HY2 River Flow for 25 Dams

River Flow Data for 25 Dams

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PRINCIPAL FEATURES OF FLOW GAUGING STATIONS OF DGH (1/6)

Station/Province	River	Code	Coordinates			Basin	Start	Type
		No.	X	Y	Z	(km^2)	(mon/yr)	
(BASINS: TANGEROIS AND MEDITERRANEAN COAST)								
(TETOUAN)								
AMAZZAL	CHEKKOUR	900 / 02	492.900	549.500	20	128	05/1978	P
BEN KARRICH	HAJRA	166 / 02	495.650	545.600	18	400	09/1948	P
PONT TORRETA	MARTIL	167 / 02	502.300	550.850	3	1073	09/1944	P
ASMIR	ASMIR	168 / 02	503.000	566.800	9	75.3	09/1967	S
AMSA	AMASSA	169 / 02	515.160	547.200	5	110	03/1967	P
JEBL TIMEZZOK	NAKHLA	722 / 04	502.700	533.500	275	48	05/1978	P
CHIBICH	EL KERIR	723 / 04	495.900	537.300	117	220	06/1978	P
(LARRACHE)								
SIDI AYAD SOUSI		219 / 03	454.850	504.700	8	633.7	09/1961	P
OUELD JOUABER		220 / 03	453.950	496.350	9	190.8	09/1961	P
SAHEL		280 / 03	477.000	496.600	73	166.6	11/1975	P
DAR KHROFA		1373 / 03	464.250	514.650	70	441	10/1975	P
MERISA		221/03			2.5	2166	1961	S
(CHEFCHAOUEN)								
RAS EL MA	SOURCE	100 / 04	513.100	507.800	700		02/1976	SE
MAGOU	SOURCE	241 / 04						SE
KOUDIAT KOURIRENE	LAOU	210 / 04	520.050	528.950	30	748	06/1944	P
PONT DE M'GHAR	M'GHAR	214 / 04	489.510	487.550	98	86	06/1961	P
BOUFARRAH	LOUKKOS	215 / 04	492.200	442.800	105	266	06/1967	P
PONT D'OUGHANE	OUGHANE	295 / 04	487.000	485.600	93	301	06/1966	P
M'DOUAR	LOUKKOS	612 / 04	490.100	489.250	85	667	04/1967	P
OURINGA	OURINGA	872 / 04	563.450	507.405	40	455	1993	P
(TANGER)								
KALAYA	TAIFINE	476 / 01	468.400	563.350	30	38.3	11/1967	P
JBEL LAHBIB	KHAROUB	573 / 01	462.050	540.150	20	233.2	12/1970	P
KANNOUAA	KHOBZ	630 / 01	459.380	547.320	6	222	09/1971	P
ARBAA AYACHA	AYACHA	947 / 03	455.830	532.380	40	95	09/1978	P
DAR CHAOUI	HARRICHA	882 / 01	471.075	547.450	48	117	01/1991	S
(BASINS: MOULOUYA, NEKKOR, RHISS, KERT AND ISLY)								
(OUJDA)								
SAF SAF	MOULOUYA	3/6	753.330	482.750	55	52580	11/1968	P
BERKANE	ZEGZEL	1433/12	779.050	480.250	200	127	07/1968	P
GUENFOUDA	ISLY	1310/12	807.730	439.020	770	728	10/1954	P
A BENI MATHAR	ELHAY	71/18	809.200	391.300	910	10044	04/1969	P
GUEFAIT	EL HAY							P
(TAZA)								
TAOURIRT	ZA	91/11	731.320	427.400	365	18026	03/1959	S
EL GHORESS	ZA	226/17	775.150	403.640	620	17398	07/1969	P
OULAD LAFKIR	ZA	703/11	718.950	438.750	315	18322	12/1977	P
MELG.EL OUIDANE	MOULOUYA	89/11	716.800	442.500	230	48000	12/1963	P
PONT DE SAKKA	M'SOUN	302/17	695.000	413.600	340		06/1974	P
DAR EL CAID	MOULOUYA	182/17	691.500	406.700	326	24422	08/1954	P
MELLOULOU.GUERCIF	MELLOULOU	184/17	687.950	403.860	360	2489	06/1954	P
BEL FARAH	MELLOULOU	261/16	657.000	390.800	600	2086	06/1961	P
BERKINE	EL MANSOUR	467/23	647.900	354.900	1000		11/1989	P
(AL HOCEIMA)								
TAMALLAHT	NEKKOR	269/5	445.300	488.200	275	685	06/1965	P
TAKENFOUST	NEKKOR	386/10	636.440	478.240	500	292	04/1978	S
TIGHZA	SI AISSA	385/10	645.200	475.500	600	55	04/1987	S
AJDIR	BRART	384/10	630.550	460.850	1020	40	09/1978	S
TAMASSINT	RHISS	554/5	626.550	495.650	220	665	06/1971	P
TARGUIST	RHISS	302/10	605.800	477.500	810	182	06/1965	P
BENI BOU FRAH	BENI BOU FRAH		579.9	305.8	56	160	1994	S

PRINCIPAL FEATURES OF FLOW GAUGING STATIONS OF DGH (2/6)

Station/Province	River	Code No.	Coordinates X	Y	Z	Basin (km^2)	Start (mon/yr)	Type
(NADOR)								
DAR DRIOUCH	KERT	1447/6	684.000	478.450	273	1353	10/1967	P
TLETA AZLEF	KERT	114/10	658.400	477.600	610	205	01/1967	P
(BOULMANE)								
TANDITE	MOULOUYA	439/23	667.775	341.675	625	17440	12/1972	P
OUTAT EL HADJ	MOULOUYA	226/23	657.900	304.900	750	15957	06/1969	P
MISSOUR	MOULOUYA	45/31	632.650	273.630	875	10323	01/1959	P
LAARICHATE	MOULOUYA	75/31	610.650	255.750	1060	7893	09/1975	P
KSIBATE	CHEG EL ARD	440/23	645.720	307.850	950	251	01/1975	P
EL AOUIA	ANJIL	806/30	567.100	294.950	1790	126	11/1975	P
(KHENIFRA)								
ANSEGMIR	ANSEGMIR	658/38	545.900	238.900	1450	960	02/1960	P
TABOUAZANT	ANSEGMIR	732/38	531.150	217.450	1640	630	11/1977	S
ZAIDA	MOULOUYA	318/30	541.000	246.800	1450	1673	03/1959	P
ANZAR OUFOUNES	SOURCE	8/38	522.850	20.400	1855		08/1989	SE (S)
LOUGGAGH	TAARTE	656/38					11/1966	P
(BOUARFA)								
TZADERT	SOURCE	102/50	892.835	176.210	895		08/1991	SE (S)
(BASIN: SEBOU)								
(FES)								
PONT DU MDEZ	MDEZ	582/22	581.400	341.900	725	3435	1955	P
AIN TIMEDRINE	SEBOU	581/22	587.900	350.000	645	4387	1933	P
AZZABA	SEBOU	583/22	569.650	359.575	478	4640	1957	P
AIN OUALI	LYHOUDI	2210/15	555.650	377.000	245	408	1966	P
DAR EL ARSA	SEBOU	2263/15	543.300	399.700	170	7620	1966	P
PONT RP 26	SEBOU	1541/15	523.250	412.150	85		1951	S
AIN SEBOU	SOURCE	574/22	580.300	349.100	625		1951	SE (S)
A.TIMEDRINE DEVR	SOURCE	573/22	578.700	350.350	650		1951	SE (S)
A.OUAMENDER DEVR	SOURCE	615/22	580.000	349.500	650		1951	SE
(MEKNES)								
EL HAJRA	MIKKES	2244/15	508.860	382.760	215	1310	1968	P
A.BITTIT DEVR 3m	SOURCE	106/22	519.658	355.002	760		1942	SE (S)
A.ATTROUSS DEVR	SOURCE	110/22	516.350	351.280	880		1920	SE
A.RIBAA AMT DEVR	SOURCE	853/22	515.550	351.190	871		1974	SE
A.RIBAA AVL AEP	SOURCE	854/22	515.450	351.100	871		1974	SE
A.AGUEMGAM DEVR	SOURCE	857/22	518.925	350.375	902		1937	SE (S)
A.MAAROUF DEVR	SOURCE	124/22	491.500	342.250	752		1937	SE (S)
A.BOUJAOUI DEVR	SOURCE	126/22	489.850	343.660	755		1937	SE
(TAOUNATE)								
MJARA	OUARGHA	609/9	513.600	443.200	92	6097	06/1933	P
BAB OUENDER	OUARGHA	260/9	579.500	440.100	312	1710	1952	P
AIN AICHA	OUARGHA	1217/9	564.700	428.800	230	2420	07/1980	P
OURTZAGH	OUARGHA	79/9	541.550	437.920	150	4404	06/1950	P
BOUKARKOUR	LEBENE	2551/15	576.275	413.100	230	736	11/1985	P
PONT DU SKER	S'RA	81/9	573.400	441.995	315	500	06/1952	P
GALEZ	AMZEZ	1216/9	555.325	439.850	214	440	04/1978	P
TABOUDA	AOUDOUR	1215/9	524.250	461.600	180	861	04/1978	P
TAFRANT	AOUDOUR	608/9	524.500	448.200	115	1018	06/1952	P
RHAFSAI	AOULAI	607/9	542.800	545.940	190	770	06/1949	P
KHAROUBA	EL KEBIR	454/9	496.625	458.150	170	90	10/1977	P
HAJJAMINE	AOUDIAR	1373/9	519.850	455.700	147	335	10/1991	S
(TAZA)								
BAB MARZOUKA	INAOUENE	551/16	615.850	400.850	368	1317	09/1971	P
EL KOUCHAT	INAOUENE	653/16	583.750	394.650	230	2570	01/1976	P
BAB ECHHOUB	LAHDAR	702/16	622.470	406.250	402	610	10/1987	P
KASBAT BENI HITEM	EL ARBAA	672/16	631.800	412.500	508	253	10/1987	P

PRINCIPAL FEATURES OF FLOW GAUGING STATIONS OF DGH (3/6)

Station/Province	River	Code	Coordinates			Basin	Start	Type
		No.	X	Y	Z	(km^2)	(mon/yr)	
(SEFRO)								
DAR HAMRA	ZLOUL	1000/23	591.500	352.250	830	670	06/1982	P
(SIDI KACEM)								
AZIB SOLTANE	SEBOU	1540/15	492.000	413.900	45	16451	06/1959	P
BELKSIRI	SEBOU	633/8	448.250	441.000	16	26100	06/1966	P
KHENICHAT	OURGHA	1359/8	473.700	426.900	15	7300	09/1963	P
HAD KOURT	R'DAT	1436/8	470.350	439.930	30	673	02/1967	P
SOUK EL HAD	R'DON	3261/14	466.100	410.800	34	1750	06/1966	P
(KENITRA)								
SIDI ALLAL TAZI	SEBOU	1355/8	414.775	435.800	12	26600	01/1936	P
MY ALI CHERIF	M'DA	1545/8	434.650	459.050	11	372	1937	P
LALLA MIMOUNA	DRADER	1815/8	435.001	472.601	15	149	06/1972	P
(IFRANE)								
PONT AIT AISSA	GUI GOU	198/30	530.740	285.500	1688	203	01/1978	P
LAKHWIKHAT	GUI GOU	189/30	531.000	248.000	1914			S
SIDI MOKHFI	TIGRIGRA	669/22	507.600	311.800	1075	282	06/1976	P
AIT HADOU ALI	AMGHASS	692/22	492.500	310.100	905	38	01/1981	S
TIFOUNASSINE	LAC AGUELMAN	78/30	527.740	284.800	1913	15	02/1975	LS
DAYT AOUA	LAC DAYT AOUA	1255/22	533.000	340.000	1455		05/1991	LS
SOUK EL HAD (RP24)	IFRANE							
(KHENIFRA)								
TAMACHACHATE	AMANGOUSS	564/30	512.330	274.340	1685	138	06/1975	P
AGU. SIDI ALI	LAC AGUELMAN	77/30	537.800	276.000	2078	17	10/1968	LS
AG.TAANZOULT	AGUELMAN	197/30	535.580	275.600	2078	177	04/1978	S
(BOULEMANE)								
AIT KHABBACH	GUI GOU	585/22	577.000	314.800	1478	1240	09/1970	P
EL MERS	MAASSER	541/23	593.100	318.620	1210	1004	09/1981	P
(KHEMISSET)								
OULJET SOLTANE	BEHT	788/21	456.250	338.050	305	2500	01/1991	P
PONT RP1	BEHT	1262/14	450.950	364.750	140	3874	06/1968	S

(BASINS: BOU REGREG AND ATLANTIC COASTAL ZONE BETWEEN CASA-RABAT)

(BEN SLIMANE)								
FEDDANE TABA	N'FIFIKH	3682/20	333.550	331.200	120	606	06/1975	P
(KHEMISSET)								
ROUMANI	HANTATA	3983/20	388.300	326.325	320	54	04/1989	S
TSALAT	AGUENOUR	1132/21	441.300	303.800	650	690	01/1977	P
SIDI JABEUR	GROU	964/21	404.600	331.600	195	3067	11/1977	P
SIDI MED CHERIF	MECHRA	2674/20	385.850	328.200	270	588	11/1972	S
SIDI AMAR	TABAHART	1125/21	425.100	336.100	261	329	10/1977	P
LALLA CHAFIA	BOU REGREG	963/21	385.850	328.200	270	3230	08/1971	P
RAS EL FATHIA	GROU	989/21	394.300	352.200	100	3540	09/1975	P
AIN LOUDAH	KORIFLA	2673/20	373.750	329.150	175	636	10/1972	S
(KHOURIBGA)								
OULJET HABOUB	GROU	548/29	420.200	279.300	548	1627	10/1975	P
(RABAT)								
AGUIBAT EZZIAR	BOU REGREG	3118/14	394.550	368.150	80	3800	10/1975	P
DAR SOLTANE	BOU REGREG	1698/13	387.950	374.100	55	3800	10/1967	S
SKHIRAT	CHERRAT	3149/20	346.270	357.260	25	656	12/1967	S
CHEIKH REGUIG	YKEM	2027/13	355.750	362.000	50	518	04/1975	P
(SETAT)								
S.AHMED BEN ALI	MAZER	1372/28	307.300	280.900	324	183	06/1973	P
EL MERS	EL AHMAR	1375/28	320.050	279.150	448	173	06/1973	S
TAMDROST	TAMDROST	1369/28	299.450	277.540	306	630	06/1974	S

PRINCIPAL FEATURES OF FLOW GAUGING STATIONS OF DGH (4/6)

