	-	-
Coordinate	1985	0	0	0	-	-	2	14	5	65	84	9	1	-
- Lat. : 07°50'	1986	0	0	-	-	-	5	3	110	174	120	10	5	-
- Long. : 04°04'	1987	0	0	0	-	-	5	40	15	100	107	5	-	-
Catchment	1988	0	0	1	1	-	13	44	44	91	47	7	-	-
Area (km ²) : 1,580	1989	0	0	0	0	5	10	31	41	77	82	8	2	259
	Mean	0	0	0	1	7	10	31	41	77	82	8	2	259

TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
HA-VII (1/11)

- Unit : MCM -

Station Particulars	Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station : Ikom	1970	-	-	-	-	-	-	-	-	4,776	5,923	3,029	462	-
River : Cross	1971	58	49	465	472	713	2,502	6,379	8,280	7,165	4,145	1,542	833	32,963
River Basin : Cross	1972	425	297	874	690	1,084	2,640	3,793	6,222	7,690	4,983	1,370	612	30,680
HA : VI	1973	358	218	300	538	1,083	1,397	2,660	3,763	2,152	3,930	1,632	650	18,681
SHA : 7041	1974	276	109	227	665	1,182	2,775	2,942	4,922	6,850	5,744	1,152	851	27,695
Coordinate	1975	412	250	267	490	993	1,238	1,065	4,676	5,910	7,401	4,152	560	27,414
- Lat. : 05°29'	1976	734	573	-	435	351	-	-	-	6,719	6,588	-	-	-
- Long. : 08°43'	1977	-	-	193	310	683	-	5,001	5,628	6,682	5,269	-	-	-
Catchment	1978	-	-	-	-	-	-	-	-	4,165	5,504	1,733	533	-
Area (km ²) : 16,900	1979	-	-	-	-	-	-	3,724	6,673	5,796	3,738	1,697	622	-
Year Established : 1953	Mean	377	249	388	514	870	2,110	3,703	5,738	5,791	5,323	2,038	640	27,741
	1980	271	203	313	283	850	2,334	3,732	5,978	6,956	5,369	2,311	799	29,399
	1981	476	236	794	508	1,652	1,881	5,388	6,298	6,443	3,717	1,875	707	29,975
	1982	476	317	406	574	1,365	3,011	4,883	7,134	6,892	5,010	2,038	825	32,931
	1983	460	241	114	305	635	1,995	4,950	6,709	5,843	3,152	325	694	25,423
	1984	380	202	304	521	715	1,618	3,162	3,263	5,036	4,475	825	-	-
	1985	-	-	-	-	-	-	-	-	-	-	-	-	-
	1986	500	414	549	448	1,084	3,676	4,636	5,188	6,242	5,866	1,913	690	31,206
	1987	466	416	482	456	1,085	1,696	2,299	3,883	5,423	4,961	1,222	584	22,973
	1988	338	138	201	306	627	1,380	2,838	4,363	5,219	5,757	1,494	654	23,315
	1989	322	131	115	355	839	1,585	2,852	5,282	5,973	5,408	1,469	544	24,875
	Mean	410	255	364	417	984	2,131	3,860	5,344	6,003	4,857	1,497	687	26,809

**TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
HA-VII (2/11)**

- Unit : MCM -

Station Particulars	Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station : Adonatom	1970													
River : Cross	1971													
River Basin : Cross	1972													
HA : W	1973													
SHA : 7042	1974													
Coordinate	1975	677	555	638	647	947	1,110	1,278	1,748	2,041	2,253	1,445	1,238	14,577
- Lat. : 06°09'	1976	1,035	866	1,045	1,565	3,422	2,977	-	7,719	5,401	-	-	-	-
- Long. : 08°28'	1977	-	-	-	-	1,932	4,642	6,864	6,602	7,743	6,256	2,824	1,571	-
Catchment	1978	946	-	-	-	-	-	-	-	-	6,761	3,781	577	-
Area (km ²) : 18,900	1979	-	-	-	1,415	1,444	2,431	5,818	7,116	5,307	3,937	2,849	1,545	-
Year Established : 1973	Mean													
	1980	762	248	344	372	1,005	2,577	4,382	7,321	7,849	7,135	4,645	1,025	37,665
	1981	-	1,044	1,129	1,570	3,172	2,597	3,780	7,686	7,849	5,746	2,355	1,108	-
	1982	904	659	838	-	1,450	2,522	4,021	7,233	7,849	-	2,609	1,746	-
	1983	1,273	1,014	1,055	1,260	2,030	2,549	5,330	7,817	7,822	6,418	2,947	1,677	41,192
	1984	1,149	977	1,326	2,123	2,242	3,043	4,375	6,513	7,439	5,739	1,523	837	37,286
	1985	606	-	514	798	1,984	2,619	3,496	4,020	7,110	4,556	2,434	1,449	-
	1986	915	816	1,502	-	2,476	3,388	5,242	5,302	6,494	4,667	3,858	1,981	-
	1987	1,062	565	456	294	-	-	-	-	-	-	-	-	-
	1988	-	-	-	-	-	-	-	-	-	-	-	-	-
	1989	-	-	-	-	-	-	-	-	-	-	-	-	-
	Mean	953	760	896	1,070	2,051	2,756	4,375	6,556	7,487	5,710	2,910	1,403	36,927

**TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
HA-VII (3/11)**

- Unit : MCM -

Station Particulars	Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station : Obubra	1970	-	-	-	-	2,274	4,909	6,269	7,868	10,282	7,358	-	851	-
River : Cross	1971	441	214	318	1,099	816	2,403	6,524	9,290	10,380	9,893	6,202	3,295	50,875
River Basin : Cross	1972	533	362	613	1,240	1,531	4,128	4,459	5,969	9,856	8,250	2,111	798	39,850
HA : VI	1973	481	185	219	542	1,225	1,996	2,617	5,510	8,277	6,862	2,190	885	30,989
SHA : 7043	1974	393	160	230	715	1,616	3,421	5,555	9,319	11,509	11,251	3,557	971	48,697
Coordinate	1975	421	255	272	479	1,338	1,826	4,252	4,622	7,658	10,205	2,780	1,294	35,402
- Lat. : 06°06'	1976	599	584	850	1,084	2,348	4,477	7,449	8,645	8,791	10,398	5,536	1,196	51,957
- Long. : 08°20'	1977	-	324	176	286	692	2,855	5,489	-	10,984	8,476	-	-	-
Catchment	1978	-	-	-	-	-	-	-	-	-	9,761	-	-	-
Area (km ²) : 35,800	1979	-	-	-	-	-	-	-	-	-	-	-	-	-
Year Established : 1953	Mean	478	298	383	778	1,480	3,252	5,327	7,318	9,717	9,162	3,729	1,327	43,249
	1980	-	-	301	382	1,116	3,654	5,506	9,679	12,248	10,353	3,657	-	-
	1981	-	-	-	-	-	-	7,471	10,410	11,538	7,333	-	846	-
	1982	-	-	-	-	-	-	-	-	-	-	-	-	-
	1983	481	247	152	223	681	-	6,832	9,174	9,060	-	-	-	-
	1984	-	-	-	-	-	-	-	-	-	-	-	-	-
	1985	-	-	-	-	-	-	-	-	9,087	7,665	2,545	1,034	-
	1986	456	239	412	472	-	-	-	-	-	-	-	-	-
	1987	324	116	155	287	817	1,875	3,894	6,159	10,303	8,228	1,777	686	34,621
	1988	348	128	169	321	887	1,777	4,695	9,734	10,769	8,228	1,665	632	39,343
	1989	314	104	231	280	554	-	-	-	-	-	-	-	-
	Mean	385	167	237	329	811	2,435	5,680	9,031	10,501	8,361	2,411	800	41,148

TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
HA-VII (4/11)

