

Table II4.3.1: Debits Maximums journaliers annuels aux sites de barrages (1/3)

No.1		No.2		No.3		No.4		No.5		No.6		No.7		No.8	
Year	Qmax	Year	Qmax	Year	Qmax	Year	Qmax	Year	Qmax	Year	Qmax	Year	Qmax	Year	Qmax
1989	5.25	1975	18.48	1970	16.12	1975	1.91	1975	8.02	1978	20.07	1988	2.59	1976	0.57
1990	6.08	1976	31.17	1971	17.84	1976	29.05	1976	15.25	1979	5.09	1989	8.28	1977	6.58
1991	0.71	1977	15.28	1972	14.14	1977	4.41	1977	47.77	1980	4.43	1990	5.82	1978	31.36
1992	0.45	1978	50.26	1973	14.14	1978	19.36	1978	40.45	1981	8.47	1991	13.57	1979	20.35
1993	2.94	1979	4.87	1974	8.96	1979	8.94	1979	14.36	1982	5.82	1992	1.08	1980	3.20
1994	3.91	1980	4.21	1975	25.04	1980	1.69	1980	7.67	1983	24.60	1993	4.81	1981	10.79
		1981	3.02	1976	11.53	1981	2.76	1981	5.54	1984	8.15	1994	2.17	1982	0.54
				1977	10.18	1982	1.39	1982	2.83	1985	12.20	1995	4.05	1983	5.52
				1978	11.07	1983	0.95	1983	6.19	1986	14.56			1984	9.46
				1979	10.60	1984	1.55	1984	31.88	1987	7.39			1985	5.27
				1980	42.92	1985	4.41	1985	9.65	1988	6.66			1986	1.68
				1981	16.50	1986	5.22	1986	29.31	1989	20.45			1987	17.24
				1982	13.17	1987	5.47	1987	31.34	1990	23.34			1988	84.62
				1983	13.55	1988	1.92	1988	10.94	1991	5.99			1989	50.41
				1984	16.03	1989	48.47	1989	28.37	1992	2.56			1990	12.49
				1985	9.09	1990	16.73	1990	12.03	1993	6.83			1991	71.40
				1986	66.07	1991	1.98	1991	10.10	1994	0.76			1992	4.99
				1987	47.97	1992	0.69	1992	2.70	1995	36.59			1993	33.17
				1988	191.05	1993	8.07	1993	11.73					1994	5.00
				1989	32.61	1994	1.16	1994	0.38						
				1990	36.99	1995	39.09	1995	30.84						
				1991	33.12			1996	49.50						
				1992	3.45										
				1993	5.81										
				1994	8.21										
				1995	30.51										
				1996	17.17										

Table II.4.3.1: Debits Maximums journaliers annuels aux sites de barrages (2/3)