Station/Province	River	Code	Coordinates			Basin	Start	Type
		No.	X	Y	Z	(km^2)	(mon/yr)	
(BASIN: OUM ER-REBIA)								
(BENI MELLAL)								
AIN ASSERDOUNE	SOURCE	210/37	417.805	192.550	647			S (SE)
DECHER EL OUED	OUM ERRBIA	1475/37	452.550	231.550	595	3378	06/1952	P
MECHRAA EDDAHK	OUM ERRBIA	1478/37	394.975	204.775	406	6555	09/1963	P
MOULAY BOUZEKRI	DERNA	1481/37	401.310	207.400	431	665	11/1967	P
OULED SIDI DRISS	OUM ERRBIA	2408/36	338.950	192.600	320	18820	12/1967	P
TAGHZIRT	DERNA	1480/37	423.900	205.600	565	469	12/1967	S
TIZI N'ISLY	OUIRINE	2605/37	467.680	201.520	1350	1444	06/1975	P
(KHENIFRA)								
TARHAT	OUM ERRBIA	1376/29	476.400	267.500	1100	1026	01/1975	P
AVAL EL HERI	CHBOUKA	1377/29	478.480	251.175	836	329	06/1975	P
TAGHZOUTE	OUAOUMANA	2604/37	460.950	235.700	974	208	01/1975	P
CHACHA N'AMELLAH	SROU	1378/29	467.520	243.350	700	1400	06/1975	P
(AZILAL)								
OUAOUIRINTH	EL ABID	522/45	344.700	169.925	357	8220	09/1975	p
AIT OUCHENE	EL ABID	649/37	434.300	105.100	1070	2350	06/1975	p
SGATT	BERNAT	1817/45	377.800	136.100	1150	396	06/1988	S
ZAOUIT AHANCAL	AHANCAL	137/46	433.100	138.000	1595	180	06/1976	S
TILLOUGUITE	AHANCAL	138/46	423.000	158.700	1050	2030	05/1978	P
AIT SEGMINE	GHAZEF	1214/45	361.400	127.950	1025	461	06/1970	P
AIT TAMLILT	TESSAOUT	45/54	357.600	93.700	1860	446	06/1964	S
ADDEMAGHENE	LAKHDAR	1216/45	372.900	125.350	1125	1033	10/1973	S
(EL KELAA)								
BISSI-BISSA	TESSAOUT	1534/36	327.300	197.650	305	6020	06/1963	P
ASSAKA	LAKHDAR	1213/45	348.450	138.100	684	2610	1930	P
(BASINS: TENSIFT, KSOB AND IGOUZOULENE)								
(MARRAKECH)								
TAMESSMATTE	TESSAOUT	69/54	328.300	111.200	900	1350	03/1975	P
TAFERIAT	ZAT	1562/53	209.250	107.500	760	515	02/1962	S
AGHBALOU	OURIKA	2089/53	276.150	83.050	1070	503	04/1969	P
TAHANAOUT	RERAYA	1565/53	255.900	80.400	925	226	03/1962	P
IGUIR NKOURIS	N'FIS	510/62	238.900	453.800	1100	848	03/1974	P
IMIN EL HAMAM	N'FIS	1566/53	241.400	72.400	470	1296	07/1966	P
SIDI HSSAIN	AMIZMIZ	2431/53	229.100	70.170	1030	115	12/1987	S
SIDI BOUATHMANE	ASIF EL MAL	1976/53	209.400	74.300	820	510	11/1984	P
CHICHAOUA	CHICHAOUA	451/52	181.525	101.200	340	2200	01/1971	S
ILLOUDJANE	SEKSAOUA	628/52	146.245	70.525	757	436	10/1974	S
ABADLA	TENSIFT	1675/44	200.000	129.500	250	10152	05/1969	P
(ESSAOUIRA)								
TALMEST	TENSIFT	189/43	133.800	147.750	53	18452	09/1970	P
IGROUNZAR	IGROUNZAR	400/52	103.500	91.300	205	870	09/1963	S
ZELTENE	ZELTENE	401/52	103.300	90.650	210	423	12/1963	S
ADAMNA	KSOB	111/51	92.900	104.150	70	1480	07/1970	P
(EL KELAA)								
SIDI RAHAL	R'DAT	44/54	303.100	117.800	690	452	10/1963	P
BOUCHANE	BOUCHANE	470/35	215.300	193.700	280	1150	04/1991	S

PRINCIPAL FEATURES OF FLOW GAUGING STATIONS OF DGH (5/6)

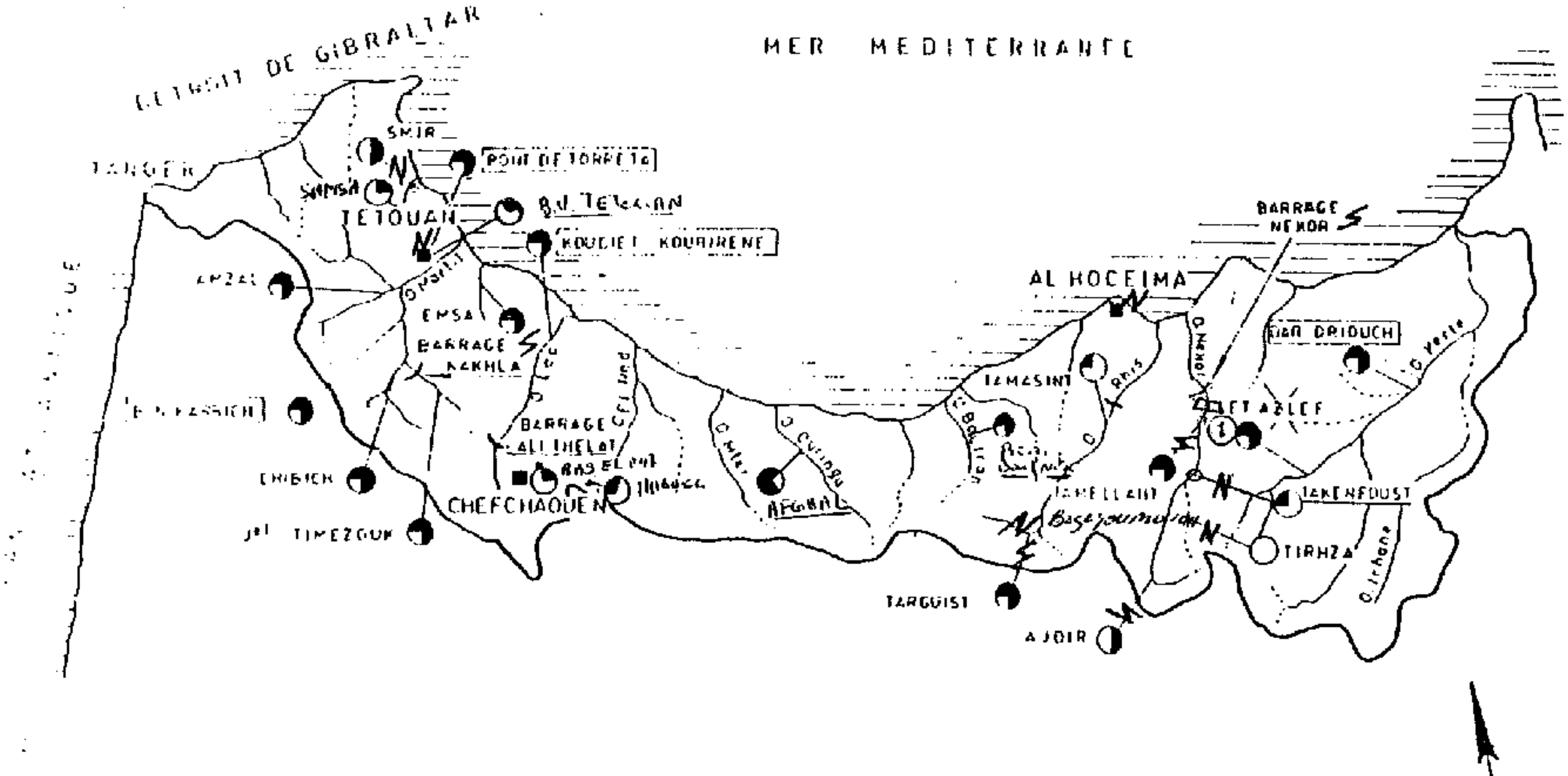
Station/Province	River	Code	Coordinates			Basin	Start	Type
		No.	X	Y	Z	(km^2)	(mon/yr)	
(BASINS: SOUSS-MASSA, TAMRI, DRAA AND COASTAL ZONE BETWEEN AGADIR AND TAN TAN)								
(AGADIR)								
AIT MELLOUL	SOUSS	4340/70	106.800	380.380	20	16100	11/69	P
IMI IMIKI	TAMRAGHTE	55/60	92.150	398.750	40	453	02/80	P
TAMRI	AIT AMER	228/60	77.900	420.150	23	1741	09/91	P
TIMICHA	LAC TIMICHA	5783/70	133.750	345.450	510	5.6	10/92	S (LC)
TAGUANZA	LAC TAGUANZA	5785/70	116.600	393.750	223	245	07/92	S (LC)
(GUELMIN)								
ASSAKA	ASSAKA	727/88	27.650	240.575	140	6500	01/80	P
TAGHJIJTE	ESSAYAD	350/89	180.100	236.800	570	1400	12/85	P
AIN ARRAHEMA	BOU ISSAFEN	23/87	0.400	220.850	70	1644	10/92	S
IMMAOUNE	LAC IMMAOUNE	1142/88	79.7	254.6	750	14.5	1992	S (LC)
(OUARZAZATE)								
AGOUILLAL	EL MALEH	541/63	337.275	446.550	1220	770	04/76	P
AGOUIME	IMINI	569/54	306.250	462.800	1647	204	04/69	P
AIT MOUTADE	DADES	509/55	422.900	492.290	1545	1525	07/63	P
AMANE N'TINI	OUARZAZATE	706/63	342.900	439.400	1170	3443	1982	P
ASSAKA TAFOUNANTE	N'AIT DOCHEN	537/63	332.900	400.450	1372	1387	05/75	P
IFRE	M'GOUNE	510/55	425.300	482.200	1498	1239	07/63	P
TAHERBILTE	N'AIT DOCHEN	343/63	351.150	426.300	1180	2379	08/67	P
TAMDROUSTE	IRIRI	516/63	329.000	439.600	1245	1693	09/72	P
TINOUAR	DADES	441/63	384.200	446.250	1135	6680	06/72	P
IMDGAR N'IZDAR	AMAGHA	535/63	314.250	402.950	1550	258	05/75	S
M'SEMRIR	BOU IKOULA	257/46	460.750	523.100	1939	712	05/70	S
TAADADTE	OUSSIKIS	258/46	456.950	519.800	1950	155	1967	S
TIDGHESTE	IZERKI	515/63	365.800	446.500	1150	393	05/81	S
ZAGORA	DRAA	840/73	458.240	369.230	703	20190	10/62	S
(TAROUDANT)								
AGUENZA	ISSEN	597/61	140.550	422.600	720	1130	12/79	P
AMSOUL	ISSEN	594/61	148.975	432.400	860	480	04/49	P
AOULOUZ PONT	SOUS	203/62	236.100	414.050	680	4450	1949	P
IBERGNATENE	IOUZIOUA	858/62	249.400	416.700	835	1300	10/77	P
IMMERGUEN	IMMERGUEN	642/62	249.000	402.660	889	2770	04/69	P
BOUSRIOUIL	BOUDRIOUIL	161/62	213.600	422.200	775	55	1959	S
FREIJA DRAIN	DRAIN	4365/70	173.040	392.320	260	Drain	01/40	S (CA)
IGUIDI	TIFNOUTE	1008/62	260.675	429.700	1200	250	09/88	S
LEMDAD	LEMDAD	114/62	221.700	421.700	670	345	1959	S
TALIOUINE	ZAGMOUZEN	625/71	259.375	394.600	1000	1290	09/88	S
TARGA PONT	TARGA	446/62	209.700	419.000	665	112	1959	S
TAROUDANT PONT	SOUSS	359/70	164.150	386.400	209	9350	1954	S
AIT KHORAIF	WAAR	936/61	171.475	407.880	460	233	05/92	S
OULAD TEIMA	SOUS	5828/70	130.7	386.65	85		09/95	S
(TATA)								
KASBAT ZOLITE	TATA	415/80	255.450	311.400	712	1940	05/85	P
FOUM ZGUID	ZGUID	775/72	357.650	344.200	649	3250	11/91	S
TALMAZIRT	TAMANARTE	411/89	154.300	247.400	647	1220	02/91	S
(TIZNIT)								
AMAGHOUZ	AMAGHOUZ	1276/79	133.550	309.250	610	955	04/76	P
IFNI	IFNI	726/88	37.950	273.750	20	685	10/79	P
OUIJJANE	ASSAKA	810/78	102.100	279.850	180	892	04/76	P
TALAINT	ADOUDOU	1221/78	83.800	288.200	470	236	11/92	S
(TANTAN)								
TANTAN	BEN KHELIL	298/90	58.480	174.320	45	864	09/84	P
P.TANTAN	DRAA	447/90	43.100	183.550	17	86740	10/92	P

PRINCIPAL FEATURES OF FLOW GAUGING STATIONS OF DGH (6/6)

Station/Province	River	Code No.	Coordinates			Basin (km^2)	Start (mon/yr)	Type
			X	Y	Z			
(BASINS: ZIZ-RHERIS AND GUIR)								
(ER RACHIDIA)								
ZAOUIA SIDI HAMZA		31/38	564.400	204.350	1645			S
TARHIA AMOUGUER	RHERIS	486/47	526.900	155.600	1400		08/1968	S
FOUM TILLICH	SIDI HAMZA	1508/38	579.850	192.500	1400	1240	10/1975	P
TADIGHOUSTE	RHERIS	426/47	543.500	140.600	1140	2345	06/1961	P
LAHROUN	RHERIS	485/47	542.300	152.600	1275		08/1968	S
TAZOUGUERT	GUIR	628/48	552.595	161.045	1029	2392	06/1961	P
AOUFOUS RADIER	AFOUS	826/48	615.850	121.900	880		06/1969	S
FOM ZAABEL	ZIZ	867/48	597.450	174.650	1210	3974	04/1970	P
KADDOUSSA	GUIR	888/48	652.150	175.970	1120		06/1953	S
AMEZOUJ	ZIZ	1045/48	596.025	162.300	1130		02/1975	S
IFFRE (KSAR TIMKIT)	IFFER	1270/56	507.320	116.100	1230		09/1961	S
FERKALA	FERKALA	1271/56	536.950	104.550	990		03/1961	S
MERROUTCH	FERKALA	1548/56	549.000	107.300	936	4500	06/1977	P
LAHMIDA	RHERIS	384/57	602.100	101.950	825	9900	09/1976	P
RADIER ARFOUD	ZIZ	2029/57	615.400	103.800	820	8146	04/1954	P
MEGTAA SFA	RHERIS	3295/57	599.913	465.192	703		06/1961	S
TAOUZ	ZIZ	106/66	632.500	436.100	681		04/1972	S
M'ZIZEL	ZIZ	1585/38	560.000	185.300	1441	3974	06/1985	P
AVAL Bage.H.DAKHIL	ZIZ	1940/48	588.700	154.500	1045			P
(BOUARFA)								
BENI YATTI	BOUANANE	37/49	721.840	176.810	905	6788	06/1954	P
PONT BOUANANE	BOUANANE	112/49	721.660	163.320	870		06/1954	S
TIT N'AISSA	AIT AISSA	330/39	676.310	193.940	1140		06/1977	P
AIT HADOU	AIT AISSA	70/39	650.740	27.680	1502		06/1968	S
AIN CHOUATTER	GUIR	113/49	732.100	141.100	780		06/1962	S
JBEL LAKEHAL	BOUANANE	117/49	722.730	171.300			06/1977	S
CANAL MY BRAHIM	ZIZ	3965/57	604.450	493.145	785			S
(OUARZAZATE)								
AIT BOUJANE	TODRR	355/55	485.600	104.450	1300	720	10/1960	P
TAZARINE			483.750	420.000	252			P