- Unit : MCM -

Station Particulars	Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station : Afikpo	1970													
River : Cross	1971													
River Basin : Cross	1972	748	504	689	1,281	2,099	5,286	5,261	7,611	11,814	10,586	2,585	1,044	49,508
HA : VI	1973	749	443	511	808	1,567	2,856	3,249	7,110	10,367	8,775	2,636	-	-
SHA : 7060	1974	633	379	457	945	1,965	4,187	7,582	11,178	-	-	-	-	-
Coordinate	1975	658	459	533	765	2,117	2,716	5,518	6,527	9,022	11,586	3,730	1,596	45,237
- Lat. : 05°51'	1976	867	812	1,161	1,334	3,227	-	8,516	9,662	10,519	-	6,862	1,511	-
- Long. : 07°52'	1977	890	529	399	477	983	2,819	7,425	9,928	-	-	2,335	938	-
Catchment	1978	579	383	531	1,168	2,094	5,812	5,792	8,079	11,846	11,546	4,074	1,162	53,066
Area (km ²) : 46,200	1979	626	511	618	859	2,254	5,109	7,401	10,507	11,385	7,471	3,153	1,128	51,022
Year Established : 1953	Mean	719	503	615	953	2,038	4,112	6,343	8,825	10,826	9,993	3,625	1,230	49,782
	1980	650	388	454	537	1,496	4,398	6,939	10,970	-	-	4,431	1,388	-
	1981	740	439	437	746	2,875	2,931	9,076	12,160	13,830	9,663	3,387	1,135	57,419
	1982	736	437	662	801	2,104	4,957	9,088	10,670	13,130	12,430	3,815	1,299	60,129
	1983	707	418	316	409	979	3,188	-	10,700	11,050	5,148	1,720	991	-
	1984	605	369	445	763	1,312	3,462	4,838	6,884	9,904	7,998	2,739	1,095	40,414
	1985	-	-	-	957	1,770	2,588	-	-	-	-	-	-	-
	1986	492	286	455	555	1,402	2,271	8,393	7,188	11,840	11,190	2,989	857	47,918
	1987	430	253	225	318	-	-	-	-	-	-	-	-	-
	1988	-	-	-	-	-	-	-	-	-	-	-	-	-
	1989	-	350	191	453	1,331	-	-	-	-	-	-	-	-
	Mean	623	368	398	615	1,659	3,399	7,667	9,762	11,951	9,286	3,180	1,128	50,036

**TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
HA-VII (5/11)**

- Unit : MCM -

Station Particulars		Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station	: Ikot Okpara	1970													
River	: Cross	1971													
River Basin	: Cross	1972													
HA	: VI	1973													
SHA	: 7060	1974													
Coordinate		1975	822	754	443	783	1,903	2,708	5,771	7,002	9,242	12,198	4,225	1,635	47,486
- Lat.	: 05°24'	1976	766	798	980	1,248	2,950	5,484	8,376	9,884	10,947	12,232	7,668	1,424	62,757
- Long.	: 08°04'	1977	775	445	192	377	828	3,065	7,263	10,279	13,129	12,940	2,645	1,098	53,036
Catchment		1978	659	378	668	1,353	2,123	5,871	6,263	8,640	12,179	12,168	4,304	1,278	55,884
Area (km ²)	: 48,300	1979	533	298	373	560	2,189	5,651	7,592	10,495	12,009	7,854	3,310	1,285	52,149
Year Established	: 1973	Mean	711	535	531	864	1,999	4,556	7,053	9,260	11,501	11,478	4,430	1,344	54,262
		1980	628	-	342	464	1,467	4,647	7,045	12,207	14,298	13,463	4,900	-	-
		1981	737	450	433	692	2,898	3,173	9,164	12,773	14,454	10,396	3,561	1,050	59,781
		1982	649	359	589	711	2,130	5,185	9,353	11,048	13,696	12,858	4,290	1,195	62,063
		1983	601	336	328	404	881	3,135	7,756	11,312	11,402	5,744	2,203	815	44,917
		1984	549	320	383	712	1,352	3,744	5,288	7,309	11,059	8,364	2,905	1,046	43,031
		1985	531	294	260	1,014	1,955	2,982	5,088	8,619	10,880	10,179	3,381	1,017	46,200
		1986	568	327	577	826	1,717	2,678	8,748	8,149	12,000	11,900	3,989	1,042	52,521
		1987	587	339	316	567	718	2,064	4,730	7,424	13,131	9,988	2,347	847	43,058
		1988	501	373	383	466	935	2,290	4,143	7,341	10,821	11,781	3,160	1,219	43,413
		1989	539	213	131	484	1,587	3,302	5,810	10,530	13,825	13,697	3,986	1,214	55,318
		Mean	589	335	374	634	1,564	3,320	6,713	9,671	12,557	10,837	3,472	945	51,011

TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
HA-VII (6/11)

-Unit:MCM-

Station Particulars		Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station	: Ugwu NKPA	1970													
River	: Eme	1971													
River Basin	: Imo	1972													
HA	: VI	1973													
SHA	: 7052	1974													
Coordinate		1975													
- Lat.	: 05°35'	1976													
- Long.	: 07°26'	1977													
Catchment		1978				2.1	3.4	11.7	14.1	9.6	10.7	8.5	4.1	1.3	-
Area (km ²)	: 230	1979	-	-	-	-	-	-	-	-	-	-	-	-	-
		Mean													
		1980	1.7	2.0	2.2	2.2	3.1	7.1	5.5	11.2	13.9	10.9	4.3	2.1	66
		1981	1.9	1.6	3.0	2.8	5.9	2.9	13.5	5.9	6.7	8.4	2.7	1.8	57
		1982	1.8	1.9	2.4	2.1	3.9	11.8	15.8	10.9	9.4	4.0	3.1	1.9	69
		1983	1.8	1.6	4.5	3.9	2.1	4.9	12.0	3.4	11.8	7.5	1.8	1.8	57
		1984	3.9	4.1	4.0	2.1	2.2	16.0	12.7	14.2	12.1	12.1	3.8	2.0	89
		1985	2.6	4.6	4.6	3.1	6.7	7.3	11.2	26.4	25.7	7.4	3.0	2.0	105
		1986	1.9	3.0	2.9	2.3	2.8	3.3	7.9	6.1	12.5	9.8	2.7	1.9	57
		1987	1.9	3.3	2.3	-	-	-	-	-	-	-	-	-	-
		1988	-	-	-	-	-	-	-	-	-	-	-	-	-
		1989	-	-	-	-	-	-	-	-	-	-	-	-	-
		Mean	2.2	2.8	3.2	2.6	3.8	7.6	11.2	11.2	13.2	8.6	3.1	1.9	71

TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
HA-VII (7/11)

-Unit:MCM-

Station Particulars		Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station	: Ulakwo	1970													
River	: Oramiriukwa	1971													
River Basin	: Imo	1972													
HA	: VI	1973													
SHA	: 7051	1974													
Coordinate		1975													
- Lat.	: 05°25'	1976													
- Long.	: 07°07'	1977													
Catchment Area (km ²)	: 795	1978						6.0	7.0	5.7	12.6	10.9	6.7	4.3	
		1979	4.2	3.9	4.2	3.7	4.3	6.7	6.8	8.2	10.5	9.3	6.2	4.3	72.3
		Mean													
		1980	4.2	3.5	3.9	4.1	4.7	6.7	7.4	9.1	10.2	11.5	6.0	5.7	77.0
		1981	5.6	4.6	5.3	4.9	6.5	5.4	7.9	8.2	11.1	8.6	6.0	4.8	78.9
		1982	4.7	3.8	4.7	4.7	5.6	9.2	9.7	9.6	9.5	11.9	7.3	5.9	86.5
		1983	5.7	5.1	-	4.7	5.8	6.7	7.6	6.5	10.4	8.0	3.3	3.2	-
		1984	2.3	2.1	2.7	2.4	3.0	5.6	6.6	6.4	5.9	5.4	2.5	1.7	46.6
		1985	1.4	1.2	1.3	2.2	2.0	2.4	7.4	14.3	10.5	5.8	4.7	3.8	57.0
		1986	3.6	2.9	3.5	3.0	3.8	4.3	6.0	5.7	10.0	9.4	4.7	3.1	60.0
		1987	2.9	2.4	2.7	2.4	2.2	3.2	3.9	8.7	12.6	8.2	3.1	0.5	52.8
		1988	2.0	1.6	1.9	3.6	2.2	3.2	3.6	4.0	7.7	10.5	4.0	3.1	47.4
		1989	2.1	1.7	2.1	-	-	-	-	-	-	-	-	-	-
		Mean	3.5	2.9	3.1	3.6	4.0	5.2	6.7	8.0	9.8	8.8	4.6	3.5	63.7

**TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
HA-VII (8/11)**

-Unit:MCM-

Station Particulars		Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station	: Ndimoko	1970													
River	: Imo	1971													
River Basin	: Imo	1972													
HA	: VI	1973													
SHA	: 7052	1974													
Coordinate		1975													
- Lat.	: 05°52'	1976													
- Long.	: 07°15'	1977				2.9	6.5	12.4	20.6	10.2	27.7	19.9	11.9	5.4	-
Catchment Area (km ²)	: 160	1978	4.0	2.7	3.0	3.1	6.4	15.4	16.7	11.8	21.9	20.3	8.7	5.1	119
		Mean													
		1980	3.6	2.7	3.1	2.2	4.4	5.0	16.9	14.4	15.8	18.1	7.8	4.3	98
		1981	3.2	1.7	2.0	3.2	5.1	5.5	33.9	9.8	26.1	16.3	8.7	3.7	119
		1982	2.0	2.2	3.7	2.0	11.6	13.4	14.8	12.9	17.2	24.5	7.9	4.2	116
		1983	2.6	1.5	1.9	1.2	3.9	3.0	6.9	6.4	23.3	12.5	4.7	1.3	69
		1984	0.1	-	-	2.0	2.4	14.5	8.4	11.1	17.3	13.1	3.6	1.7	-
		1985	1.1	2.1	2.7	8.1	7.2	6.0	17.9	23.0	19.4	15.0	4.1	2.1	109
		1986	1.2	3.6	3.8	-	-	-	-	-	-	-	-	-	-
		1987	-	-	-	-	-	-	-	-	-	-	-	-	-
		1988	-	-	-	-	-	-	-	-	-	-	-	-	-
		1989	-	-	-	-	-	-	-	-	-	-	-	-	-
		Mean	2.0	2.3	2.9	3.1	5.8	7.9	16.5	12.9	19.9	16.6	6.1	2.9	99

**TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
HA-VII (9/11)**

-Unit:MCM-

Station Particulars		Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station	: Umuna	1970													
River	: Imo	1971													
River Basin	: Imo	1972													
HIA	: VI	1973													
SHA	: 7052	1974													
Coordinate		1975													
- Lat.	: 05°47'	1976													
- Long.	: 07°18'	1977													
Catchment Area (km ²)	: 490	1978	-	-	-	5.4	12.5	24.9	63.9	25.5	99.2	68.6	27.7	11.8	-
		1979	7.7	5.9	7.6	5.5	17.7	62.3	69.5	36.8	86.2	66.2	29.7	11.0	406
		Mean													
		1980	7.5	6.4	6.0	5.7	10.5	18.7	43.7	51.2	66.7	79.7	27.5	10.2	334
		1981	8.3	5.2	5.4	14.3	14.7	13.7	51.5	28.4	34.7	34.3	19.9	9.4	240
		1982	7.0	5.6	7.8	6.0	17.7	26.2	25.7	27.8	26.9	34.6	16.3	8.3	210
		1983	5.9	4.1	4.0	5.7	11.9	12.1	27.5	20.2	89.3	35.6	11.3	9.4	237
		1984	7.2	5.8	6.3	7.7	10.4	53.2	51.7	90.3	100.5	65.2	12.1	10.5	421
		1985	9.3	6.5	5.6	18.2	17.8	22.9	82.0	110.6	64.8	48.2	16.4	10.1	412
		1986	12.5	5.9	7.0	6.6	15.4	17.3	27.8	25.8	60.4	57.7	17.6	7.2	261
		1987	4.4	3.7	4.1	3.9	4.0	10.6	95.0	108.5	137.5	-	-	7.0	-
		1988	5.8	4.3	5.0	6.8	6.1	9.5	26.9	22.1	96.5	92.9	14.7	10.8	301
		1989	6.2	4.5	5.1	-	-	-	-	-	-	-	-	-	-
		Mean	7.4	5.2	5.6	8.3	12.1	20.5	48.0	53.9	75.3	56.0	17.0	9.2	319

**TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
HA-VII (10/11)**

-Unit:MCM-

Station Particulars		Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station	: Umuopara	1970													
River	: Imo	1971													
River Basin	: Imo	1972													
HA	: VI	1973													
SHA	: 7052	1974													
Coordinate		1975													
- Lat.	: 05°33'	1976													
- Long.	: 07°25'	1977				30	38	70	190	116	352	162	55	31	-
Catchment Area (km ²)	: 1,450	1978	29	26	32	8	40	141	175	115	240	169	67	19	1,061
		Mean													
		1980	16	11	14	-	-	-	-	-	-	-	-	-	-
		1981	-	-	-	-	-	-	-	-	-	-	-	-	-
		1982	-	-	-	-	-	-	-	-	-	-	-	-	-
		1983	-	-	-	-	40	56	106	58	231	271	-	-	-
		1984	25	21	25	42	54	161	183	188	218	132	82	84	1,215
		1985	80	54	37	92	111	116	243	305	277	158	86	55	1,614
		1986	47	38	46	45	63	87	121	114	223	193	69	46	1,092
		1987	39	33	39	36	37	68	158	203	290	265	-	-	-
		1988	-	32	35	45	44	69	-	-	-	-	-	57	-
		1989	41	33	40	-	-	-	-	-	-	-	-	-	-
		Mean	41	32	34	52	58	91	162	174	248	204	79	61	1,236

**TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
HA-VII (11/11)**

-Unit:MCM-

Station Particulars		Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station	: Obigbo	1970													
River	: Imo	1971													
River Basin	: Imo	1972													
IIA	: VI	1973													
SHA	: 7052	1974													
Coordinate		1975													
- Lat.	: 04°52'	1976													
- Long.	: 07°11'	1977													
Catchment Area (km ²)	: 5,600	1978	-	-	-	266	326	321	396	315	431	471	349	270	-
		1979	262	223	247	268	278	295	427	380	523	519	392	310	4,124
		Mean													
		1980	288	250	277	265	285	294	324	447	492	534	421	320	4,197
		1981	297	254	281	273	308	287	382	386	387	485	387	-	-
		1982	-	-	-	-	-	389	471	418	470	553	387	-	-
		1983	-	-	-	-	277	282	328	301	377	473	302	297	-
		1984	285	261	278	255	277	333	399	543	417	412	367	315	-
		1985	294	248	269	303	315	323	412	511	550	434	406	299	4,364
		1986	288	269	273	265	255	297	349	337	413	465	383	340	3,934
		1987	280	226	254	256	263	268	363	296	478	431	321	381	3,817
		1988	275	253	259	279	258	277	287	333	390	542	395	370	3,918
		1989	289	256	280	-	-	-	-	-	-	-	-	-	-
		Mean	287	252	271	271	280	306	368	397	442	481	374	332	4,061

TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
HA-VIII (1/20)

-Unit : MCM -

Station Particulars		Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station	: Gwarzo Road	1960													
River	: Watari	1961													
River Basin	: Hadejia	1962													
HA	: VII	1963													
SHA	: 8033	1964													
Coordinate		1965	0	0	0	0	0	0	26.1	51.2	8.3	0	0	0	86
- Lat.	: 12°00'	1966	0	0	0	0	0	6.5	8.3	22.6	19.3	1.7	0	0	58
- Long.	: 08°24'	1967	0	0	0	0	0	0	32.3	38.3	6.4	0.8	0	0	78
Catchment Area (km ²)	: 1,450	1968	-	-	-	-	-	-	-	-	-	-	-	-	-
Year Established	: 1963	1969	0	0	0	0	3.7	31.3	39.2	136.2	21.3	4.0	0.4	0	236
		Mean													
		1970	0	0	0	0	0	0.1	62.3	105.7	78.8	0.9	0.4	0	248
		1971	0	0	0	0	0	0	7.6	26.6	35.7	0.6	0	0	71
		1972	0	0	0	0	0.3	8.5	23.9	53.3	2.5	0.2	0	0	89
		1973	0	0	0	0	0	0.7	10.1	11.6	6.1	0	0	0	29
		1974	0	0	0	0	18.8	2.8	24.1	37.0	18.1	1.3	0	0	102
		1975	0	0	0	0	8.3	19.4	17.4	32.2	0	0.3	0	0	78
		1976	0	0	0	27.7	18.0	20.2	28.9	38.6	34.7	30.0	0	0	198
		1977	0	0	0	0	28.7	17.9	19.6	28.9	37.3	35.9	29.0	0	197
		1978	0	0	0	0	0	4.7	10.7	47.2	11.1	0	0	0	74
		1979	0	0	0	0	0	0.4	4.3	55.2	10.9	0	0	0	71
		Mean	0	0	0	3.1	8.2	7.5	20.9	43.6	23.5	6.9	3.3	0	117
		1980	-	-	-	-	-	-	-	-	-	-	-	-	-
		1981	0	0	0	0	0	0	6.0	3.8	0	0	0	0	10
		1982	0	0	0	0	0	0.4	0	8.3	15.4	0	0	0	24
		1983	0	0	0	0	0	2.5	30.9	-	3.4	0.6	0	0	-
		1984	0	0	0	0	0	8.2	19.8	4.1	11.3	0.9	0	0	44
		1985	0	0	0	0	0	31.5	79.4	62.8	14.4	0	0	0	188
		1986	0	0	0	0	0	0	0	8.9	44.9	6.5	0	0	60
		1987	0	0	0	0	0	8.0	15.0	23.7	8.8	3.0	0	0	59
		1988	0	0	0	0	0	13.1	52.8	165.0	259.5	31.0	43.3	0	565
		1989	0	0	0	0	0	110.4	281.7	88.7	77.0	0	0	0	558
		Mean	0	0	0	0	0	19.3	54.0	45.7	48.3	4.7	4.8	0	177

TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
HA-VIII (2/20)

-Unit : MCM-

Station Particulars		Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station	: Challawa Gorge	1960													
River	: Challawa	1961													
River Basin	: Hadejia	1962													
HA	: VII	1963													
SIA	: 8032	1964	0	0	0	0	25	67	187	281	138	7	0	0	705
Coordinate		1965	0	0	0	0	25	68	190	285	140	7	0	0	715
- Lat.	: 11°42'	1966	0	0	0	0	27	73	206	309	152	8	0	0	775
- Long.	: 08°02'	1967	0	0	0	0	15	40	112	167	82	4	0	0	420
Catchment Area (km ²)	: 3,859	1968	0	0	0	0	13	34	95	143	70	3	0	0	358
Year Established	: 1963	1969	0	0	0	0	24	65	183	276	135	7	0	0	690
		Mean	0	0	0	0	22	58	162	244	120	6	0	0	612
		1970	0	0	0	0	23	61	170	254	125	7	0	0	640
		1971	0	0	0	0	0	7	64	237	136	2	0	0	446
		1972	0	0	0	0	10	42	52	175	12	1	0	0	292
		1973	0	0	0	0	0	14	74	70	33	0	0	0	191
		1974	0	0	0	0	20	17	91	172	70	16	0	0	386
		1975	0	0	0	0	0	10	278	222	273	1	0	0	784
		1976	0	0	0	0	2	44	72	74	27	21	1	0	241
		1977	0	0	0	0	8	61	77	441	141	2	0	0	730
		1978	0	0	0	0	19	38	193	137	149	2	0	0	538
		1979	0	0	0	0	38	108	229	180	36	1	0	0	592
		Mean	0	0	0	0	12	40	130	196	100	5	0	0	483
		1980	0	0	0	0	40	21	18	150	18	0	0	0	247
		1981	0	0	0	1	*11	*13	89	68	*65	0	0	0	247
		1982	0	0	0	0	5	35	*24	*60	44	3	0	0	171
		1983	0	0	0	0	17	48	128	131	37	0	0	0	361
		1984	0	0	0	0	35	*15	*46	87	69	12	0	0	264
		1985	0	0	0	0	0	6	*88	*143	*159	*51	0	0	447
		1986	0	0	0	0	6	12	71	249	54	1	0	0	393
		1987	0	0	0	0	0	72	34	97	8	6	0	0	217
		1988	0	0	0	0	1	78	12	585	156	1	0	0	833
		1989	0	0	0	0	1	3	36	130	8	5	0	0	183
		Mean	0	0	0	0	12	30	55	170	62	8	0	0	337

TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
HA-VIII (3/20)

-Unit : MCM-

Station Particulars	Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station : Challawa Bridge	1960													
River : Challawa	1961													
River Basin : Hadeja	1962													
HA : VIII	1963													838
SHA : 8032	1964	0	0	0	0	0	62	212	416	144	4	0	0	573
Coordinate	1965	0	0	0	0	0	5	145	237	153	33	0	0	882
- Lat. : 11°43'	1966	0	0	0	0	38	84	41	458	257	3	1	0	522
- Long. : 08°23'	1967	0	0	0	0	0	0	161	244	110	7	0	0	
Catchment	1968													
Area (km ²) : 6,889	1969													
Year Established : 1964	Mean													
	1970	0	0	0	0	6	35	187	279	229	5	1	0	742
	1971	0	0	0	0	8	8	68	272	269	1	0	0	626
	1972	0	0	0	0	22	88	91	326	218	4	0	0	749
	1973	1	0	0	0	2	69	108	30	4	5	0	0	219
	1974	0	1	0	0	61	22	296	728	449	80	2	1	1,640
	1975	0	0	0	11	42	69	395	355	389	4	0	0	1,265
	1976	0	0	0	0	9	105	165	132	63	30	1	0	505
	1977	1	0	0	0	9	80	127	564	232	8	0	1	1,022
	1978	0	0	0	2	46	70	181	240	199	13	2	0	753
	1979	0	0	0	0	19	96	247	280	104	4	0	0	750
	Mean	0	0	0	1	22	64	187	321	216	15	1	0	827
	1980	1	0	0	0	63	54	50	260	49	5	0	0	482
	1981	0	0	0	1	43	29	180	68	69	0	0	0	390
	1982	0	0	0	9	4	40	18	51	49	6	14	0	191
	1983	0	0	26	0	6	8	39	69	15	0	0	0	163
	1984	0	0	0	0	13	3	9	15	11	2	0	0	53
	1985	0	0	0	0	0	80	304	337	181	8	0	0	910
	1986	0	0	0	0	5	55	169	369	287	32	0	0	917
	1987	0	0	0	0	0	159	194	279	110	29	0	0	771
	1988	0	0	0	0	0	0	158	783	409	49	2	0	1,401
	1989	0	0	0	1	11	66	181	322	132	52	0	0	765
	Mean	0	0	3	1	15	49	130	255	131	18	2	0	604

TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
HA-VIII (4/20)

-Unit : MCM-

Station Particulars		Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station	: Tiga Dam	1960													
River	: Kano	1961													
River Basin	: Hadejia	1962													
HA	: WII	1963													
SHA	: 8041	1964	0	0	0	0	6	15	165	609	531	57	9	2	1,394
Coordinate		1965	1	2	0	0	1	180	143	312	492	22	4	1	1,158
- Lat.	: 11°28'	1966	0	0	0	0	54	59	29	506	729	100	11	3	1,491
- Long.	: 08°24'	1967	1	0	0	0	3	20	111	344	309	53	8	2	851
Catchment Area (km ²)	: 6,553	1968	1	0	0	28	52	73	293	334	135	18	2	0	936
Year Established	: 1963	1969	0	0	0	0	7	65	252	366	361	91	16	3	1,161
		Mean	1	0	0	5	21	69	166	412	426	57	8	2	1,167
		1970	1	0	0	0	18	25	100	586	482	37	8	2	1,259
		1971	0	0	0	4	22	29	96	403	322	23	5	2	906
		1972	1	0	0	0	24	29	50	283	126	171	2	0	686
		1973	0	0	0	0	0	50	119	313	99	9	0	0	590
		1974	0	0	0	13	13	9	152	314	305	65	0	0	871
		1975	0	6	0	21	47	28	158	275	478	49	13	0	1,075
		1976	0	21	13	15	38	95	92	171	159	140	21	0	765
		1977	0	0	15	17	24	48	50	311	450	72	10	0	997
		1978	0	0	0	3	54	88	226	230	259	12	0	0	872
		1979	0	0	0	0	8	54	207	456	338	89	0	0	1,152
		Mean	0	3	3	7	25	46	125	334	302	67	6	0	918
		1980	0	0	0	0	35	27	172	530	156	50	0	0	970
		1981	0	0	0	0	28	6	181	280	225	5	3	3	731
		1982	0	4	0	10	51	35	81	214	156	13	0	0	564
		1983	0	0	7	0	10	66	68	190	107	3	0	0	451
		1984	0	0	0	15	40	35	87	98	77	25	1	0	378
		1985	0	0	10	32	46	49	339	315	184	33	54	0	1,062
		1986													
		1987													
		1988													
		1989													
		Mean	0	1	3	10	35	36	165	271	161	22	10	1	695

TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
HA-VIII (5/20)