No.9		No.10		No.11		No.12		No.13		No.14		No.15		No.19	
Year	Qmax	Year	Qmax	Year	Qmax	Year	Qmax	Year	Qmax	Year	Qmax	Year	Qmax	Year	Qmax
1985	19.28	1975	3.99	1961	71.99	1961	1.80	1954	109.00	1977	12.69	1978	138.30	1951	370.36
1986	10.67	1976	3.14	1962	277.85	1962	55.76	1955	97.45	1978	14.77	1979	32.45	1952	100.55
1987	49.50	1977	7.37	1963	18.90	1963	16.50	1957	406.41	1979	10.81	1980	1.07	1953	104.36
1988	154.08	1978	2.57	1964	126.99	1964	22.87	1958	464.88	1984	6.90	1981	12.87	1954	278.73
1989	35.98	1979	53.80	1965	561.42	1965	56.30	1959	97.45	1985	9.74	1982	8.02	1956	57.91
1990	22.04	1980	1.66	1966	17.47	1966	15.32	1960	28.08	1986	3.98	1983	27.23	1958	249.45
1991	21.43	1981	4.12	1967	163.27	1967	51.99	1961	181.19			1984	13.62	1959	216.36
1992	2.96	1982	4.15	1968	33.23	1968	7.68	1962	1118.89			1985	31.49	1960	78.27
1993	11.10	1983	1.48	1969	20.15	1969	19.52	1964	280.08			1986	77.34	1961	248.18
1994	5.71	1984	2.93	1970	30.27	1970	9.19	1965	402.08			1987	23.72	1962	2990.91
1995	12.83	1985	2.84	1971	42.39	1971	0.81	1966	500.25			1988	15.00	1963	859.09
		1986	25.38	1972	65.40	1972	14.24	1967	1537.57			1990	0.92	1970	292.73
		1987	8.43	1973	5.19	1973	17.90	1968	90.23			1991	1.03	1971	106.91
		1988	57.18	1974	65.50	1974	36.46	1969	45.33			1992	0.09	1972	57.34
		1989	40.06	1975	7.42	1975	2.51	1970	618.64			1993	0.74	1973	146.36
		1990	6.50	1976	12.99	1976	4.22	1971	52.48			1994	0.00	1974	58.16
		1991	17.96	1977	28.26	1977	3.79	1972	573.88			1995	148.94	1975	85.27
		1992	0.77	1978	19.19	1978	16.07	1973	189.85			1996	112.77	1976	246.27
		1993	47.65	1979	89.37	1979	21.14	1974	617.19					1977	128.55
		1994	32.64	1980	2.06	1980	0.34	1975	48.29					1978	251.36
		1995	5.84	1981	22.92	1981	2.70	1976	141.48					1979	71.27
				1982	11.27	1982	5.50	1977	221.61					1980	49.19
				1983	2.97	1983	0.69	1978	310.40					1981	98.64
				1984	18.24	1984	6.56	1979	873.45					1982	87.18
				1985	51.85	1985	14.24	1980	24.33					1983	316.91
				1986	46.69	1986	11.43	1981	78.68					1984	136.18
				1987	37.43	1987	6.43	1982	111.17					1985	162.91