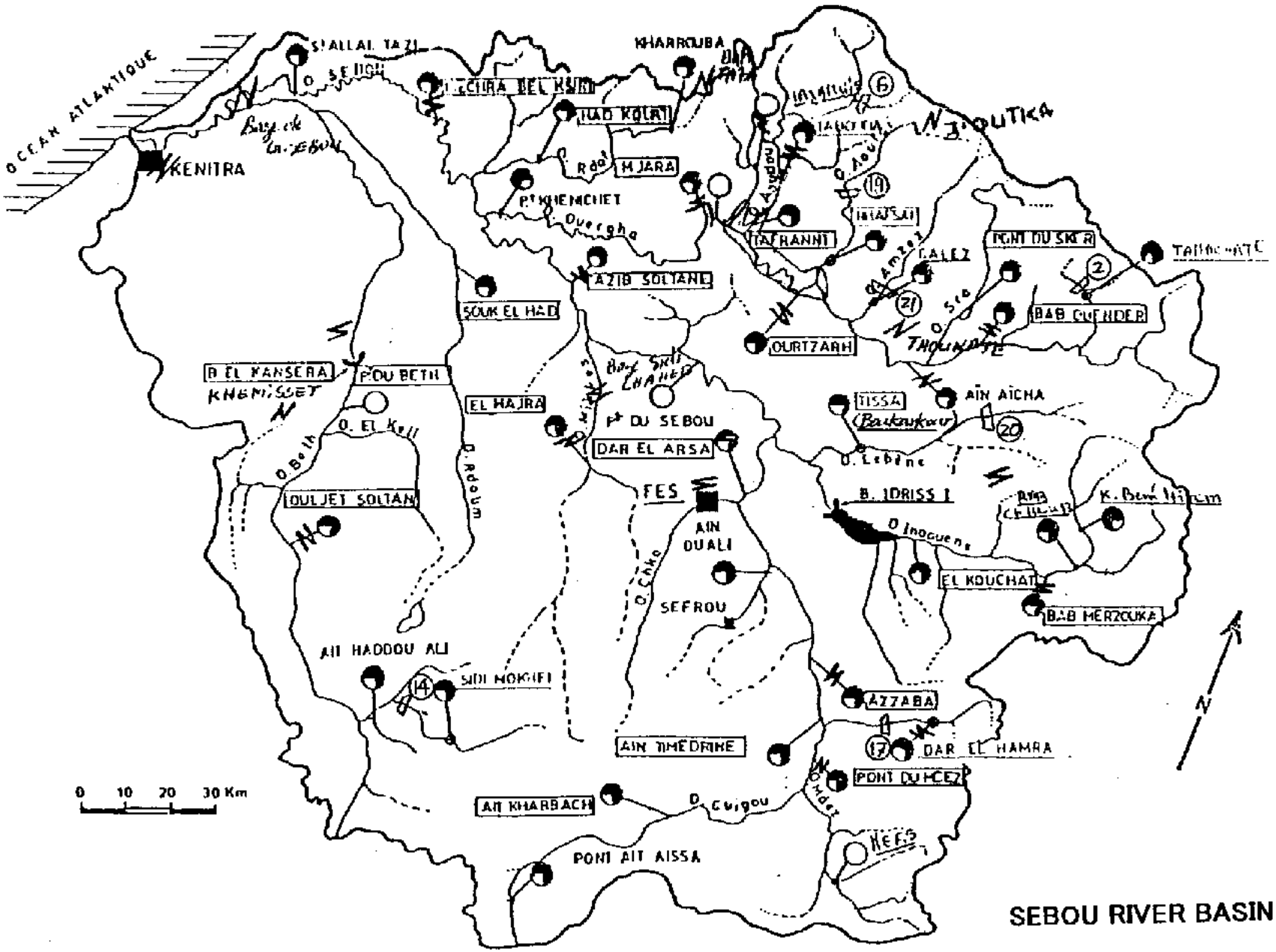
(Notes) Basin: basin area
Start: start of observation
Type: type of station (P, S and SE: principal, simplified and source stations)