-Unit : MCM -

Station Particulars		Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station	: Chiromawa	1960													
River	: Kano	1961													
River Basin	: Hadejia	1962													
HA	: VIII	1963													1,467
SHA	: 8042	1964	0	0	0	0	6	16	174	641	559	60	9	2	1,217
Coordinate		1965	1	2	0	0	1	189	150	328	518	23	4	1	1,569
- Lat.	: 11°43'	1966	0	0	0	0	57	62	30	533	767	105	12	3	895
- Long.	: 08°23'	1967	1	0	0	0	3	21	117	362	325	56	8	2	986
Catchment Area (km ²)	: 6,975	1968	1	0	0	30	55	77	308	352	142	19	2	0	1,221
Year Established	: 1963	1969	0	0	0	0	7	68	265	385	380	96	17	3	1,228
		Mean	1	0	0	5	22	72	174	434	449	60	9	2	1,430
		1970	1	0	0	0	19	26	133	650	560	34	5	2	995
		1971	0	0	0	2	14	17	107	469	361	21	3	1	627
		1972	1	1	1	1	20	29	55	387	111	17	3	1	471
		1973	1	2	2	0	0	25	104	218	107	10	1	1	101
		1974	1	1	3	4	9	12	13	28	14	8	4	4	80
		1975	3	4	4	4	8	6	10	8	12	6	7	8	131
		1976	10	7	12	10	9	11	10	11	9	8	17	17	682
		1977	14	14	19	16	19	20	21	113	311	64	32	39	595
		1978	32	39	49	50	62	62	77	84	67	28	23	22	610
		1979	31	24	26	19	29	51	57	47	176	100	26	24	574
		Mean	9	9	12	11	19	26	59	202	173	30	12	12	831
		1980	32	40	42	45	55	47	*51	*217	127	85	38	52	753
		1981	52	46	55	68	60	62	56	127	123	35	28	41	402
		1982	14	0	0	73	41	74	52	42	22	50	17	17	242
		1983	10	14	17	19	22	23	27	40	22	13	16	19	198
		1984	19	17	20	23	20	15	20	18	12	9	14	11	275
		1985	25	14	17	15	17	35	50	34	13	11	15	29	-
		1986	-	-	-	28	23	34	69	108	96	51	45	51	990
		1987	56	51	51	54	58	78	131	188	89	81	78	75	1,645
		1988	64	35	48	55	49	49	47	236	500	395	128	39	-
		1989	-	49	60	-	-	-	-	-	-	-	-	-	664
		Mean	34	30	34	42	38	46	56	112	112	81	42	37	-

TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
HA-VIII (6/20)

-Unit : MCM-

Station Particulars		Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station	: Wudil	1960													
River	: Hadejia	1961													
River Basin	: K. Yobe	1962													
HA	: VI	1963													
SHA	: 8071	1964	0	0	0	0	0	104	438	1,270	813	62	9	2	2,698
Coordinate		1965	1	0	0	0	0	305	380	871	790	18	3	1	2,369
- Lat.	: 11°49'	1966	0	0	0	0	89	164	49	806	1,066	197	17	4	2,371
- Long.	: 08°50'	1967	0	0	0	0	0	43	346	807	631	119	8	1	1,955
Catchment Area (km ²)	: 16,380	1968	0	0	0	39	102	127	441	465	123	18	2	0	1,317
Year Established	: 1963	1969	0	0	0	1	1	80	437	727	616	66	4	1	1,933
		Mean	0	0	0	7	32	137	349	824	673	77	7	2	2,108
		1970	0	0	0	0	5	23	343	1,029	813	32	8	1	2,254
		1971	0	0	0	0	9	26	196	784	638	33	3	0	1,689
		1972	0	0	0	0	59	127	179	729	192	18	0	0	1,304
		1973	0	0	0	0	0	40	265	450	116	11	0	0	882
		1974	0	0	0	0	24	14	248	512	179	83	2	0	1,062
		1975	0	0	0	0	22	38	308	315	382	9	2	1	1,077
		1976	4	2	3	3	5	76	97	97	98	116	22	21	544
		1977	21	14	28	24	34	129	154	712	697	127	90	92	2,122
		1978	80	76	101	113	182	210	381	414	355	93	72	102	2,179
		1979	107	95	95	73	112	228	356	546	441	204	111	134	2,502
		Mean	21	19	23	21	45	91	253	559	391	73	31	35	1,562
		1980	138	135	147	142	212	218	253	600	215	98	123	167	2,448
		1981	170	159	187	210	295	295	434	370	340	171	135	276	3,042
		1982	412	353	450	500	400	600	629	715	426	237	3	7	4,732
		1983	3	8	11	9	25	25	58	105	57	3	7	7	318
		1984	22	22	22	26	62	36	64	92	60	19	8	5	438
		1985	18	15	13	11	11	98	257	225	133	5	4	9	799
		1986	42	36	35	16	8	48	139	291	143	56	36	36	886
		1987	44	31	31	34	42	113	137	263	100	64	57	55	971
		1988	42	40	36	37	27	82	126	345	287	149	67	28	1,266
		1989	23	24	-	-	-	-	-	-	-	-	-	-	-
		Mean	91	82	104	109	120	168	233	334	196	89	49	66	1,641

TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
HA-VIII (7/20)

-Unit : MCM-

Station Particulars		Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station	: Chai Chai	1960													
River	: Gaya	1961													
River Basin	: Hadejia	1962													
HA	: VIII	1963													
SHA	: 8072	1964	0	0	0	0	0	*6	11	78	91	9	1	0	196
Coordinate		1965	0	0	0	0	0	3	8	38	45	3	1	0	98
- Lat.	: 12°01'	1966	0	0	0	0	0	2	1	16	21	7	0	0	47
- Long.	: 09°15'	1967	0	0	0	0	0	0	44	18	15	11	1	0	89
Catchment Area (km ²)	: 1,710	1968	0	0	0	0	0	9	45	19	28	5	1	0	107
Year Established	: 1963	1969	0	0	0	0	0	1	12	19	17	1	0	0	50
		Mean	0	0	0	0	0	4	20	31	36	6	1	0	98
		1970	0	0	0	0	0	0	6	36	66	3	0	0	111
		1971	0	0	0	0	0	0	6	20	30	2	0	0	58
		1972	0	0	0	0	0	1	3	41	22	2	0	0	69
		1973	0	0	0	0	0	0	4	24	2	0	0	0	30
		1974	0	0	0	0	0	1	8	18	19	5	0	0	51
		1975	0	0	0	0	0	0	4	24	*4	2	0	0	34
		1976	0	0	0	0	0	0	9	14	*12	*8	1	0	44
		1977	0	0	0	0	0	0	1	20	33	2	0	0	56
		1978	0	0	0	0	0	3	9	23	19	0	0	0	54
		1979	0	0	0	0	0	*2	*10	*23	*25	*4	0	0	64
		Mean	0	0	0	0	0	1	6	24	23	3	0	0	57
		1980	0	0	0	0	0	7	8	25	16	0	0	0	56
		1981	0	0	0	0	1	2	7	11	13	0	0	0	34
		1982	0	0	0	0	0	0	0	7	*15	0	0	0	22
		1983	0	0	0	0	0	0	2	7	9	0	0	0	18
		1984	0	0	0	0	0	2	5	7	*4	0	0	0	18
		1985	0	0	0	0	0	7	31	14	20	18	5	0	95
		1986	0	0	0	0	0	0	16	18	23	10	0	0	67
		1987	0	0	0	0	0	8	20	7	0	0	0	0	35
		1988	0	0	0	-	-	-	-	-	-	-	-	-	-
		1989	-	-	-	-	-	-	-	-	-	-	-	-	-
		Mean	0	0	0	0	0	3	11	12	13	4	1	0	44

TABLE 6. MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
HA-VIII (8/20)

-Unit : MCM-

Station Particulars		Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station	: Hadejia	1960													
River	: Hadejia	1961													
River Basin	: K. Yobe	1962													
HA	: VIII	1964													
SHIA	: 8073	1965													
Coordinate		1966	-	-	-	0	0	107	54	143	239	212	29	8	-
- Lat.	: 12°26'	1967	3	1	0	0	0	0	90	179	251	152	15	4	695
- Long.	: 10°04'	1968	1	1	-	-	-	-	-	-	-	-	-	-	-
Catchment Area (km ²)	: 25,900	1969	-	-	-	1	7	37	147	222	254	172	29	6	-
Year Established	: 1963	Mean													
		1970	2	1	0	0	0	23	88	230	278	142	15	5	784
		1971	2	1	0	0	0	13	75	169	272	133	10	3	678
		1972	1	0	0	0	7	54	73	136	198	32	4	2	508
		1973	1	0	0	0	0	1	97	190	129	29	5	4	456
		1974	1	0	0	0	1	2	136	305	339	121	7	2	914
		1975	1	0	0	0	5	27	99	189	332	93	10	1	757
		1976	2	1	0	0	0	17	104	185	64	35	11	0	419
		1977	0	0	0	0	0	48	78	156	354	102	20	32	790
		1978	23	22	22	19	38	127	183	272	272	178	23	20	1,199
		1979	25	19	17	8	10	88	164	246	286	54	11	22	950
		Mean	6	4	4	3	6	40	110	208	252	92	12	9	746
		1980	22	24	20	23	50	114	106	216	244	81	23	40	963
		1981	39	31	34	47	95	87	178	264	269	67	46	28	1,185
		1982	0	32	36	72	33	109	185	198	194	67	7	13	985
		1983	5	10	11	8	14	55	157	231	214	15	14	17	751
		1984	18	20	12	17	62	61	88	140	83	36	4	3	544
		1985	3	1	0	7	2	60	232	292	232	14	4	1	848
		1986	11	7	4	2	0	17	105	261	262	120	22	19	830
		1987	0	0	0	7	5	49	80	152	354	192	34	36	909
		1988	37	25	1	3	1	10	137	271	363	279	80	27	1,234
		1989	8	10	8	12	27	55	169	282	306	220	35	24	1,156
		Mean	14	16	13	20	29	62	144	231	252	109	27	21	938

TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
HA-VIII (9/20)

-Unit : MCM-

Station Particulars	Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station : Bunga Bridge	1960													
River : Jama' are	1961													
River Basin : K. Yobe	1962													
HA : VIII	1963													
SHIA : 8052	1964	0	0	0	0	0	147	343	1,429	1,079	71	10	1	3,080
Coordinate	1965	0	0	0	2	6	130	196	610	687	25	3	1	1,660
- Lat. : 10°56'	1966	1	0	0	7	76	168	137	822	1,232	99	10	3	2,555
- Long. : 09°39'	1967	1	0	0	0	2	32	233	811	728	51	7	2	1,867
Catchment Area (km ²) : 7,380	1968	1	1	0	11	97	279	583	759	253	30	1	1	2,016
Year Established : 1963	1969	1	1	1	7	10	34	423	771	961	189	21	5	2,424
	Mean	1	0	0	5	32	132	319	867	823	78	9	2	2,268
	1970	1	0	1	1	10	26	163	939	786	41	5	1	1,974
	1971	0	0	0	2	34	52	300	1,670	763	32	4	1	2,858
	1972	0	0	0	2	25	50	148	508	242	32	3	1	1,011
	1973	0	0	0	0	11	27	215	746	152	12	0	0	1,163
	1974	0	0	0	0	101	34	177	1,017	842	124	11	1	2,307
	1975	1	0	0	0	20	20	245	761	1,221	73	7	5	2,353
	1976	1	0	0	1	28	61	333	475	415	92	17	11	1,434
	1977	2	0	0	0	0	25	137	1,021	718	34	4	1	1,942
	1978	0	0	0	7	74	112	313	643	403	29	0	0	1,581
	1979	0	0	0	0	23	51	373	719	519	75	6	1	1,767
	Mean	0	0	0	1	24	46	240	850	606	54	6	2	1,829
	1980	0	0	0	0	36	59	483	934	236	35	4	1	1,788
	1981	0	0	0	0	57	59	544	468	481	36	3	1	1,649
	1982	0	0	0	1	21	55	200	733	289	61	4	1	1,365
	1983	0	0	0	1	7	49	169	389	246	24	1	0	886
	1984	0	0	0	0	18	49	101	167	102	15	1	0	453
	1985	0	0	0	0	12	85	266	299	290	18	1	0	971
	1986	0	0	0	0	9	71	46	59	33	49	3	1	271
	1987	0	0	0	0	5	44	522	549	570	36	2	1	1,729
	1988	0	1	0	7	7	47	173	1,262	695	70	4	1	2,267
	1989	0	1	0	-	-	-	-	-	-	-	-	-	-
	Mean	0	0	0	1	19	58	278	540	327	38	3	1	1,265

**TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
HA-VIII (10/20)**

-Unit : MCM-

Station Particulars		Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station	: Foggo	1960													
River	: Jama'are	1961													
River Basin	: K. Yobe	1962													
HIA	: VIII	1963													
SHA	: 8052	1964	0	0	0	0	0	161	404	1,995	1,412	96	15	3	4,086
Coordinate		1965	2	1	0	0	0	145	196	823	797	417	3	1	2,385
- Lat.	: 11°25'	1966	0	0	0	0	59	188	178	838	1,464	166	25	6	2,924
- Long.	: 09°55'	1967	2	0	0	0	0	32	189	803	818	92	10	2	1,948
Catchment Area (km ²)	: 9,660	1968	0	0	0	0	93	255	579	837	327	54	6	0	2,151
Year Established	: 1962	1969	0	0	0	0	9	54	430	940	1,100	336	47	9	2,925
		Mean	1	0	0	0	27	139	329	1,039	986	194	18	4	2,737
		1970	3	1	0	0	5	52	261	1,342	1,048	92	7	3	2,814
		1971	1	0	0	0	19	61	268	1,127	817	104	15	4	2,416
		1972	1	0	0	0	0	18	142	633	367	44	17	4	1,226
		1973	0	0	0	0	6	47	276	1,002	205	23	5	4	1,568
		1974	0	0	0	0	85	49	255	866	483	196	10	2	1,946
		1975	0	0	0	0	12	31	254	780	1,140	116	7	2	2,342
		1976	0	0	0	0	19	17	197	288	329	72	12	1	935
		1977	0	0	0	0	0	27	102	867	502	38	5	1	1,542
		1978	0	0	0	-	-	-	-	-	-	-	-	-	-
		1979	-	-	-	-	-	-	-	-	-	-	-	-	-
		Mean	0	0	0	0	18	38	219	863	611	86	10	3	1,848
		1980													
		1981	0	0	0	0	43	51	512	443	380	70	0	2	1,501
		1982													
		1983													
		1984													
		1985													
		1986													
		1987													
		1988													
		1989													
		Mean													

**TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
HA-VIII (11/20)**

-Unit : MCM-

Station Particulars		Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station	: Birnin Kudu	1960													
River	: Dogwala	1961													
River Basin	: Jama'are	1962													
HA	: VIII	1963													
SHA	: 8060	1964	0	0	0	0	0	0	17.7	178.1	149.4	5.6	0.5	0	351
Coordinate		1965	0	0	0	0	0	0	8.9	59.4	76.0	3.8	0	0	148
- Lat.	: 11°26'	1966	0	0	0	0	0	0	0.4	10.9	44.0	7.0	0	0	62
- Long.	: 09°35'	1967	0	0	0	0	0	0	3.5	20.5	21.6	3.8	0	0	49
Catchment Area (km ²)	: 1,891	1968													
Year Established	: 1963	1969													
		Mean													
		1970													
		1971	0	0	0	0	0	0	7.5	57.6	58.2	2.1	0	0	125
		1972	0	0	0	0	0.1	1.2	1.4	52.7	27.2	0.3	0	0	83
		1973													
		1974													
		1975													
		1976													
		1977	0	0	0	0.2	0.3	3.7	13.3	23.7	17.5	3.2	0	0	62
		1978													
		1979													
		Mean													
		1980													
		1981	0	0	0	0	0.8	2.6	18.5	27.9	21.0	6.2	0	0	77
		1982	0	0	0	0	0	3.1	9.4	14.5	13.5	3.5	0	0	44
		1983	0	0	0	0	0	1.8	2.7	20.6	12.2	1.6	0	0	39
		1984													
		1985													
		1986													
		1987													
		1988													
		1989													
		Mean													

**TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
HA-VIII (12/20)**

-Unit : MCM -

Station Particulars		Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station	: Iggi Bridge	1960													
River	: Iggi	1961													
River Basin	: Jama'are	1962													
HA	: VIII	1963													
SHA	: 8060	1964	0	0	0	0	0	0	32.8	193.6	155.0	10.1	1.0	0.3	393
Coordinate		1965	0	0	0	0	0	10.4	16.1	81.4	11.6	5.3	1.0	0.4	126
- Lat.	: 11°32'	1966	0.2	0.2	0	0	0	7.3	1.4	15.8	70.8	14.4	0.7	0	111
- Long.	: 09°20'	1967	0	0	0	0	0	0	2.2	30.1	52.9	8.2	0.5	0	94
Catchment Area (km ²)	: 1,334	1968													
Year Established	: 1963	1969													
		Mean													
		1970													
		1971	0	0	0	0	0	0	15.3	49.3	36.3	2.9	1.0	0.8	106
		1972	0.3	0	0	0	0.5	1.3	4.8	114.4	35.7	3.2	0.5	2.9	164
		1973	0.5	0	0	0	0	0	9.4	69.9	17.1	1.3	1.0	0.8	100
		1974	0	0	0	0	9.1	6.2	9.9	40.2	19.2	6.2	4.7	4.6	100
		1975	0	0	0	0	0	0.5	12.3	48.2	108.3	4.6	0.3	0.3	175
		1976	0.4	0.3	0.3	0	-	-	-	-	-	-	-	-	-
		1977	0	0	0	0	0.3	3.9	18.5	101.8	56.5	5.6	0.8	0	187
		1978	-	-	-	-	-	-	-	-	-	-	-	-	-
		1979	-	-	-	-	-	-	-	-	-	-	-	-	-
		Mean	0.2	0	0	0	1.7	2.0	11.7	70.6	45.5	4.0	1.4	1.6	139
		1980	0	0	0	0	0.3	8.8	32.2	140.4	52.6	5.6	1.0	0	241
		1981	0	0	0	0	7.0	6.7	32.4	50.7	33.7	4.0	0.3	0	135
		1982	0	0	0	0	0	5.4	7.8	21.4	40.9	2.7	0.3	0.3	79
		1983	0.3	0	0	0	0	7.0	8.3	44.5	26.2	3.8	2.8	2.4	95
		1984													
		1985													
		1986													
		1987													
		1988													
		1989													
		Mean	0.1	0	0	0	1.8	7.0	20.2	64.3	38.4	4.0	1.1	0.7	138

TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
HA-VIII (13/20)

-Unit : MCM-

Station Particulars	Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station : Gashua	1960													
River : Yobe	1961													
River Basin : K. Yobe	1962						0	87	232	310	378	208	38	
HIA : VIII	1963						11	93	237	438	948	559	128	2,425
SHA : 8092	1964	8	2	1	0	0	8	155	240	325	396	214	69	1,449
Coordinate	1965	28	7	4	2	1	101	127	206	304	462	331	117	1,667
- Lat. : 12°52'	1966	12	4	2	1	0	0	60	224	319	420	156	42	1,258
- Long. : 11°04'	1967	26	6	3	1	1	107	238	311	343	268	37	7	1,323
Catchment	1968	7	3	1	0	0	0	98	290	334	373	275	73	1,446
Area (km ²) : 55,700	1969	2	1	0	0	0	32	123	249	339	464	254	68	1,551
Year Established : 1962	Mean	14	4	2	1	1	1	86	277	345	414	328	89	1,561
	1970	12	5	2	1	1	7	73	211	381	474	116	3	1,288
	1971	14	7	2	0	0	11	62	190	296	185	19	3	771
	1972	4	1	0	0	0	0	32	205	301	89	6	8	642
	1973	1	0	0	0	0	1	76	187	289	424	102	8	1,091
	1974	0	0	0	0	4	0	24	192	338	461	111	9	1,137
	1975	2	0	0	0	0	1	86	210	242	169	49	3	766
	1976	3	0	1	1	1	0	50	177	252	255	43	8	788
	1977	2	1	0	0	0	41	141	245	258	215	46	8	979
	1978	6	4	3	3	9	8	101	216	254	267	43	22	926
	1979	5	4	3	2	1	7	73	211	296	295	86	16	995
	Mean	5	2	1	1	2	21	104	226	270	181	22	6	845
	1980	5	4	3	2	1	9	128	243	263	190	18	7	872
	1981	5	4	3	1	1	2	81	162	219	167	15	4	667
	1982	5	4	3	2	3	0	30	159	197	77	4	1	469
	1983	0	1	0	0	0	0	85	147	120	27	2	0	381
	1984	0	0	0	0	0	11	16	225	238	100	8	1	599
	1985	0	0	0	0	0	0	170	359	419	318	18	5	1,289
	1986	0	0	0	0	0	11	63	138	193	46	5	2	464
	1987	3	2	1	0	0	2	67	321	470	444	48	8	1,360
	1988	0	0	0	0	0	3	126	293	407	326	7	6	1,173
	1989	2	1	1	1	0	6	87	227	280	188	15	4	814
	Mean	2	2	1	1	1								

TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
HA-VIII (14/20)

-Unit : MCM -

Station Particulars	Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station : Geidam	1960													
River : Yobe	1961													
River Basin : K. Yobe	1962													
HA : VIII	1963	-	-	-	0	0	0	16	82	129	169	186	120	-
SHA : 8081	1964	8	1	0	1	0	0	48	117	174	227	330	281	1,187
Coordinate	1965	130	17	7	4	2	2	54	129	166	198	219	175	1,103
- Lat. : 12°05'	1966	27	6	3	2	1	16	94	113	143	182	210	223	1,020
- Long. : 11°55'	1967	62	13	6	3	1	0	12	96	152	194	218	109	866
Catchment Area (km ²) : 58,500	1968	19	7	4	1	0	32	108	174	173	207	150	20	895
Year Established : 1963	1969	7	3	1	0	0	0	163	207	164	205	234	202	1,186
	Mean	42	8	4	2	1	7	71	131	157	197	221	161	1,002
	1970	28	9	11	0	0	0	12	111	165	219	252	265	1,072
	1971	45	13	3	0	0	1	31	117	163	208	233	106	920
	1972	19	5	0	0	0	2	36	99	142	173	92	12	580
	1973	-	-	-	0	0	0	3	72	151	182	26	5	-
	1974	1	0	0	0	0	0	25	112	158	192	219	50	757
	1975	0	0	0	0	0	0	0	25	97	149	185	35	491
	1976	3	1	0	0	0	0	16	93	164	209	116	13	615
	1977	6	3	2	0	0	0	5	33	36	71	49	7	212
	1978	4	2	0	-	-	-	-	-	-	-	-	-	-
	1979	-	-	-	0	0	0	22	129	192	244	243	23	-
	Mean	13	4	2	0	0	0	17	88	141	183	157	57	662
	1980	8	6	7	6	0	7	47	136	193	243	133	10	796
	1981	7	6	7	5	0	7	51	110	198	238	118	13	760
	1982	8	7	7	3	0	0	25	98	166	199	83	8	604
	1983	6	0	0	0	0	0	9	66	176	189	11	7	464
	1984	0	0	0	0	0	0	11	93	116	41	5	0	266
	1985	0	0	0	0	0	0	46	160	227	228	13	7	681
	1986	0	0	0	-	-	-	-	-	-	-	-	-	-
	1987													
	1988													
	1989													
	Mean	4	3	3	2	0	2	32	111	179	190	61	8	595

TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
HA-VIII (15/20)

-Unit : MCM -

Station Particulars	Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station : Kari	1960													
River : Misau	1961													
River Basin : K. Yobe	1962													
HA : VIII	1963													
SHA : 8102	1964	0	0	0	0	0	0	61	979	442	52	20	3	1,557
Coordinate	1965	0	0	0	0	0	22	19	138	182	8	1	0	370
- Lat. : 11°15'	1966	0	0	0	0	0	11	11	51	158	26	2	0	259
- Long. : 10°33'	1967	0	0	0	0	0	0	8	295	257	12	1	0	573
Catchment	1968	0	0	0	0	0	26	69	162	66	12	0	0	335
Area (km ²) : 5,865	1969	0	0	0	0	0	3	93	187	325	56	6	0	670
Year Established : 1963	Mean	0	0	0	0	0	10	44	302	238	28	5	1	628
	1970	0	0	0	0	0	0	49.8	334.2	450.4	42.1	4.9	0	881
	1971	0	0	0	0	0	0	35.1	232.1	168.9	8.0	0	0	444
	1972	0	0	0	0	0	10.9	30.0	54.9	19.9	0.8	0	0	117
	1973	0	0	0	0	0	0	5.9	68.1	108.0	26.0	0.8	0	209
	1974	0	0	0	0	4.0	3.9	68.1	295.1	162.7	22.8	0	0	557
	1975	0	0	0	0	0	0	61.1	129.2	429.4	15.8	0.8	0	636
	1976	0	0	0	0	0	0	4.8	45.0	53.9	2.9	0	2.9	110
	1977	0	0	0	0	0	0.8	46.9	293.2	205.9	3.8	0	0	551
	1978	0	0	0	0	0	8.8	33.8	79.0	49.0	1.9	0	0	173
	1979	0	0	0	0	0	2.1	12.1	50.9	65.0	13.9	0	0.8	145
	Mean	0	0	0	0	0.4	2.7	34.8	158.2	171.3	13.8	0.7	0.4	382
	1980	0	0	0	0	0	0.8	56.0	76.9	8.8	1.9	0	0	144
	1981	0	0	0	0	0	7.8	52.0	38.1	55.9	0	0	0	154
	1982	0	0	0	0	0	2.8	2.9	167.0	28.0	0.8	0	0	202
	1983	0	0	0	0	0	0	7.0	24.9	8.8	0.8	0	0	42
	1984	0	0	0	0	0	0	23.6	35.4	10.4	8.6	0	0	78
	1985	0	0	0	0	0	89.9	105.1	34.0	37.8	1.9	0	0	269
	1986	0	0	0	0	3.6	29.2	86.9	67.8	71.1	12.5	0	0	271
	1987	0	0	0	0	0	43.8	118.5	36.6	41.4	3.3	0	0	244
	1988	0	0	0	0	0	6.8	67.5	105.2	25.9	0.5	0	0	206
	1989	0	0	0	-	-	-	-	-	-	-	-	-	-
	Mean	0	0	0	0	0.4	20.1	57.7	65.1	32.0	3.4	0	0	179

TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
HA-VIII (16/20)

-Unit : MCM-

Station Particulars	Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station : Dapchi	1960													
River : Misau	1961													
River Basin : K. Yobe	1962													
HA : VIII	1963													
SHA : 8102	1964													
Coordinate	1965													
- Lat. : 12°30'	1966													
- Long. : 11°30'	1967													
Catchment Area (km ²) : 18,090	1968	-	-	-	-	-	-	0.5	12.1	23.3	35.2	25.0	2.8	-
Year Established : 1963	1969	0.1	-	-	-	-	-	-	1.8	26.1	45.1	56.5	10.8	-
	Mean													
	1970	2.3	0	0	0	0	0	0	8.9	53.1	132.9	72.1	5.9	275
	1971	2.3	0.2	0	0	0	0	0	5.4	29.7	50.3	14.5	1.5	104
	1972	-	-	-	0	0	0	0	1.4	17.7	8.6	-	-	-
	1973	-	-	-	0	0	0	0	7.7	32.7	30.3	26.7	12.5	-
	1974	3.8	0	0	0	0	0	0	20.7	35.4	63.4	9.7	1.5	135
	1975	0.6	0.1	0	0	0	0	0	7.5	27.4	37.5	18.9	7.9	100
	1976	0.5	0	0	0	0	0	0	0	13.5	19.9	7.5	3.7	45
	1977	4.9	1.9	10.1	0	0	0	0	11.2	44.0	59.1	15.5	8.2	155
	1978	4.3	1.0	0	0	0	0	2.6	30.0	35.7	40.0	9.8	9.2	133
	1979	-	-	-	-	-	-	-	-	-	-	-	-	-
	Mean	2.7	0.5	1.4	0	0	0	0.3	10.3	32.1	49.1	21.8	6.3	125

TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
HA-VIII (17/20)

-Unit : MCM -

Station Particulars		Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station	: Damasak	1960													
River	: K. Yobe	1961													
River Basin	: Lake Chad	1962													
HA	: VIII	1963	-	-	-	-	-	-	17	66	98	123	133	136	-
SIA	: 8110	1964	26	8	0	0	0	0	0	70	103	119	147	176	649
Coordinate		1965	146	27	9	4	0	0	28	86	110	125	129	144	808
- Lat.	: 13°28'	1966	44	9	5	3	1	0	69	87	97	115	122	137	689
- Long.	: 12°31'	1967	81	8	31	0	0	0	0	60	99	121	127	141	668
Catchment Area (km ²)	: 82,560	1968	45	5	-	-	-	-	54	100	113	129	131	23	-
Year Established	: 1959	1969	5	0	-	-	-	-	3	60	98	122	130	137	-
		Mean	58	10	11	2	0	0	24	76	103	122	131	128	665
		1970	57	19	13	7	3	1	1	60	83	109	124	161	638
		1971	77	15	8	3	0	0	2	43	72	89	99	78	486
		1972	3	0	0	0	0	0	4	36	65	82	62	2	254
		1973	-	-	-	-	-	-	-	24	60	78	27	1	-
		1974	-	-	-	-	-	-	3	44	73	94	112	65	-
		1975	21	13	9	5	0	0	0	63	133	188	228	109	769
		1976	6	0	0	5	0	0	8	106	107	201	190	15	638
		1977	56	42	0	0	0	0	1	39	129	150	45	47	509
		1978	17	13	12	0	0	0	3	22	128	160	362	107	824
		1979	-	-	-	-	-	-	-	-	-	-	-	-	-
		Mean	34	15	6	3	0	0	3	49	94	128	139	65	536

TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
HA-VIII (18/20)

-Unit : MCM -

Station Particulars	Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station : Yau	1960													
River : K. Yobe	1961													
River Basin : Lake Chad	1962													
HA : VII	1964													
SHA : 8110	1965													
Coordinate	1966													
- Lat. : 13°34'	1967													
- Long. : 13°15'	1968				4.2	4.2	4.3	18.0	34.0	50.7	60.0	62.4		
Catchment Area (km ²) : 84,140	1969													
Year Established : 1959	Mean													
	1970	-	-	-	0	0	0	0	24.0	46.4	58.0	67.4	74.0	-
	1971	71.0	11.9	2.0	0	0	0	3.0	34.0	52.4	64.0	81.6	98.0	418
	1972	42.8	0.8	0	0	0	0	4.8	33.8	50.8	59.6	64.9	18.6	276
	1973	13.4	-	-	-	-	-	-	16.4	56.6	79.1	51.2	-	-
	1974	-	-	-	-	-	-	-	28.5	41.6	49.8	61.5	60.4	-
	1975	8.2	3.2	-	-	-	-	-	-	-	-	-	-	-
	1976	1.3	0	0	0	0	0	0	26.2	47.7	65.1	76.3	31.1	248
	1977	1.8	0	0	0	0	0	0	0	110.0	59.7	46.0	25.5	243
	1978	0	0	0	0	0	0	47.7	48.0	68.2	32.4	82.9	49.1	328
	1979	-	-	-	-	-	-	-	-	-	-	-	-	-
	Mean	20	3	0	0	0	0	9	26	59	58	66	51	292

**TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
HA-VIII (19/20)**

-Unit : MCM-

Station Particulars		Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station	: Gaboru Bridge	1960													
River	: Ebeji	1961													
River Basin	: Lake Chad	1962													
HIA	: VIII	1963													
SHA	: 8110	1964													
Coordinate		1965													
- Lat.	: 12°22'	1966													
- Long.	: 14°12'	1967				1	0	0	0	-	-	-	97	244	-
Catchment Area (km ²)	: 16,220	1968				0	0	0	0	9	9	17	312	694	1,186
Year Established	: 1962	1969	136	9	0	0	0	0	0	9	9	17	312	694	1,186
		Mean													
		1970	278	57	4	0	0	0	0	0	98	191	1,015	596	2,239
		1971	235	42	4	0	0	0	0	17	13	25	71	261	668
		1972	68	8	2	0	0	0	0	4	3	-	-	-	-
		1973	-	-	-	-	-	-	1	11	2	1	-	-	-
		1974	-	-	-	-	-	-	11	42	15	6	60	99	-
		1975	223	2	6	0	0	0	1	8	55	59	84	74	512
		1976	114	8	2	0	0	0	0	1	10	-	117	341	-
		1977	-	-	-	-	-	-	-	28	30	-	-	-	-
		1978	113	7	0	0	0	0	21	158	37	5	120	312	773
		1979	-	-	-	-	-	-	-	-	-	-	-	-	-
		Mean	172	21	3	0	0	0	4	30	29	48	245	281	833

TABLE 6 MONTHLY RUNOFF AT SELECTED RIVER GAGING STATIONS
HA-VIII (20/20)

-Unit : MCM-

Station Particulars		Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Station	: Bama Bridge	1970													
River	: Yedseram	1971													
River Basin	: Lake Chad	1972													
IIA	: VII	1973													
SHA	: 8142	1974													
Coordinate		1975													
- Lat.	: 11°32'	1976	0	0	0	0	0	0	12.3	34.6	40.1	26.5	13.7	0.8	128
- Long.	: 13°41'	1977	0	0	0	0	0	0	4.8	196.7	36.3	32.7	5.2	0.8	277
Catchment Area (km ²)	: -	1978	0	0	0	0	1.5	3.1	15.3	133.5	149.7	11.5	6.2	0.5	321
Year Established	: -	1979													
		Mean													
		1980													
		1981	0	0	0	0	0	0	22.2	38.3	70.7	4.3	0.3	0.3	136
		1982	0	0	0	0	0	0	7.2	71.8	68.4	1.1	6.7	0	155
		1983	0	0	0	0	0	0	1.1	4.0	11.9	5.9	1.0	0	24
		1984	0	0	0	0	0	0	17.7	5.6	4.1	4.6	0.5	0	33
		1985	0	0	0	0	0	1.3	10.1	34.0	35.7	4.0	1.0	0	86
		1986	0	0	0	0	0	0.5	7.2	12.3	38.3	52.0	4.1	0.5	115
		1987	0	0	0	0	0	-	-	-	-	-	-	-	-
		1988	0	0	0	0	0	0	6.7	90.6	118.6	33.2	3.1	1.3	254
		1989	-	-	-	-	-	-	-	-	-	-	-	-	-
		Mean	0	0	0	0	0	0.3	10.3	36.7	49.7	15.0	2.4	0.3	115