				1988	71.42	1988	10.54	1983	53.92					1986	170.55
				1989	269.25	1989	41.85	1984	61.79					1987	81.45
				1990	85.55	1990	1.27	1985	308.96					1988	77.00
				1991	20.62	1991	0.49	1986	33.35					1989	223.36
				1992	33.13	1992	3.60	1987	51.18					1990	209.36
				1993	451.62	1993	23.51	1988	40.71					1991	73.18
				1994	72.28	1994	13.48	1989	598.42					1992	26.15
				1995	211.01	1996	4.96	1990	14.51					1993	77.00
				1996	10.31	1997	1.63	1991	85.18					1994	17.75
														1995	373.55

Table II4.3.1: Debits Maximums journaliers annuels aux sites de barrages (3/3)

No.16t		No.17		No.20		No.21		No.22		No.23		No.24	
Year	Qmax	Year	Qmax	Year	Qmax	Year	Qmax	Year	Qmax	Year	Qmax	Year	Qmax
1975	6.64	1984	8.81	1986	84.17	1983	279.20	1975	37.10	1978	28.75	1980	42.70
1976	14.10	1985	43.99	1987	25.53	1984	172.68	1976	48.20	1979	6.04	1981	22.80
1977	322.01	1986	41.83	1988	25.77	1985	257.73	1977	38.60	1980	5.43	1982	4.65
1978	166.46	1987	33.11	1989	56.92	1986	267.18	1978	62.80	1981	5.13	1983	391.00
1979	70.22	1988	20.96	1990	58.12	1987	80.84	1979	24.90	1982	3.42	1984	54.30
1980	12.28	1989	55.04	1991	43.29	1988	122.85	1980	70.80	1983	78.15	1985	20.00
1981	5.08	1990	48.87	1992	5.53	1989	121.99	1981	20.60	1984	31.36	1986	14.20
1982	2.79	1991	24.04	1993	28.18	1990	182.99	1982	7.01	1986	8.42	1987	82.20
1983	78.68	1992	9.16	1994	5.37	1991	59.36	1983	13.70	1987	24.96	1988	169.00
1984	36.66	1993	24.92	1995	70.94	1992	28.78	1984	16.80	1988	21.80	1989	54.60
1985	9.37	1994	6.74			1993	71.73	1985	26.20	1989	7.92	1990	53.90
1986	92.78	1995	78.81			1994	9.11	1986	65.50	1990	10.90	1991	84.80
1987	180.11					1995	192.44	1987	84.00	1991	1.90	1992	2.48
1988	239.23							1988	57.10	1992	0.22	1993	25.00
1989	241.05							1989	42.30	1993	4.09	1994	6.83
1990	63.40							1990	37.80	1994	1.38	1995	287.00
1991	220.13							1991	30.20	1995	31.73	1996	87.90
1992	5.62							1992	17.20	1996	9.53		
1993	126.44							1993	130.00	1997	13.89		
1994	263.79							1994	29.00				
1995	97.33							1995	72.10				
1996	81.50							1996	41.90				