HY2-7



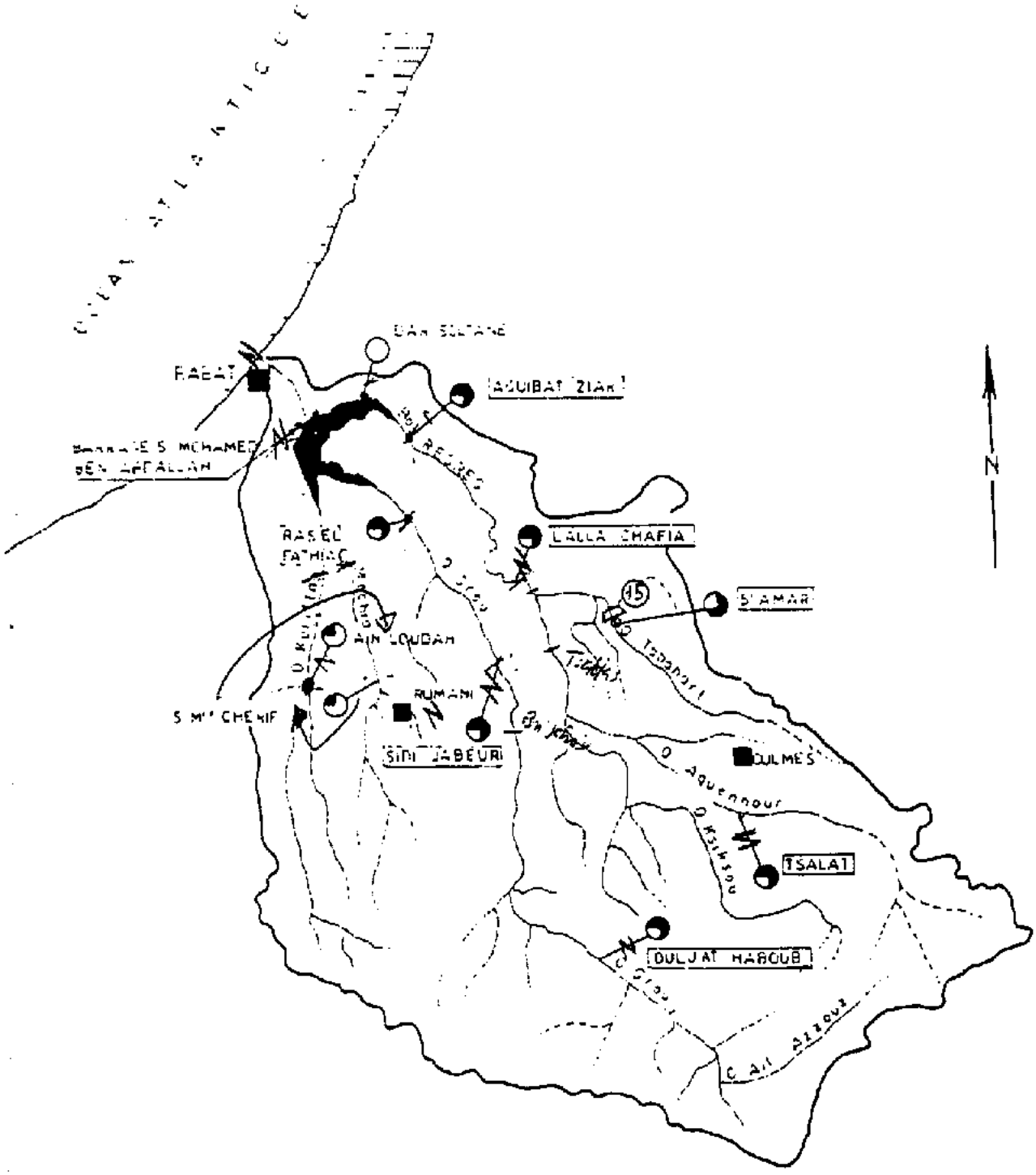
MEDITERRANEAN COASTAL RIVER BASINS

0 10 20 30Km

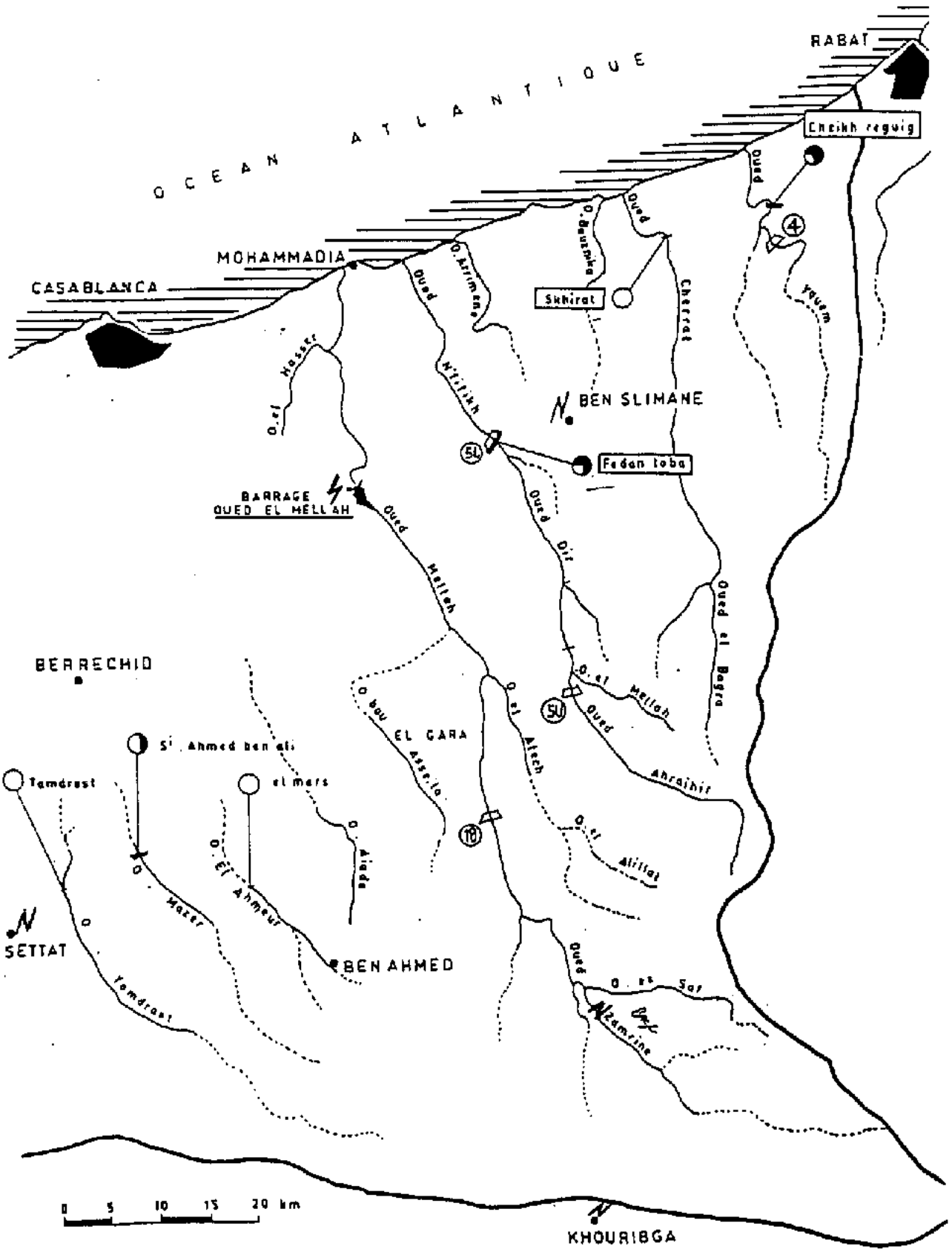


SEBOU RIVER BASIN

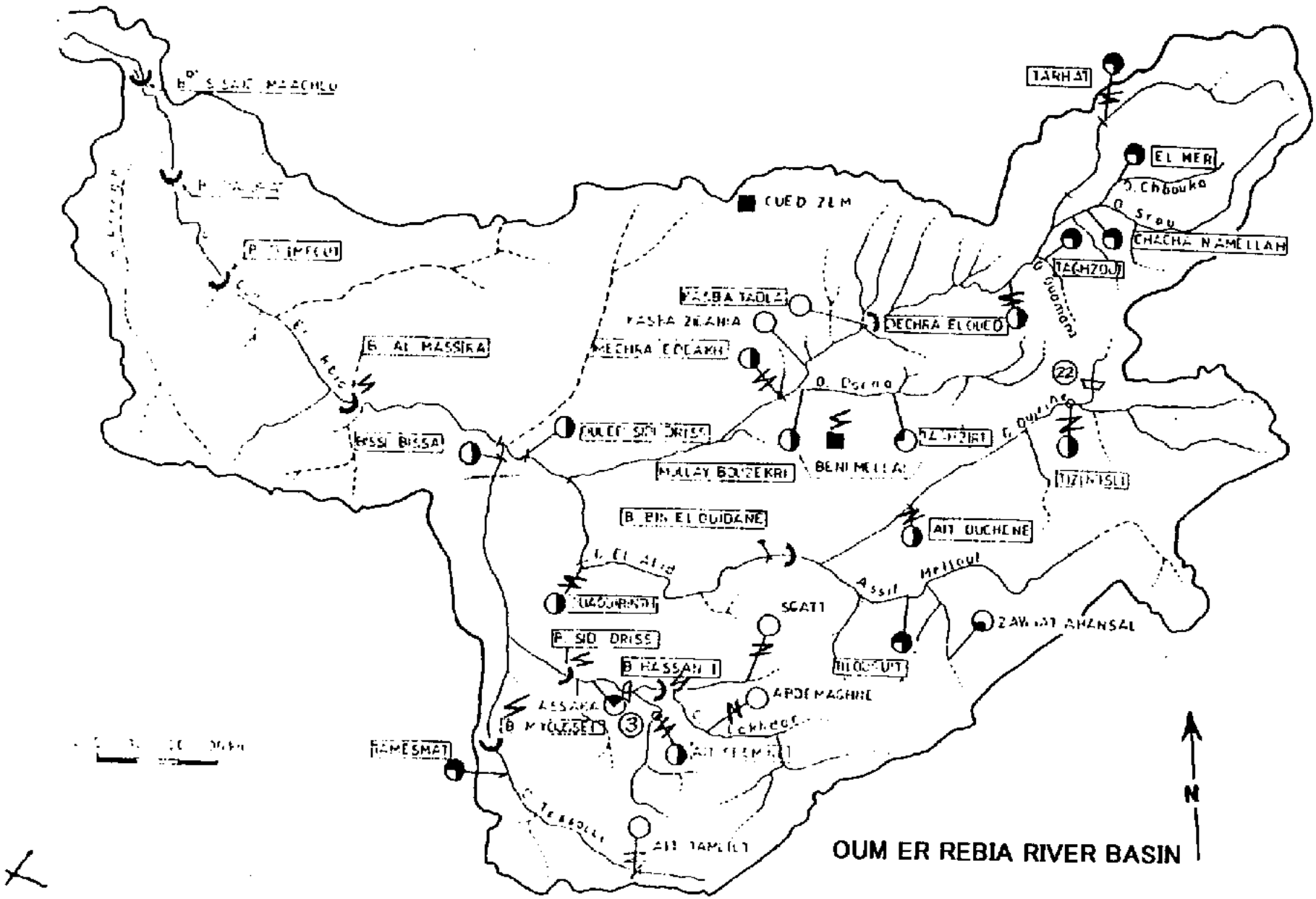
HYZ-8



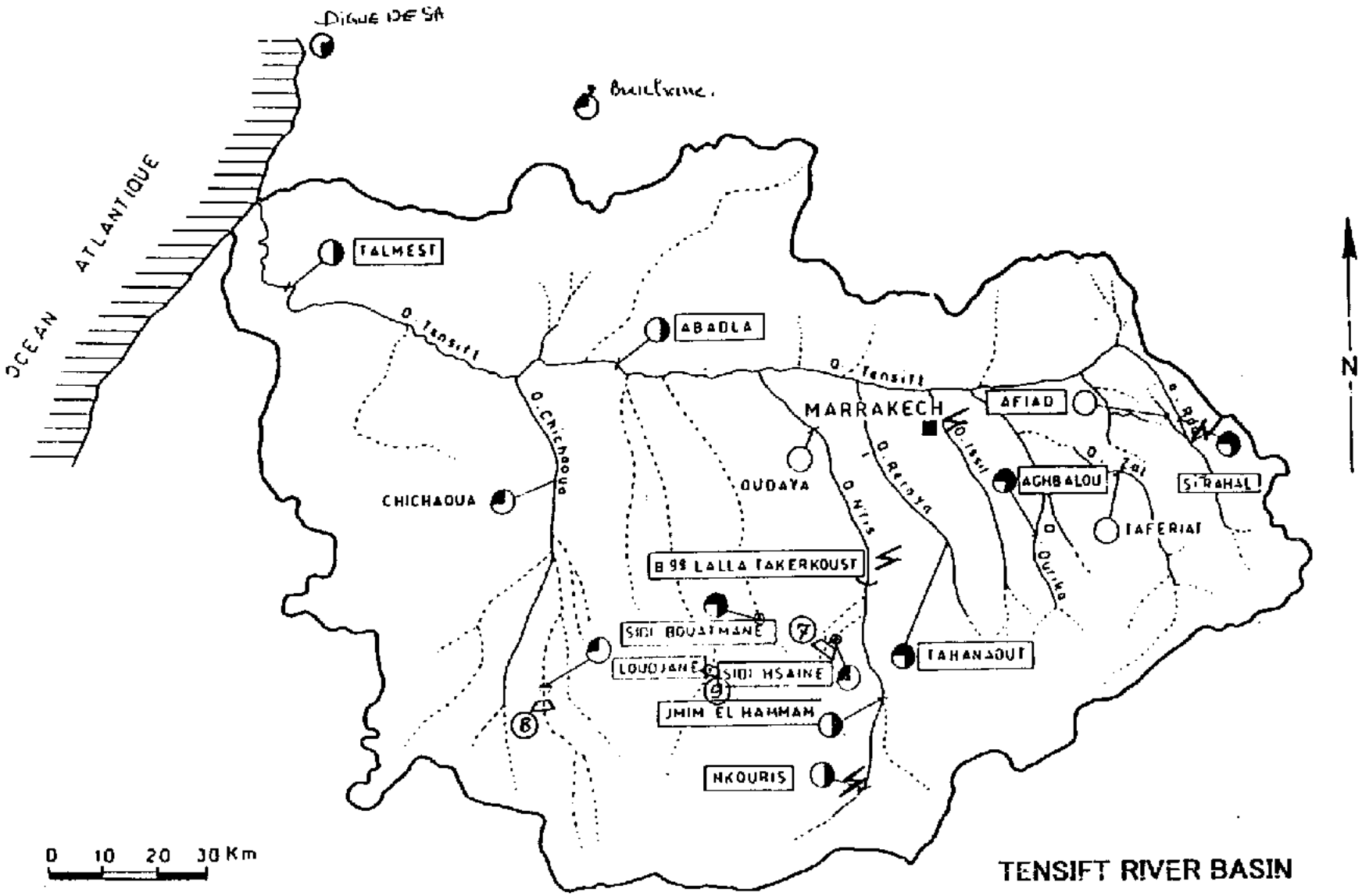
BOU REGREG RIVER BASIN



ATLANTIC COASTAL RIVER BAISNS (CASABLANCA-RABAT)



OUM ER REBIA RIVER BASIN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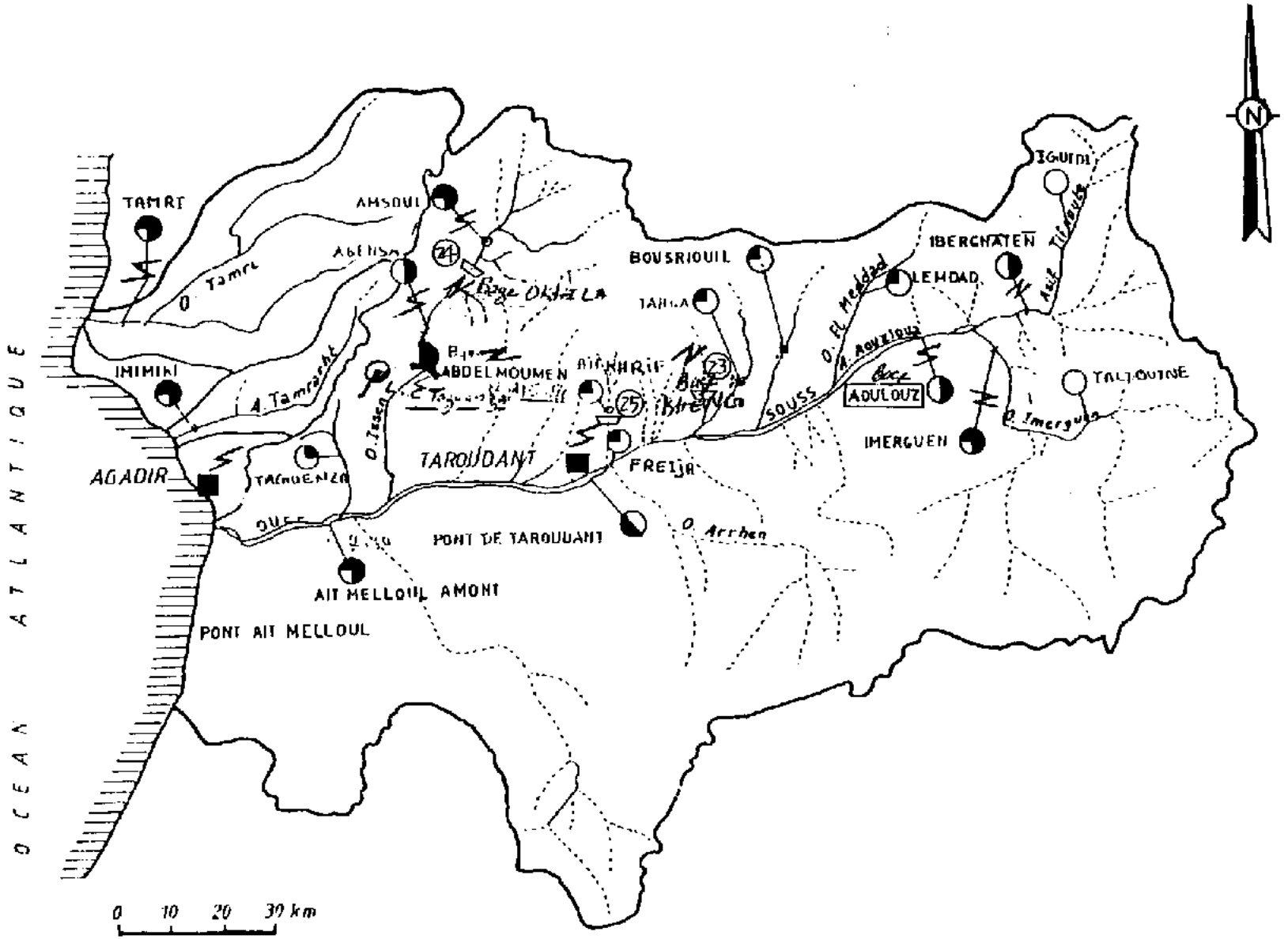
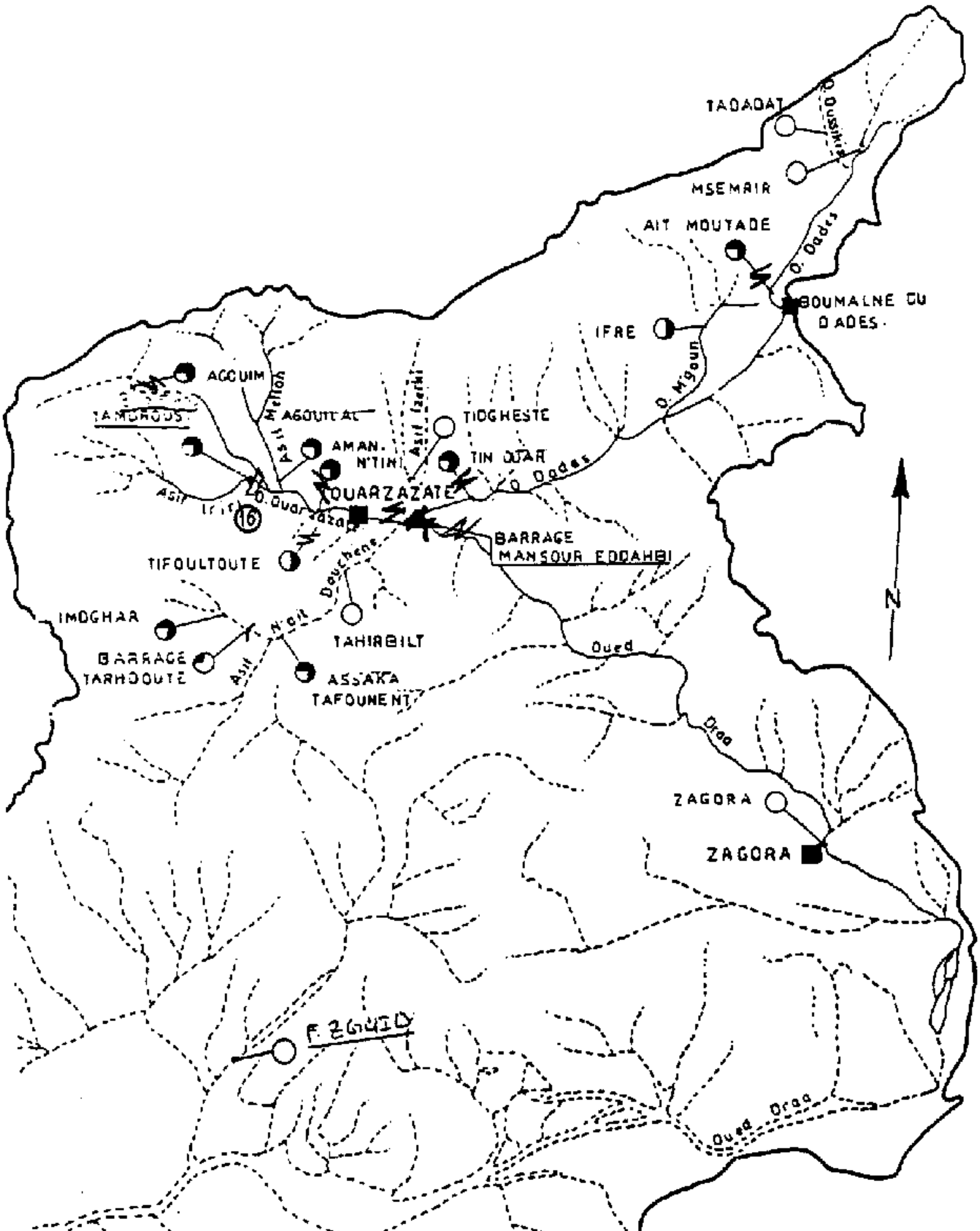
Barrage
OCEAN ATLANTIQUE
TALMEST
ABADLA
O. Tensift
O. Chichaoua
MARRAKECH
AFIAD
O. Rdat
AGHBALOU
O. Zat
SIRAHAL
TAFERIAT
O. Ourika
CHICHAOUA
OUDAYA
O. N'fis
O. Reraya
O. Issil
B 99 LALLA TAKERKOUST
SIDI BOUATMANE
LOUDJANE
SIDI HSAINE
JMIM EL HAMMAM
NKOURIS
TAHANAOUT
N
0 10 20 30 Km
TENSIFT RIVER BASIN

HY2-12



SOUSS, TAMRAGHTE AND TAMRI RIVER BASINS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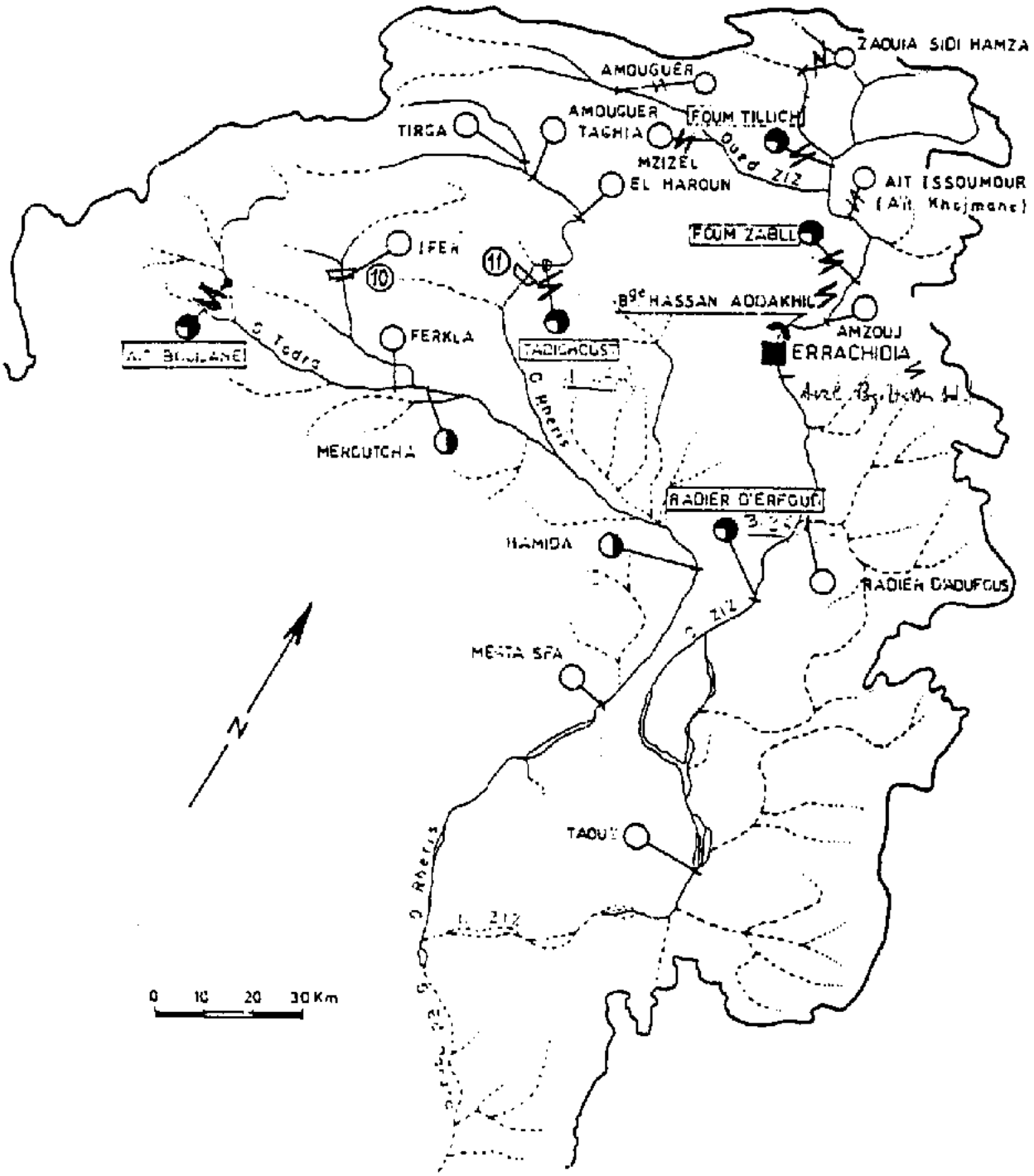
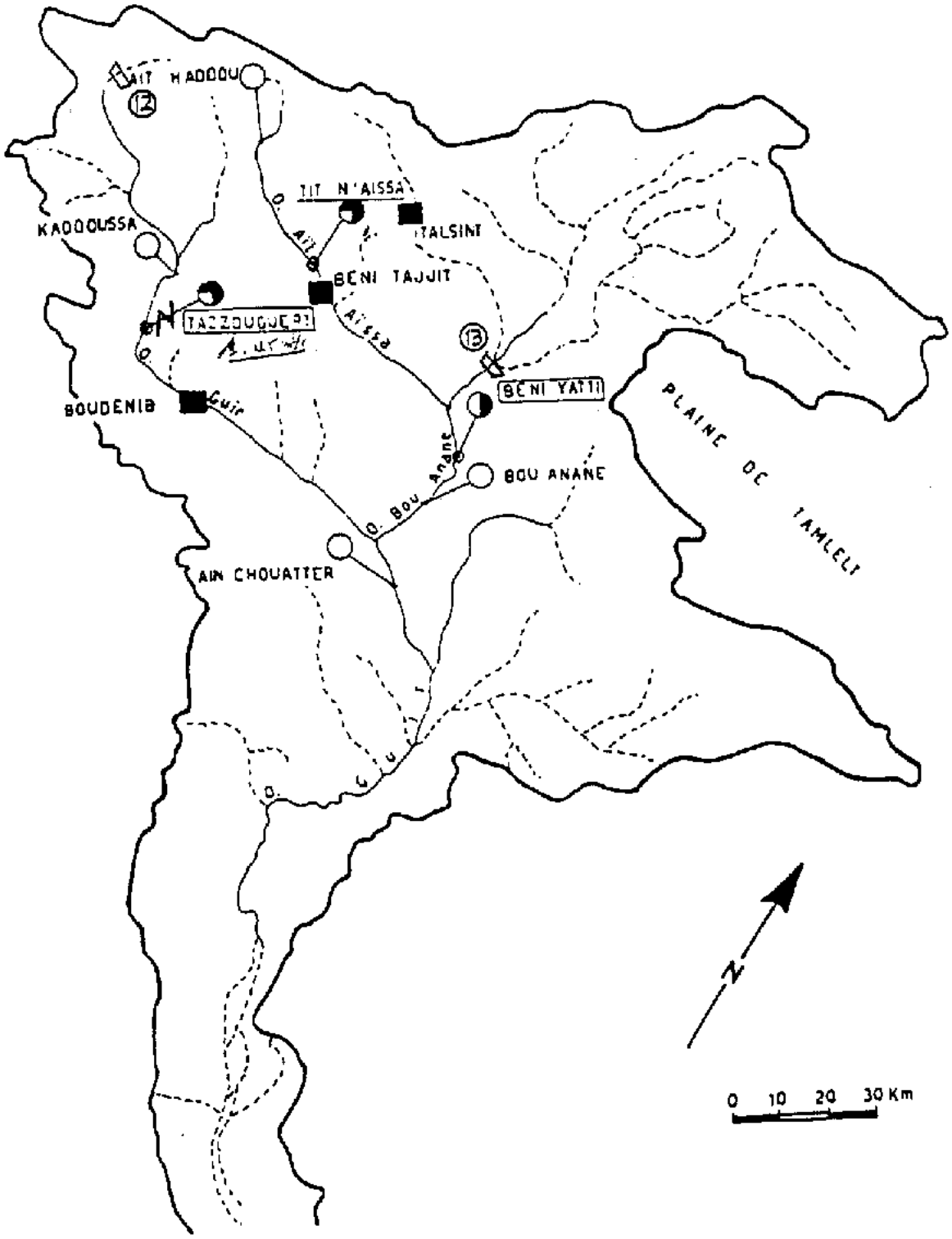
AIT MOUTADE
BOUMALNE DU DADES
IFRE
O. Dades
O. M'goun
AGOUIM
TAMGROUST
AGOUILLAL
Asif Mellah
Asif Izerki
TIDGHESTE
AMAN N'TINI
TIN OUAR
OUARZAZATE
O. Ouarzazate
Asif Iriri
16
BARRAGE MANSOUR EDDAHBI
TIFOULTOUTE
Douchene
TAHIRBILT
IMDGHAR
BARRAGE TARHOOUTE
Asif N'ait
ASSAKA TAFOUNENT
Oued
Draa
ZAGORA
ZAGORA
F. ZGUID
Oued Draa
N
DRAA RIVER BASIN
0 10 20 30 Km



ZIZ RIVER BASIN



GUIR RIVER BASIN

FLOW DURATION AT DAM SITES(1/9)

Dam:	NECKOR (NO.1)				TIZIMELLAL (NO.2)				AIT BADDOU (NO.3)			
B.Area:	710 km^2				170 km^2				194 km^2			
Period:	1989-1994				1975-1981				1977-1996			
Order			Ave.	Cumu.			Ave.	Cumu.			Ave.	Cumu.
day	Max.	Min.	0.37	%	Max.	Min.	1.21	%	Max.	Min.	0.88	%
Max.	6.08	0.45	3.22	2	50.26	3.02	18.18	4	191.05	3.45	30.80	10
95d	0.89	0.19	0.51	49	2.82	0.33	1.50	73	1.17	0.15	0.74	78
185d	0.35	0.17	0.28	76	0.63	0.15	0.46	89	0.66	0.07	0.33	92
275d	0.30	0.09	0.18	91	0.34	0.12	0.26	96	0.32	0.00	0.14	98
355d	0.18	0.00	0.09	99	0.25	0.11	0.18	100	0.13	0.00	0.03	100
1	6.08	0.45	3.22	2.4	50.26	3.02	18.18	4.1	191.05	3.45	30.80	9.5
2	5.84	0.44	2.71	4.4	31.04	1.92	13.31	7.1	74.07	3.43	17.37	14.9
3	1.97	0.39	1.32	5.4	27.72	1.86	12.04	9.8	46.71	2.87	13.23	19.0
4	1.72	0.38	1.13	6.2	25.99	1.21	10.84	12.2	39.68	2.81	11.17	22.4
5	1.70	0.37	1.06	7.0	20.70	1.00	8.27	14.1	26.55	2.38	8.74	25.1
6	1.59	0.36	1.01	7.8	19.34	0.95	7.17	15.7	25.12	2.10	7.93	27.6
7	1.23	0.36	0.91	8.4	16.26	0.94	6.33	17.1	21.34	1.56	6.98	29.7
8	1.17	0.36	0.84	9.1	16.14	0.94	6.18	18.5	11.61	1.49	5.98	31.6
9	1.12	0.34	0.82	9.7	15.15	0.90	5.80	19.8	10.98	1.32	5.57	33.3
10	1.08	0.34	0.79	10.3	13.55	0.88	5.51	21.1	10.39	1.31	5.30	34.9
11	1.08	0.34	0.78	10.8	11.57	0.79	5.11	22.2	10.27	1.17	4.79	36.4
12	1.06	0.33	0.76	11.4	11.04	0.70	4.89	23.3	10.23	1.14	4.47	37.8
13	1.05	0.33	0.75	11.9	10.80	0.70	4.74	24.4	10.18	1.13	4.11	39.1
14	1.04	0.33	0.74	12.5	9.94	0.70	4.51	25.4	10.02	0.96	3.90	40.3
15	1.03	0.33	0.74	13.0	9.63	0.70	4.42	26.4	8.54	0.80	3.66	41.4
16	1.01	0.32	0.72	13.6	9.05	0.69	4.21	27.3	8.50	0.79	3.50	42.5
17	1.01	0.31	0.71	14.1	8.44	0.65	4.04	28.2	7.95	0.72	3.33	43.5
18	1.01	0.31	0.71	14.6	8.41	0.62	4.02	29.2	7.91	0.68	3.18	44.5
19	1.01	0.31	0.71	15.2	8.02	0.61	3.94	30.0	7.74	0.67	3.06	45.4
20	1.01	0.31	0.70	15.7	7.97	0.60	3.90	30.9	7.62	0.66	2.90	46.3
21	1.01	0.31	0.70	16.2	7.65	0.60	3.83	31.8	7.53	0.66	2.82	47.2
22	1.01	0.31	0.69	16.7	7.26	0.57	3.72	32.6	7.45	0.64	2.71	48.1
23	1.01	0.31	0.69	17.2	7.14	0.57	3.66	33.4	7.24	0.64	2.61	48.9
24	1.01	0.31	0.69	17.7	7.12	0.54	3.59	34.2	7.11	0.61	2.55	49.7
25	1.01	0.31	0.68	18.2	6.79	0.53	3.50	35.0	6.65	0.59	2.45	50.4
26	1.01	0.31	0.68	18.7	6.74	0.52	3.47	35.8	6.44	0.58	2.37	51.1
27	1.01	0.31	0.68	19.3	6.69	0.50	3.42	36.6	5.89	0.58	2.29	51.8
28	1.01	0.31	0.68	19.8	6.50	0.46	3.35	37.3	5.85	0.56	2.23	52.5
29	1.00	0.31	0.68	20.3	6.37	0.46	3.27	38.1	5.72	0.54	2.17	53.2
30	1.00	0.30	0.67	20.8	6.32	0.46	3.22	38.8	5.64	0.53	2.13	53.9
40	0.94	0.28	0.64	25.7	5.27	0.39	2.82	45.6	3.99	0.43	1.69	59.6
50	0.90	0.20	0.59	30.2	4.89	0.39	2.58	51.6	2.87	0.37	1.36	64.3
60	0.90	0.20	0.58	34.5	4.67	0.39	2.32	57.1	2.17	0.33	1.15	68.1
70	0.90	0.20	0.56	38.7	4.31	0.39	2.11	62.1	1.66	0.28	0.98	71.4
80	0.90	0.20	0.54	42.8	4.11	0.36	1.96	66.7	1.45	0.23	0.86	74.2
90	0.90	0.19	0.51	46.7	3.51	0.33	1.67	70.7	1.20	0.20	0.78	76.7
120	0.88	0.19	0.47	57.5	1.64	0.32	0.97	79.4	0.99	0.11	0.58	82.9
150	0.85	0.19	0.42	67.5	0.87	0.22	0.64	84.7	0.89	0.09	0.44	87.6
180	0.35	0.18	0.28	75.3	0.63	0.17	0.47	88.4	0.70	0.07	0.34	91.1
210	0.35	0.16	0.25	81.2	0.49	0.14	0.37	91.2	0.54	0.05	0.27	93.9
240	0.31	0.13	0.22	86.4	0.41	0.12	0.31	93.4	0.43	0.04	0.20	96.0
270	0.30	0.09	0.18	90.8	0.35	0.12	0.26	95.3	0.34	0.00	0.15	97.6
300	0.23	0.00	0.13	94.5	0.31	0.12	0.24	97.0	0.20	0.00	0.10	98.8
330	0.20	0.00	0.12	97.2	0.30	0.11	0.21	98.5	0.18	0.00	0.06	99.5
360	0.18	0.00	0.10	99.6	0.24	0.11	0.17	99.8	0.13	0.00	0.03	100.0

FLOW DURATION AT DAM SITES(2/9)