HT-20

Table II.4.3.2: Frequence des evenements d'inondation

Candidate dam	Flow gauging station	Number of flood days in each Year (19'-)																		Data (vrs)	Flood years		Flood days																									
		72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89		90	91		92	93	94	95	96	97	(Yrs)	(Ratio)																	
REGION-I: MOROCCO NORTH BASINS																																																
No.01: Neckor	Takenfoust																		1	2	0	0	0	2			6	3	0.50	5																		
REGION-II: SEBOU RIVER BASIN																																																
No.06: Tazarane	Tabouda						2	0	0	0	0	3	0	1	2	0	0	3	2	0	0	0	0	6			18	7	0.40	19																		
No.19: Aoulai	Rhafsaï		2	1	1	0	0	0	0	0	2	0	2	1	0	0	1	2	0	0	0	0	0	5			20	9	0.45	17																		
No.21: Sidi El Mokhfi	Galez											4	2	5	3	0	0	0	1	0	0	0	3			13	7	0.55	18																			
No.02: Tizimellal	Tamchachete			1	6	0	4	0	0	0																7	3	0.45	11																			
No.20: Sidi Abbou	Boukarkour/Tissa														4	0	0	1	2	1	0	0	0	4			10	5	0.50	12																		
No.17: Azghar	Dar Hamra											0	1	3	1	0	1	1	0	0	0	0	4			12	6	0.50	11																			
No.14: Adarouch	Sidi Mokhfi					4	9	3				0	0	0												6	3	0.50	16																			
REGION-III: BOU REGREG RIVER BASIN AND ATLANTIC COASTAL AREA OF CASABLANCA																																																
No.15: Sidi Omar	Sidi Amar						6	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	15	7			18	4	0.20	30																		
No.04: Am Kwachiya	Cheikh Reguig		8	0	9	0	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	6			20	5	0.25	27																			
No.05: Upper N'fifikh	Feddane Taba		2	8	0	0	0	0	0	0	1	0	1	1	0	1	0	0	0	0	0	0	2	2			20	8	0.40	18																		
No.18: Boukarkour	-																																															
REGION-IV: OUM ER RBIA RIVER BASIN																																																
No.22: N'ouantz	Tizi N'isly					0	9	0	1	0	0	0	0	0	1	3	2	0	0	0	0	3	0	10	0		20	7	0.35	29																		
No.03: Ait Baddou	Ait Segmine					0	0	0	3	0	0	0	0	0	1	1	4	1	1	1	0	0	0	0	0		20	7	0.35	12																		
REGION-V: TENSIFT RIVER AND ESSAOUIRA COASTAL BASINS																																																
No.07: Amez Miz	Sidi Hssain																	0	1	1	3	0	0	0	0		8	3	0.40	5																		
No.09: Taskourt	Sidi Bouathmane														0	0	3	3	1	0	0	0	0	0	0		11	3	0.25	7																		
No.08: Boulaouane	Iloudjane			0	0	2	1	0	0	0	0	0	0	0	0	0	12	3	0	2	0	1	0			19	6	0.30	21																			
REGION-VI: SOUSS, MASSA RIVER BASINS																																																
No.24: Amont Abdel.	Aguenza									0	0	0	1	0	0	0	0	2	0	0	1	0	0	3	1		17	5	0.30	8																		
No.25: Sidi Abdellah	Ait Khoratif																																															
No.23: Igui N'ouaqa	Amsoul					3	0	0	0	0	1	1			0	1	1	0	0	0	0	0	0	2	0	0	19	6	0.30	9																		
REGION-VII: GUIR, ZIZ, RHERIS AND DRAA RIVER BASINS																																																
No.12: Tiouzaguine	Tazouguert						0	3	2	0	0	0	0	0	1	1	0	1	5	0	0	0	12	1	0	0	20	8	0.40	26																		
No.13: Kheng Grou	Beni Yatti		1	0	4	0	0	0	0	0	0	0	0	1	0	0	0	2	0	0						20	6	0.30	12																			
(reference)	Tit N'Aissa					0	2	4	0	0	0	0	1	0	4	0	1	1	0	0	0	1	0	1	0	20	8	0.40	15																			
No.11: Tadighoust	Tadighoust					0	0	1	0	0	0	0	0	0	0	0	4	1	0	0	3	0	1	0		20	5	0.25	10																			
No.10: Timkit	Ait Boujjane					0	0	0	2	0	0	0	0	0	1	0	3	3	0	1	0	1	2	0		20	6	0.30	13																			
(reference)	Iffre/Ksar Timkit					0	0	0	4	0	0	0	1	0	0	0	2	1	4	0	0	0	0	0		20	5	0.25	12																			
No.16: Tiouine	Tamdrouste					3	1	0	0	0	0	0	0	0	2	3	2	0	2	0	1	1	0	0		20	8	0.40	15																			
(reference)	Agauillal					2	0	2	0	0	0	0	0	0	5	3	4	0	0	0	0	1	0	0		20	8	0.40	17																			