Dam:	AIN KWACHIYA (NO.4)				AIN KSOB (NO.5)				TAZARANE (NO.6)			
B.Area:	162 km^2				300 km^2				30 km^2			
Period:	1976-1995				1977-1996				1978-1995			
Order			Ave.	Cumu.			Ave.	Cumu.			Ave.	Cumu.
day	Max.	Min.	0.21	%	Max.	Min.	0.29	%	Max.	Min.	0.38	%
Max.	48.47	0.69	10.17	13	49.50	0.38	19.18	18	36.59	0.76	11.89	9
95d	0.15	0.00	0.03	97	0.39	0.00	0.07	93	0.99	0.01	0.25	90
185d	0.06	0.00	0.01	99	0.21	0.00	0.04	97	0.16	0.01	0.06	98
275d	0.02	0.00	0.00	100	0.08	0.00	0.02	99	0.03	0.00	0.01	100
355d	0.01	0.00	0.00	100	0.04	0.00	0.01	100	0.01	0.00	0.00	100
1	48.47	0.69	10.17	13.4	49.50	0.38	19.18	18.4	36.59	0.76	11.89	8.6
2	37.53	0.46	6.95	22.5	35.30	0.09	10.58	28.5	22.37	0.57	8.49	14.7
3	22.49	0.26	5.01	29.1	32.52	0.09	7.86	36.0	18.54	0.46	7.04	19.8
4	17.45	0.08	3.75	34.0	27.28	0.08	6.30	42.1	16.52	0.43	6.06	24.2
5	17.42	0.06	3.49	38.6	20.89	0.06	5.14	47.0	16.52	0.24	5.19	28.0
6	15.29	0.06	3.07	42.7	20.74	0.06	4.17	51.0	15.64	0.22	4.70	31.4
7	14.86	0.04	2.83	46.4	20.69	0.05	3.89	54.7	11.85	0.13	3.96	34.2
8	12.57	0.01	2.54	49.7	20.00	0.04	3.58	58.1	11.11	0.08	3.61	36.8
9	11.42	0.01	2.18	52.6	15.74	0.04	3.10	61.1	9.30	0.06	3.22	39.2
10	9.60	0.01	1.93	55.1	11.93	0.04	2.50	63.5	9.16	0.06	2.92	41.3
11	9.35	0.00	1.79	57.5	9.06	0.03	2.13	65.6	8.99	0.05	2.65	43.2
12	8.85	0.00	1.62	59.6	8.71	0.03	1.89	67.4	8.36	0.05	2.42	45.0
13	8.16	0.00	1.48	61.6	8.71	0.02	1.78	69.1	8.26	0.05	2.32	46.6
14	8.07	0.00	1.42	63.5	8.32	0.02	1.65	70.6	7.53	0.05	2.16	48.2
15	7.60	0.00	1.34	65.2	7.28	0.02	1.45	72.0	6.97	0.05	2.05	49.7
16	7.54	0.00	1.28	66.9	7.13	0.01	1.37	73.3	5.85	0.05	1.91	51.1
17	7.54	0.00	1.22	68.5	6.78	0.01	1.21	74.5	5.71	0.05	1.82	52.4
18	7.38	0.00	1.14	70.0	6.63	0.01	1.14	75.6	5.61	0.05	1.75	53.7
19	6.35	0.00	1.04	71.4	6.24	0.01	1.06	76.6	5.57	0.05	1.69	54.9
20	6.32	0.00	0.95	72.6	6.14	0.01	1.02	77.6	5.02	0.04	1.59	56.0
21	5.66	0.00	0.89	73.8	5.64	0.01	0.96	78.5	4.98	0.04	1.53	57.1
22	5.44	0.00	0.84	74.9	5.59	0.01	0.91	79.4	4.91	0.04	1.45	58.2
23	5.41	0.00	0.81	76.0	5.50	0.01	0.87	80.2	4.84	0.04	1.40	59.2
24	5.29	0.00	0.78	77.0	4.25	0.01	0.76	80.9	4.74	0.04	1.36	60.2
25	5.22	0.00	0.77	78.0	3.87	0.01	0.67	81.6	4.56	0.04	1.30	61.1
26	5.00	0.00	0.74	79.0	3.42	0.01	0.60	82.2	4.49	0.04	1.26	62.0
27	4.53	0.00	0.68	79.9	2.83	0.01	0.53	82.7	4.36	0.04	1.22	62.9
28	4.22	0.00	0.63	80.7	2.83	0.01	0.51	83.2	4.36	0.04	1.18	63.8
29	4.22	0.00	0.60	81.5	2.42	0.01	0.47	83.6	4.25	0.04	1.14	64.6
30	4.03	0.00	0.58	82.3	2.39	0.01	0.44	84.0	4.22	0.04	1.10	65.4
40	3.05	0.00	0.36	88.2	1.06	0.01	0.24	87.0	2.99	0.03	0.81	72.2
50	1.90	0.00	0.23	92.0	0.85	0.01	0.16	88.9	2.14	0.02	0.60	77.1
60	1.18	0.00	0.14	94.3	0.66	0.00	0.12	90.2	1.76	0.02	0.47	81.0
70	0.49	0.00	0.08	95.7	0.56	0.00	0.10	91.2	1.49	0.02	0.39	84.0
80	0.24	0.00	0.05	96.5	0.48	0.00	0.08	92.0	1.23	0.02	0.32	86.5
90	0.17	0.00	0.04	97.1	0.41	0.00	0.07	92.8	1.06	0.02	0.27	88.7
120	0.08	0.00	0.02	98.1	0.25	0.00	0.05	94.4	0.66	0.01	0.17	93.3
150	0.07	0.00	0.01	98.7	0.22	0.00	0.04	95.8	0.28	0.01	0.10	96.3
180	0.06	0.00	0.01	99.1	0.22	0.00	0.04	96.9	0.17	0.01	0.06	98.0
210	0.05	0.00	0.01	99.4	0.18	0.00	0.03	97.8	0.14	0.00	0.03	99.0
240	0.03	0.00	0.00	99.6	0.12	0.00	0.02	98.6	0.06	0.00	0.02	99.5
270	0.02	0.00	0.00	99.7	0.08	0.00	0.02	99.1	0.03	0.00	0.01	99.7
300	0.02	0.00	0.00	99.9	0.07	0.00	0.01	99.5	0.02	0.00	0.01	99.8
330	0.01	0.00	0.00	99.9	0.04	0.00	0.01	99.8	0.01	0.00	0.00	99.9
360	0.01	0.00	0.00	100.0	0.04	0.00	0.01	100.0	0.01	0.00	0.00	100.0

FLOW DURATION AT DAM SITES(3/9)

Dam:	AMEZMIZ (NO.7)				BOULAOUANE (NO.8)				TASKOURT (NO.9)			
B.Area:	80 km^2				565 km^2				439 km^2			
Period:	1988-1995				1976-1994				1985-1995			
Order			Ave.	Cumu.			Ave.	Cumu.			Ave.	Cumu.
day	Max.	Min.	0.49	%	Max.	Min.	1.32	%	Max.	Min.	1.16	%
Max.	13.57	1.08	5.29	3	84.62	0.54	19.72	4	154.08	2.96	31.42	7
95d	1.10	0.31	0.62	55	6.82	0.01	1.70	69	2.81	0.06	1.34	74
185d	0.58	0.19	0.37	80	3.23	0.01	0.64	91	1.63	0.02	0.56	93
275d	0.35	0.08	0.20	93	2.64	0.00	0.24	98	0.43	0.01	0.10	99
355d	0.18	0.00	0.08	100	0.11	0.00	0.02	100	0.03	0.00	0.01	100
1	13.57	1.08	5.29	2.9	84.62	0.54	19.72	4.1	154.08	2.96	31.42	7.4
2	8.83	1.02	3.12	4.7	76.07	0.46	14.73	7.1	38.39	1.92	14.60	10.9
3	5.52	0.80	2.40	6.0	65.57	0.38	11.24	9.4	33.74	1.92	11.06	13.5
4	4.91	0.80	2.21	7.2	56.63	0.21	9.62	11.4	29.27	1.92	9.85	15.8
5	3.37	0.79	1.94	8.3	48.85	0.17	8.69	13.2	27.72	1.92	9.20	18.0
6	2.94	0.78	1.75	9.3	42.12	0.13	7.80	14.8	21.18	1.90	7.20	19.7
7	2.93	0.77	1.68	10.2	36.28	0.12	7.16	16.3	21.00	1.90	6.80	21.3
8	2.55	0.76	1.55	11.1	31.36	0.11	6.67	17.7	18.85	1.57	6.11	22.7
9	2.49	0.71	1.51	11.9	27.08	0.10	6.20	19.0	15.92	1.32	5.45	24.0
10	2.46	0.70	1.49	12.8	25.01	0.10	5.87	20.2	14.20	1.25	5.19	25.2
11	2.42	0.69	1.45	13.6	23.33	0.07	5.45	21.3	13.17	1.21	4.96	26.4
12	2.42	0.69	1.40	14.3	20.09	0.04	5.12	22.4	12.22	1.15	4.74	27.5
13	2.39	0.68	1.37	15.1	17.36	0.04	4.84	23.4	11.88	1.06	4.62	28.6
14	2.35	0.67	1.35	15.8	16.59	0.04	4.76	24.4	10.07	1.03	4.40	29.6
15	2.31	0.64	1.31	16.6	15.94	0.03	4.66	25.3	9.73	1.03	4.31	30.7
16	2.28	0.64	1.30	17.3	15.68	0.03	4.61	26.3	9.30	1.03	4.18	31.6
17	2.25	0.64	1.25	18.0	14.90	0.03	4.51	27.2	8.95	0.95	4.04	32.6
18	2.24	0.64	1.23	18.7	14.38	0.03	4.40	28.1	8.58	0.90	3.92	33.5
19	2.22	0.64	1.22	19.4	14.13	0.03	4.27	29.0	8.09	0.73	3.80	34.4
20	2.18	0.62	1.20	20.0	14.00	0.03	4.16	29.9	6.88	0.72	3.65	35.3
21	2.16	0.62	1.19	20.7	13.87	0.03	4.03	30.7	6.77	0.70	3.57	36.1
22	2.16	0.61	1.17	21.3	13.22	0.02	3.93	31.5	6.61	0.69	3.52	37.0
23	2.16	0.60	1.15	22.0	13.09	0.02	3.85	32.3	6.61	0.69	3.46	37.8
24	2.16	0.59	1.14	22.6	13.09	0.02	3.80	33.1	6.61	0.68	3.43	38.6
25	2.13	0.59	1.13	23.2	12.96	0.02	3.76	33.9	6.42	0.67	3.39	39.4
26	2.08	0.59	1.11	23.9	12.96	0.02	3.71	34.6	6.34	0.67	3.36	40.2
27	2.00	0.58	1.09	24.5	12.96	0.02	3.63	35.4	6.22	0.67	3.29	41.0
28	1.93	0.57	1.08	25.1	12.87	0.02	3.54	36.1	6.10	0.67	3.22	41.7
29	1.81	0.56	1.05	25.7	12.86	0.02	3.47	36.8	5.97	0.66	3.10	42.4
30	1.79	0.55	1.05	26.2	12.83	0.02	3.39	37.5	5.88	0.66	3.06	43.2
40	1.66	0.47	0.94	31.7	12.35	0.02	2.94	44.0	5.50	0.42	2.60	49.8
50	1.38	0.42	0.84	36.6	10.73	0.02	2.51	49.5	4.55	0.36	2.22	55.4
60	1.34	0.39	0.79	41.1	9.55	0.01	2.30	54.5	4.09	0.28	1.94	60.3
70	1.29	0.37	0.73	45.3	8.00	0.01	2.07	59.0	3.56	0.22	1.75	64.7
80	1.24	0.34	0.68	49.2	7.36	0.01	1.90	63.0	3.15	0.17	1.59	68.6
90	1.14	0.31	0.64	52.9	7.00	0.01	1.76	66.8	2.83	0.09	1.40	72.1
120	0.97	0.27	0.55	62.8	5.86	0.01	1.48	76.7	2.33	0.03	1.10	80.8
150	0.86	0.22	0.48	71.4	4.41	0.01	1.09	84.5	1.96	0.03	0.83	87.6
180	0.63	0.19	0.41	78.9	3.32	0.01	0.70	90.1	1.64	0.02	0.64	92.7
210	0.51	0.14	0.29	84.6	3.14	0.00	0.49	93.6	1.06	0.02	0.38	96.1
240	0.43	0.10	0.24	89.0	2.92	0.00	0.35	96.2	0.71	0.01	0.20	98.1
270	0.35	0.08	0.20	92.7	2.68	0.00	0.25	98.0	0.45	0.01	0.11	99.1
300	0.33	0.00	0.17	95.9	1.81	0.00	0.16	99.4	0.13	0.01	0.04	99.7
330	0.26	0.00	0.12	98.2	0.23	0.00	0.04	99.8	0.05	0.01	0.02	99.9
360	0.16	0.00	0.08	99.8	0.11	0.00	0.02	100.0	0.03	0.00	0.01	100.0

FLOW DURATION AT DAM SITES(4/9)

Dam:	TIMKIT (NO.10)				TADIGHOUST (NO.11)				TIOUZAGUINE (NO.12)			
B.Area:	592 km^2				2,239 km^2				258 km^2			
Period:	1976-1995				1977-1996				1977-1997			
Order			Ave.	Cumu.			Ave.	Cumu.			Ave.	Cumu.
day	Max.	Min.	0.68	%	Max.	Min.	1.16	%	Max.	Min.	0.13	%
Max.	57.18	0.77	16.32	7	451.62	2.06	77.77	18	41.85	0.34	9.51	20
95d	1.70	0.21	0.75	50	4.90	0.00	0.63	83	0.27	0.00	0.03	90
185d	1.48	0.11	0.56	73	1.99	0.00	0.33	93	0.27	0.00	0.02	95
275d	1.43	0.05	0.39	91	1.21	0.00	0.17	98	0.06	0.00	0.01	99
355d	0.78	0.00	0.16	99	0.21	0.00	0.03	100	0.03	0.00	0.00	100
1	57.18	0.77	16.32	6.6	451.62	2.06	77.77	18.3	41.85	0.34	9.51	20.1
2	34.49	0.49	8.83	10.2	187.14	1.69	39.62	27.6	21.36	0.15	5.37	31.5
3	25.72	0.47	5.16	12.2	123.17	0.98	28.94	34.4	19.41	0.13	4.05	40.1
4	12.90	0.46	3.27	13.6	96.43	0.18	18.45	38.7	19.41	0.03	3.04	46.5
5	12.57	0.46	2.59	14.6	52.90	0.00	14.90	42.2	17.69	0.03	2.45	51.7
6	6.75	0.44	1.99	15.4	50.03	0.00	13.08	45.3	16.61	0.02	1.92	55.8
7	6.70	0.40	1.89	16.2	44.40	0.00	11.18	47.9	16.07	0.01	1.64	59.3
8	6.25	0.40	1.74	16.9	27.40	0.00	8.44	49.9	14.67	0.01	1.29	62.0
9	5.82	0.40	1.53	17.5	24.92	0.00	7.83	51.7	13.27	0.01	1.12	64.4
10	3.82	0.40	1.40	18.1	22.63	0.00	6.41	53.2	12.08	0.01	0.99	66.4
11	3.20	0.40	1.35	18.6	20.53	0.00	5.55	54.5	11.00	0.01	0.86	68.3
12	3.18	0.40	1.32	19.1	18.71	0.00	4.97	55.7	10.01	0.01	0.79	69.9
13	3.09	0.40	1.31	19.7	17.00	0.00	4.54	56.8	9.10	0.01	0.71	71.4
14	3.06	0.40	1.29	20.2	15.47	0.00	4.08	57.7	8.28	0.01	0.64	72.8
15	3.04	0.40	1.27	20.7	14.04	0.00	3.86	58.6	7.53	0.00	0.58	74.0
16	2.79	0.40	1.24	21.2	12.70	0.00	3.60	59.5	6.85	0.00	0.53	75.1
17	2.35	0.40	1.19	21.7	12.41	0.00	3.41	60.3	6.23	0.00	0.48	76.2
18	2.35	0.39	1.17	22.2	12.22	0.00	3.13	61.0	5.67	0.00	0.45	77.1
19	2.35	0.39	1.15	22.6	11.84	0.00	2.98	61.7	5.16	0.00	0.41	78.0
20	2.35	0.38	1.12	23.1	11.84	0.00	2.80	62.4	4.69	0.00	0.37	78.8
21	2.35	0.38	1.11	23.5	11.65	0.00	2.65	63.0	4.26	0.00	0.34	79.5
22	2.29	0.38	1.09	24.0	11.55	0.00	2.49	63.6	3.88	0.00	0.31	80.1
23	2.18	0.38	1.07	24.4	11.08	0.00	2.38	64.1	3.53	0.00	0.28	80.7
24	2.11	0.38	1.06	24.8	10.88	0.00	2.28	64.7	3.21	0.00	0.25	81.3
25	2.07	0.37	1.04	25.3	10.79	0.00	2.20	65.2	2.92	0.00	0.23	81.7
26	2.07	0.37	1.03	25.7	10.31	0.00	2.10	65.7	2.65	0.00	0.20	82.2
27	2.07	0.36	1.02	26.1	9.93	0.00	2.00	66.2	2.42	0.00	0.19	82.6
28	2.07	0.36	1.02	26.5	9.93	0.00	1.95	66.6	2.20	0.00	0.18	82.9
29	2.07	0.36	1.01	26.9	9.83	0.00	1.86	67.1	2.00	0.00	0.16	83.3
30	2.07	0.34	1.01	27.3	9.39	0.00	1.80	67.5	1.81	0.00	0.15	83.6
40	2.07	0.30	0.95	31.2	7.22	0.00	1.31	71.0	0.36	0.00	0.06	85.5
50	2.05	0.29	0.90	35.0	6.51	0.00	1.13	73.8	0.34	0.00	0.05	86.6
60	1.91	0.27	0.86	38.5	6.28	0.00	0.98	76.2	0.33	0.00	0.04	87.5
70	1.91	0.25	0.83	41.9	5.72	0.00	0.84	78.3	0.31	0.00	0.04	88.3
80	1.73	0.23	0.80	45.2	5.46	0.00	0.75	80.2	0.28	0.00	0.03	89.1
90	1.70	0.22	0.77	48.4	5.14	0.00	0.67	81.8	0.27	0.00	0.03	89.8
120	1.59	0.19	0.69	57.1	4.00	0.00	0.53	86.0	0.27	0.00	0.03	91.8
150	1.53	0.16	0.62	65.0	3.13	0.00	0.44	89.4	0.27	0.00	0.03	93.5
180	1.48	0.12	0.56	72.1	2.21	0.00	0.36	92.3	0.27	0.00	0.02	95.0
210	1.48	0.10	0.52	78.7	1.79	0.00	0.30	94.5	0.27	0.00	0.02	96.5
240	1.44	0.08	0.47	84.7	1.53	0.00	0.22	96.4	0.25	0.00	0.02	97.8
270	1.43	0.06	0.40	89.9	1.23	0.00	0.18	97.8	0.07	0.00	0.01	98.7
300	0.91	0.04	0.31	94.2	1.13	0.00	0.13	98.9	0.03	0.00	0.01	99.3
330	0.81	0.00	0.23	97.5	0.88	0.00	0.09	99.7	0.03	0.00	0.01	99.7
360	0.75	0.00	0.13	99.8	0.21	0.00	0.02	100.0	0.03	0.00	0.00	100.0

FLOW DURATION AT DAM SITES(5/9)

Dam:	KHENG GROU (NO.13)				ADAROUCH (NO.14)				SIDI OMAR (NO.15)			
B.Area:	4,900 km^2				630 km^2				350 km^2			
Period:	1972-1991				1977-1986				1978-1996			
Order			Ave.	Cumu.			Ave.	Cumu.			Ave.	Cumu.
day	Max.	Min.	2.08	%	Max.	Min.	1.87	%	Max.	Min.	0.88	%
Max.	873.45	14.51	221.92	29	14.77	3.98	9.81	1	148.94	0.00	35.87	11
95d	1.22	0.09	0.34	94	4.51	0.00	2.06	48	1.67	0.00	0.43	90
185d	1.03	0.06	0.23	97	3.62	0.00	1.57	72	1.11	0.00	0.17	98
275d	0.82	0.02	0.15	99	2.66	0.00	1.21	90	0.14	0.00	0.01	100
355d	0.09	0.00	0.03	100	0.00	0.00	0.00	100	0.00	0.00	0.00	100
1	873.45	14.51	221.92	29.2	14.77	3.98	9.81	1.4	148.94	0.00	35.87	11.2
2	586.15	6.37	126.70	45.9	14.10	3.71	8.94	2.7	125.53	0.00	28.32	20.0
3	552.95	1.67	77.69	56.1	13.00	3.55	8.49	4.0	115.96	0.00	22.98	27.1
4	347.94	0.77	51.60	62.9	12.60	2.48	7.71	5.1	105.11	0.00	18.62	32.9
5	192.02	0.57	35.94	67.6	12.02	2.22	6.99	6.1	97.02	0.00	15.86	37.8
6	151.59	0.46	27.16	71.2	11.71	2.07	6.73	7.1	79.04	0.00	12.90	41.8
7	147.26	0.39	21.69	74.0	11.33	2.00	6.52	8.1	77.13	0.00	10.63	45.1
8	64.97	0.39	15.68	76.1	10.97	1.97	6.10	9.0	58.72	0.00	8.95	47.9
9	51.04	0.38	13.53	77.9	10.05	1.69	5.78	9.8	48.72	0.00	7.42	50.2
10	50.31	0.37	11.62	79.4	9.79	1.02	5.41	10.6	48.51	0.00	7.02	52.4
11	33.86	0.36	9.15	80.6	9.38	0.99	5.22	11.4	44.04	0.00	6.41	54.4
12	31.18	0.32	8.02	81.7	9.34	0.72	5.09	12.1	42.45	0.00	6.08	56.3
13	31.11	0.26	7.70	82.7	9.05	0.63	4.93	12.8	40.53	0.00	5.81	58.1
14	30.61	0.26	6.24	83.5	9.03	0.36	4.69	13.5	37.66	0.00	5.49	59.8
15	29.60	0.25	5.57	84.2	8.94	0.00	4.55	14.2	36.91	0.00	5.36	61.5
16	25.05	0.22	4.43	84.8	8.91	0.00	4.53	14.8	26.60	0.00	4.64	62.9
17	18.34	0.22	3.79	85.3	8.80	0.00	4.49	15.5	22.98	0.00	4.34	64.3
18	15.81	0.22	3.17	85.7	8.58	0.00	4.39	16.1	22.23	0.00	3.99	65.5
19	13.43	0.22	2.90	86.1	8.47	0.00	4.25	16.8	21.70	0.00	3.80	66.7
20	12.99	0.21	2.72	86.5	8.38	0.00	4.14	17.4	19.89	0.00	3.59	67.8
21	10.90	0.20	2.37	86.8	8.29	0.00	4.09	18.0	18.83	0.00	3.31	68.8
22	9.82	0.18	2.12	87.1	8.29	0.00	4.04	18.6	18.72	0.00	3.07	69.8
23	9.60	0.17	2.06	87.3	8.22	0.00	3.98	19.1	16.49	0.00	2.89	70.7
24	9.24	0.17	1.92	87.6	8.04	0.00	3.88	19.7	14.04	0.00	2.52	71.5
25	8.23	0.17	1.75	87.8	7.91	0.00	3.84	20.3	13.51	0.00	2.20	72.1
26	8.01	0.15	1.63	88.0	7.86	0.00	3.75	20.8	13.40	0.00	2.11	72.8
27	7.58	0.14	1.59	88.3	7.80	0.00	3.70	21.4	13.40	0.00	2.08	73.4
28	6.35	0.13	1.43	88.4	7.69	0.00	3.65	21.9	11.49	0.00	1.91	74.0
29	6.28	0.13	1.36	88.6	7.64	0.00	3.60	22.4	9.98	0.00	1.76	74.6
30	5.92	0.13	1.28	88.8	7.46	0.00	3.56	22.9	8.60	0.00	1.63	75.1
40	3.70	0.13	0.87	90.1	6.93	0.00	3.22	27.8	5.11	0.00	1.16	79.3
50	1.96	0.12	0.62	91.1	6.68	0.00	3.01	32.4	2.14	0.00	0.83	82.2
60	1.34	0.12	0.51	91.8	6.28	0.00	2.68	36.6	1.93	0.00	0.69	84.6
70	1.27	0.11	0.43	92.5	5.32	0.00	2.43	40.3	1.83	0.00	0.58	86.5
80	1.22	0.10	0.38	93.0	4.98	0.00	2.25	43.6	1.76	0.00	0.51	88.2
90	1.22	0.09	0.35	93.5	4.62	0.00	2.11	46.8	1.71	0.00	0.46	89.7
120	1.13	0.08	0.29	94.7	4.20	0.00	1.85	55.5	1.51	0.00	0.32	93.2
150	1.12	0.07	0.26	95.8	4.00	0.00	1.71	63.3	1.31	0.00	0.24	95.8
180	1.03	0.06	0.23	96.7	3.66	0.00	1.58	70.5	1.16	0.00	0.18	97.7
210	0.99	0.03	0.20	97.6	3.35	0.00	1.47	77.2	1.03	0.00	0.10	98.9
240	0.95	0.03	0.19	98.3	3.11	0.00	1.38	83.4	0.57	0.00	0.05	99.7
270	0.84	0.03	0.16	99.0	2.73	0.00	1.24	89.2	0.16	0.00	0.01	99.9
300	0.77	0.01	0.10	99.5	2.19	0.00	1.06	94.2	0.09	0.00	0.01	100.0
330	0.47	0.00	0.07	99.8	1.91	0.00	0.91	98.5	0.03	0.00	0.00	100.0
360	0.05	0.00	0.02	100.0	0.00	0.00	0.00	100.0	0.00	0.00	0.00	100.0

FLOW DURATION AT DAM SITES(6/9)

Dam:	TIOUINE (NO.16)				AZGHAR (NO.17)				BOUKARKOUR(No.18)			
B.Area:	1,540 km^2				295 km^2				1120 km^2			
Period:	1977-1996				1984-1995				1977-1996			
Order			Ave.	Cumu.			Ave.	Cumu.			Ave.	Cumu.
day	Max.	Min.	3.06	%	Max.	Min.	1.23	%	Max.	Min.	1.06	%
Max.	322.01	2.79	115.75	10	78.81	6.74	33.02	7	184.82	1.40	71.60	18
95d	8.09	0.07	2.03	87	3.13	0.17	0.91	89	1.44	0.01	0.25	93
185d	2.20	0.03	0.57	97	0.63	0.05	0.19	97	0.79	0.00	0.13	97
275d	0.74	0.00	0.14	99	0.07	0.02	0.05	99	0.30	0.00	0.06	99
355d	0.13	0.00	0.03	100	0.03	0.00	0.02	100	0.14	0.00	0.02	100
1	322.01	2.79	115.75	10.3	78.81	6.74	33.02	7.3	184.82	1.40	71.60	18.4
2	207.40	1.77	65.06	16.1	62.08	6.43	24.62	12.8	131.78	0.35	39.51	28.5
3	144.63	1.77	50.99	20.7	40.82	4.05	19.55	17.1	121.43	0.34	29.36	36.0
4	112.79	1.76	40.36	24.3	36.02	4.04	17.56	21.0	101.83	0.28	23.50	42.1
5	103.70	1.69	35.31	27.5	25.80	3.91	14.70	24.2	77.99	0.24	19.19	47.0
6	100.97	1.25	31.17	30.2	24.57	3.71	13.44	27.2	77.44	0.23	15.57	51.0
7	99.15	1.05	28.51	32.8	22.98	3.47	11.94	29.8	77.25	0.20	14.52	54.7
8	98.24	1.02	26.73	35.2	22.32	3.28	11.15	32.3	74.67	0.16	13.37	58.2
9	98.24	0.99	25.29	37.4	18.27	3.25	10.07	34.5	58.77	0.15	11.58	61.1
10	93.69	0.45	23.71	39.5	18.14	2.82	9.29	36.6	44.54	0.14	9.35	63.5
11	90.96	0.44	22.39	41.5	17.22	2.55	8.65	38.5	33.82	0.11	7.94	65.6
12	89.42	0.44	21.12	43.4	15.63	2.50	7.83	40.2	32.53	0.10	7.07	67.4
13	78.59	0.43	19.71	45.2	15.01	2.41	7.44	41.9	32.53	0.08	6.64	69.1
14	76.04	0.42	18.46	46.8	14.79	2.31	7.07	43.5	31.05	0.07	6.16	70.7
15	65.95	0.41	16.98	48.4	14.79	2.28	6.93	45.0	27.17	0.06	5.40	72.0
16	65.77	0.41	16.10	49.8	13.87	2.27	6.65	46.5	26.61	0.06	5.10	73.4
17	58.13	0.40	14.92	51.1	13.61	2.03	6.41	47.9	25.32	0.05	4.53	74.5
18	57.85	0.39	14.40	52.4	12.06	1.88	5.94	49.2	24.77	0.05	4.26	75.6
19	57.49	0.38	13.53	53.6	11.80	1.85	5.66	50.5	23.29	0.05	3.94	76.6
20	54.76	0.38	12.78	54.8	11.36	1.84	5.43	51.7	22.92	0.05	3.82	77.6
21	54.58	0.37	12.46	55.9	11.23	1.65	5.15	52.8	21.07	0.04	3.57	78.5
22	46.85	0.37	11.75	56.9	10.96	1.45	4.87	53.9	20.88	0.04	3.41	79.4
23	46.48	0.36	11.31	57.9	10.39	1.43	4.65	54.9	20.51	0.04	3.26	80.2
24	45.94	0.35	10.81	58.9	10.35	1.33	4.48	55.9	15.88	0.04	2.83	81.0
25	39.30	0.34	10.19	59.8	9.82	1.33	4.29	56.8	14.43	0.04	2.50	81.6
26	38.93	0.34	9.80	60.7	9.47	1.10	4.13	57.8	12.77	0.03	2.24	82.2
27	38.75	0.34	9.64	61.5	9.33	1.09	4.01	58.6	10.55	0.03	1.99	82.7
28	36.11	0.33	9.23	62.4	9.29	0.96	3.88	59.5	10.55	0.03	1.89	83.2
29	36.11	0.33	8.89	63.2	9.25	0.96	3.77	60.3	9.04	0.03	1.74	83.6
30	35.48	0.32	8.54	63.9	9.20	0.93	3.68	61.2	8.91	0.03	1.64	84.0
40	23.20	0.28	6.06	70.3	7.84	0.72	2.96	68.4	3.97	0.02	0.91	87.1
50	18.83	0.14	4.73	74.9	6.82	0.52	2.31	74.1	3.16	0.02	0.59	88.9
60	16.46	0.12	3.87	78.7	5.94	0.43	1.80	78.6	2.48	0.01	0.45	90.2
70	13.83	0.09	3.16	81.8	4.80	0.36	1.45	82.1	2.11	0.01	0.36	91.2
80	10.82	0.07	2.65	84.4	4.25	0.29	1.21	85.1	1.78	0.01	0.31	92.1
90	8.47	0.07	2.16	86.4	3.43	0.21	1.00	87.5	1.54	0.01	0.27	92.8
120	6.31	0.05	1.47	91.2	2.20	0.09	0.57	92.4	0.94	0.00	0.19	94.5
150	4.91	0.04	1.02	94.5	1.28	0.06	0.33	95.3	0.84	0.00	0.16	95.8
180	2.47	0.03	0.65	96.7	0.73	0.05	0.21	97.1	0.81	0.00	0.14	96.9
210	1.23	0.03	0.39	98.0	0.33	0.04	0.13	98.2	0.66	0.00	0.11	97.9
240	0.94	0.01	0.26	98.9	0.17	0.04	0.08	98.9	0.44	0.00	0.08	98.6
270	0.79	0.01	0.16	99.4	0.08	0.02	0.05	99.3	0.30	0.00	0.06	99.1
300	0.57	0.00	0.09	99.7	0.06	0.01	0.04	99.6	0.26	0.00	0.05	99.6
330	0.17	0.00	0.05	99.9	0.06	0.01	0.03	99.8	0.14	0.00	0.03	99.8
360	0.13	0.00	0.02	100.0	0.03	0.00	0.02	100.0	0.13	0.00	0.02	100.0

FLOW DURATION AT DAM SITES(7/9)

Dam:	AOULAI (NO.19)				SIDI ABBOU (NO.20)				S.EL MOKHFI (NO.21)			
B.Area:	490 km^2				295 km^2				378 km^2			
Period:	1976-1995				1986-1995				1983-1995			
Order			Ave.	Cumu.			Ave.	Cumu.			Ave.	Cumu.
day	Max.	Min.	5.62	%	Max.	Min.	1.10	%	Max.	Min.	5.74	%
Max.	373.55	17.75	143.89	7	84.17	5.37	40.38	10	279.20	9.11	142.07	7
95d	12.92	0.31	4.23	89	2.01	0.03	0.63	90	9.54	0.03	4.29	86
185d	2.14	0.11	0.85	98	0.43	0.02	0.16	98	2.79	0.01	1.17	97
275d	0.33	0.00	0.13	100	0.09	0.00	0.03	100	0.96	0.00	0.25	99
355d	0.11	0.00	0.02	100	0.01	0.00	0.00	100	0.31	0.00	0.04	100
1	373.55	17.75	143.89	7.0	84.17	5.37	40.38	10.0	279.20	9.11	142.07	6.8
2	300.36	15.02	106.17	12.2	74.15	2.66	29.39	17.3	242.26	2.95	114.55	12.2
3	237.36	2.98	87.66	16.4	59.32	1.24	23.16	23.1	174.40	2.40	90.54	16.5
4	180.09	2.32	75.17	20.1	48.10	1.05	18.43	27.6	174.40	1.12	78.12	20.3
5	161.64	1.15	62.19	23.1	37.36	0.94	14.84	31.3	143.47	1.01	62.59	23.2
6	140.64	0.69	57.21	25.9	35.63	0.74	13.02	34.6	118.55	0.92	56.44	25.9
7	138.73	0.67	52.48	28.4	32.71	0.67	11.61	37.4	118.55	0.79	53.32	28.5
8	121.55	0.66	47.88	30.8	28.18	0.53	10.38	40.0	109.10	0.77	47.96	30.7
9	112.64	0.61	44.43	32.9	26.41	0.49	9.30	42.3	94.50	0.60	43.20	32.8
10	106.27	0.55	40.91	34.9	26.13	0.38	8.37	44.4	86.77	0.48	40.21	34.7
11	100.55	0.55	37.74	36.8	24.57	0.37	7.76	46.3	84.53	0.35	38.29	36.5
12	98.64	0.55	36.40	38.5	24.33	0.33	7.47	48.2	81.01	0.34	35.47	38.2
13	85.91	0.53	33.70	40.2	24.29	0.33	7.14	50.0	78.26	0.34	34.20	39.9
14	84.64	0.49	32.35	41.7	23.49	0.30	6.66	51.6	72.59	0.34	31.78	41.4
15	82.09	0.47	31.22	43.3	20.00	0.26	6.17	53.2	72.16	0.32	30.46	42.8
16	81.45	0.46	29.93	44.7	19.04	0.26	5.96	54.6	70.62	0.31	29.34	44.2
17	78.91	0.46	28.70	46.1	17.84	0.26	5.69	56.0	69.50	0.29	27.73	45.5
18	78.91	0.45	27.60	47.4	16.15	0.22	5.33	57.4	65.46	0.28	26.60	46.8
19	73.18	0.45	26.10	48.7	14.63	0.21	5.00	58.6	64.43	0.28	25.74	48.0
20	73.18	0.45	25.18	49.9	13.87	0.18	4.76	59.8	61.51	0.27	24.55	49.2
21	71.91	0.45	24.60	51.1	12.43	0.18	4.46	60.9	60.91	0.26	23.75	50.3
22	67.45	0.45	23.62	52.3	11.62	0.16	4.26	62.0	60.65	0.26	23.02	51.4
23	64.91	0.45	22.71	53.4	11.54	0.15	4.12	63.0	57.65	0.25	21.94	52.5
24	64.91	0.45	22.09	54.5	11.38	0.14	3.96	64.0	57.47	0.25	21.26	53.5
25	61.66	0.44	21.45	55.5	11.10	0.14	3.85	64.9	57.13	0.23	20.76	54.5
26	61.03	0.44	20.78	56.5	10.54	0.12	3.71	65.8	55.93	0.23	20.34	55.4
27	58.67	0.43	20.16	57.5	9.90	0.12	3.59	66.7	52.58	0.23	19.69	56.4
28	58.67	0.43	19.86	58.5	9.10	0.12	3.41	67.6	52.58	0.22	19.36	57.3
29	58.67	0.43	19.26	59.4	8.90	0.10	3.22	68.4	52.23	0.21	18.95	58.2
30	56.95	0.43	18.71	60.3	8.58	0.10	3.16	69.2	51.55	0.21	18.13	59.1
40	40.60	0.42	13.94	68.0	5.57	0.07	1.97	75.3	35.74	0.17	13.77	66.5
50	31.88	0.42	10.78	73.9	4.37	0.06	1.52	79.6	26.55	0.14	10.63	72.2
60	22.40	0.40	8.55	78.5	3.16	0.05	1.17	82.9	19.59	0.11	8.06	76.6
70	19.35	0.35	6.99	82.2	2.31	0.04	0.95	85.5	14.52	0.08	6.42	80.1
80	16.74	0.35	5.67	85.2	2.18	0.03	0.81	87.6	11.34	0.06	5.40	82.8
90	13.36	0.34	4.58	87.7	2.08	0.03	0.69	89.5	10.05	0.04	4.64	85.2
120	7.83	0.28	2.78	92.9	1.60	0.03	0.43	93.5	6.83	0.02	3.20	90.6
150	3.75	0.20	1.64	96.1	0.81	0.03	0.27	96.0	4.18	0.01	2.04	94.3
180	2.27	0.12	0.93	97.9	0.46	0.02	0.17	97.6	2.94	0.01	1.25	96.6
210	1.54	0.03	0.50	98.9	0.30	0.02	0.11	98.7	2.02	0.01	0.75	98.1
240	0.87	0.01	0.27	99.4	0.15	0.00	0.06	99.3	1.16	0.00	0.48	98.9
270	0.37	0.00	0.15	99.7	0.09	0.00	0.04	99.6	0.96	0.00	0.26	99.4
300	0.25	0.00	0.08	99.9	0.07	0.00	0.02	99.9	0.82	0.00	0.18	99.7
330	0.11	0.00	0.04	100.0	0.02	0.00	0.01	100.0	0.40	0.00	0.08	99.9
360	0.11	0.00	0.02	100.0	0.01	0.00	0.00	100.0	0.31	0.00	0.03	100.0

FLOW DURATION AT DAM SITES(8/9)

Dam:	N'OUANTZ (NO.22)				IGUI N'OUAQA(NO.23)				AMONT ABDEL.(NO.24)			
B.Area:	204 km^2				161 km^2				938 km^2			
Period:	1977-1996				1978-1997				1980-1996			
Order			Ave.	Cumu.			Ave.	Cumu.			Ave.	Cumu.
day	Max.	Min.	3.99	%	Max.	Min.	0.26	%	Max.	Min.	1.89	%
Max.	130.00	7.01	44.43	3	78.15	0.22	15.53	16	324.56	2.06	68.52	10
95d	13.80	0.75	4.56	67	0.67	0.00	0.14	92	6.83	0.00	1.68	84
185d	6.77	0.52	2.08	86	0.16	0.00	0.03	99	2.17	0.00	0.55	97
275d	2.32	0.29	1.06	95	0.03	0.00	0.00	100	0.26	0.00	0.03	100
355d	1.30	0.03	0.65	100	0.00	0.00	0.00	100	0.00	0.00	0.00	100
1	130.00	7.01	44.43	3.0	78.15	0.22	15.53	16.1	324.56	2.06	68.52	9.9
2	71.20	5.96	32.90	5.3	23.21	0.15	7.04	23.4	88.82	1.02	31.61	14.5
3	66.50	5.26	27.57	7.2	16.70	0.10	4.93	28.5	72.13	0.54	24.94	18.1
4	65.20	3.67	24.39	8.8	13.79	0.07	3.94	32.6	67.65	0.52	19.02	20.8
5	64.90	3.55	22.54	10.4	12.95	0.05	3.43	36.2	62.51	0.44	16.79	23.3
6	60.60	3.46	20.90	11.8	11.57	0.05	2.91	39.2	62.34	0.34	16.06	25.6
7	58.60	3.37	20.17	13.2	8.12	0.05	2.51	41.8	55.78	0.34	14.19	27.6
8	56.50	2.94	19.28	14.5	6.61	0.03	2.13	44.0	52.05	0.33	12.96	29.5
9	45.60	2.92	18.13	15.8	6.41	0.02	1.97	46.0	48.23	0.27	12.33	31.3
10	44.50	2.77	17.40	16.9	5.60	0.02	1.82	47.9	48.23	0.26	11.78	33.0
11	44.20	2.71	16.60	18.1	5.10	0.01	1.67	49.7	47.56	0.24	11.22	34.6
12	44.00	2.69	16.12	19.2	4.93	0.01	1.55	51.3	47.40	0.24	10.84	36.2
13	42.30	2.69	15.72	20.3	4.86	0.01	1.45	52.8	46.24	0.21	10.25	37.7
14	42.30	2.69	15.49	21.3	4.23	0.01	1.35	54.2	44.74	0.21	9.76	39.1
15	42.20	2.69	15.04	22.4	3.72	0.01	1.26	55.5	44.58	0.21	9.67	40.5
16	42.00	2.59	14.68	23.4	3.25	0.01	1.18	56.7	42.50	0.17	9.36	41.8
17	40.20	2.42	14.40	24.3	3.23	0.00	1.10	57.9	41.42	0.17	9.07	43.1
18	39.80	2.34	14.11	25.3	3.21	0.00	1.07	59.0	40.43	0.16	8.76	44.4
19	39.40	2.34	13.71	26.2	3.07	0.00	1.03	60.0	38.18	0.15	8.43	45.6
20	38.90	2.33	13.52	27.2	2.99	0.00	1.00	61.1	38.18	0.13	8.09	46.8
21	38.80	2.26	13.29	28.1	2.96	0.00	0.97	62.1	34.95	0.11	7.71	47.9
22	38.20	2.23	13.05	29.0	2.74	0.00	0.94	63.1	32.46	0.11	7.33	49.0
23	35.90	2.16	12.60	29.8	2.59	0.00	0.90	64.0	32.46	0.09	7.16	50.0
24	35.10	2.02	12.41	30.7	2.57	0.00	0.87	64.9	30.88	0.06	6.94	51.0
25	35.00	1.96	12.14	31.5	2.36	0.00	0.83	65.8	27.97	0.06	6.56	51.9
26	35.00	1.85	11.77	32.3	2.08	0.00	0.80	66.6	27.64	0.06	6.45	52.9
27	34.70	1.83	11.51	33.1	1.96	0.00	0.77	67.4	26.15	0.06	6.19	53.8
28	34.70	1.82	11.38	33.9	1.89	0.00	0.75	68.2	26.06	0.06	5.98	54.6
29	34.70	1.71	11.24	34.7	1.76	0.00	0.73	68.9	25.82	0.06	5.82	55.5
30	34.10	1.71	11.04	35.4	1.75	0.00	0.70	69.7	25.65	0.06	5.74	56.3
40	28.50	1.55	9.40	42.3	1.53	0.00	0.55	76.0	19.34	0.01	4.41	63.5
50	23.40	1.40	8.03	48.3	1.36	0.00	0.41	80.9	14.03	0.01	3.29	68.9
60	21.60	1.18	7.21	53.4	1.24	0.00	0.31	84.5	10.79	0.00	2.73	73.2
70	16.80	0.96	6.17	58.0	1.05	0.00	0.25	87.4	8.96	0.00	2.31	76.8
80	14.70	0.83	5.38	61.9	0.86	0.00	0.19	89.6	7.74	0.00	2.01	79.8
90	13.90	0.75	4.78	65.3	0.70	0.00	0.15	91.4	6.95	0.00	1.80	82.6
120	11.20	0.66	3.47	73.7	0.48	0.00	0.09	94.9	4.29	0.00	1.18	88.8
150	9.07	0.59	2.72	79.9	0.27	0.00	0.05	97.1	3.00	0.00	0.82	93.1
180	7.69	0.54	2.22	85.0	0.19	0.00	0.03	98.5	2.28	0.00	0.59	96.2
210	4.31	0.52	1.70	88.9	0.08	0.00	0.02	99.2	1.78	0.00	0.37	98.2
240	2.92	0.46	1.39	92.1	0.04	0.00	0.01	99.5	1.26	0.00	0.19	99.5
270	2.51	0.32	1.10	94.6	0.04	0.00	0.01	99.8	0.28	0.00	0.05	99.9
300	1.86	0.16	0.92	96.7	0.02	0.00	0.00	99.9	0.10	0.00	0.01	100.0
330	1.46	0.10	0.76	98.4	0.00	0.00	0.00	100.0	0.01	0.00	0.00	100.0
360	1.29	0.01	0.60	99.8	0.00	0.00	0.00	100.0	0.00	0.00	0.00	100.0

FLOW-DURATION AT DAM SITES (9/9)

Dam: **SIDI ABDELLAH(No.25)**
B.Area: 233 km^2
Period: 1978-1997

Order day	Max.	Min.	Ave. 0.38	Cumu. %
Max.	113.10	0.31	22.47	16
95d	0.97	0.00	0.20	92
185d	0.23	0.00	0.04	99
275d	0.04	0.00	0.01	100
355d	0.01	0.00	0.00	100
1	113.10	0.31	22.47	16.1
2	33.59	0.21	10.19	23.4
3	24.17	0.15	7.14	28.5
4	19.95	0.10	5.71	32.6
5	18.74	0.08	4.96	36.2
6	16.75	0.07	4.21	39.2
7	11.75	0.07	3.63	41.8
8	9.56	0.05	3.08	44.0
9	9.27	0.03	2.86	46.0
10	8.11	0.02	2.63	47.9
11	7.38	0.02	2.42	49.7
12	7.14	0.01	2.25	51.3
13	7.04	0.01	2.10	52.8
14	6.12	0.01	1.96	54.2
15	5.39	0.01	1.83	55.5
16	4.71	0.01	1.70	56.7
17	4.67	0.01	1.59	57.9
18	4.65	0.01	1.55	59.0
19	4.44	0.01	1.50	60.0
20	4.32	0.00	1.45	61.1
21	4.29	0.00	1.40	62.1
22	3.97	0.00	1.36	63.1
23	3.75	0.00	1.31	64.0
24	3.72	0.00	1.26	64.9
25	3.42	0.00	1.20	65.8
26	3.00	0.00	1.15	66.6
27	2.84	0.00	1.12	67.4
28	2.73	0.00	1.09	68.2
29	2.55	0.00	1.06	68.9
30	2.53	0.00	1.02	69.7
40	2.21	0.00	0.80	76.0
50	1.97	0.00	0.59	80.9
60	1.80	0.00	0.45	84.5
70	1.52	0.00	0.36	87.4
80	1.24	0.00	0.28	89.6
90	1.01	0.00	0.22	91.4
120	0.70	0.00	0.13	94.9
150	0.39	0.00	0.08	97.1
180	0.27	0.00	0.05	98.5
210	0.11	0.00	0.02	99.2
240	0.06	0.00	0.01	99.5
270	0.05	0.00	0.01	99.8
300	0.03	0.00	0.00	99.9
330	0.01	0.00	0.00	100.0
360	0.01	0.00	0.00	100.0