(Note) Flood year: The years which recorded one or more flood days.

Flood day: The day whoes daily discharge exceeds the average of annual maximum daily discharge of each station.

Table II.4.3.3: Caracteristiques des Debits de Crues

River system	Candidate dam	B.A. (km ²)	Times of consecutive F.D						Rate of consecutive F.D (%)					
			1d	2d	3d	4d	5d	>5d	1d	2d	3d	4d	5d	>5d
REGION-I: MOROCCO NORTH BASINS														
Neckor R.	No.01: Neckor	710	7	1	0	0	0	2	70	10	-	-	-	20
	(Total)		7	1	0	0	0	2	70	10	-	-	-	20
REGION-II: SEBOU RIVER BASIN														
Sebou R.														
- Ouerrha R.														
- Aoudour R.	No.06: Tazarane	30	6	5	4	0	0	0	40	33	27	-	-	-
- Aoulai R.	No.19: Aoulai	490	27	12	8	2	1	2	52	23	15	4	2	4
- Amezetz R.	No.21: Sidi El Mokhfi	378	10	2	3	1	0	0	63	13	19	6	-	-
- Mengou R.	No.02: Tizimellal	170	3	4	0	0	0	0	43	57	-	-	-	-
- Lebene R.	No.20: Sidi Abbou	363	3	7	2	0	0	0	25	58	17	-	-	-
- Zloul R.	No.17: Azghar	295	5	1	2	0	0	0	63	13	25	-	-	-
- Beht R.(Tigriga R.)	No.14: Adarouch	630	12	10	3	1	0	3	41	34	10	3	-	10
	(Total)		66	41	22	4	1	5	47	29	16	3	1	4
REGION-III: BOU REGREG RIVER BASIN AND ATLANTIC COASTAL AREA OF CASABLANCA														
Bou Regreg R.(Tabahart R.)	No.15: Sidi Omar	350	2	3	1	0	4	0	20	30	10	0	40	0
Iqem R.(Khellata R.)	No.04: Ain Kwachiya	162	10	3	1	1	1	0	63	19	6	6	6	0
Nefifikh R.	No.05: Upper N'fifikh	300	11	2	1	0	0	0	79	14	7	0	0	0
Mellah R.(Zamrine R.)	No.18: Boukarkour	1120	-	-	-	-	-	-	-	-	-	-	-	-
	(Total)		23	8	3	1	5	0	58	20	8	3	13	0
REGION-IV: OUM ER RBIA RIVER BASIN														
Oum Er Rbia R.														
- El Abid R.	No.22: N'ouantz	204	9	1	3	0	2	0	60	7	20	0	13	0
- Tessaout R.(Lakhdar R.)	No.03: Ait Baddou	194	7	1	1	0	0	0	78	11	11	0	0	0
	(Total)		16	2	4	0	2	0	67	8	17	0	8	0
REGION-V: TENSIFT RIVER AND ESSAOUIRA COASTAL BASINS														
Tensift R.														
- N'fiss R.	No.07: Amezmiz	80	2	0	1	0	0	0	67	0	33	0	0	0
- Assif el Ma R.	No.09: Taskourt	439	3	2	0	0	0	0	60	40	0	0	0	0
- El Rhira R.	No.08: Boulaouane	565	7	2	2	1	0	1	54	15	15	8	0	8
	(Total)		12	4	3	1	0	1	57	19	14	5	0	5
REGION-VI: SOUSS, MASSA RIVER BASINS														
Souss R.														
- Issen R.	No.24: Amont Abdel.	938	6	1	0	0	0	0.0	86	14	0	0	0	0
- L'ouaar R.	No.25: Sidi Abdellah	233	-	-	-	-	-	-	-	-	-	-	-	-
- Aguerd R.	No.23: Igui N'ouaqa	161	10	0	0	0	0	0.0	100	0	0	0	0	0
	(Total)		16	1	0	0	0	0	94	6	0	0	0	0
REGION-VII: GUIR, ZIZ, RHERIS AND DRAA RIVER BASINS														
Guir R.	No.12: Tiouzaguine	256	30	6	0	0	0	1	81	16	0	0	0	3
- Bouanane R.	No.13: Kheng Grou	4900	13	5	2	0	0	0	65	25	10	0	0	0
Rheris R.	No.11: Tadighoust	2239	9	2	3	0	0	0	64	14	21	0	0	0
- Ferklo R.	No.10: Timkit	592	9	2	0	0	0	0	82	18	0	0	0	0
Draa R.	No.16: Tiouine	1540	13	1	0	0	0	0	93	7	0	0	0	0
	(Total)		74	16	5	0	0	1	77	17	5	0	0	1
	(GRAND TOTAL)		214	73	37	6	8	9	62	21	11	2	2	3

(Note) B.A.: Basin area at dam site.
F.D: Flood daya

Table II4.4.1: Effets de controles des barrages sur l'inondation et l'envasement

River system	Name of dam	BA (km ²)	Extent of effects			Effects of dam	
			Length/ Lower end	River conditions	Flood reduction	Channel stabiliz	Reduction of reservoir sedimentation
1. MOROCCO NORTH BASINS							
Neckor R.	No.01: Neckor	710	4km/El Khattabi dam	Mountain river with thick sediment deposit	None	None	El Kattabi dam
2. SEBOU RIVER BASIN							
Sebou R.							
- Ouerrha R.							
- Aoudour R.	No.06: Tazarane	30	10km/Aoudour R. jct.	Mountain rivers w/o plain	None	None	Negligible effect to Al Wahda dam
- Aoulai R.	No.19: Aoulai	490	47km/Ouegha R. jct.	Mountain river w/o plain; i=1/360	None	None	Al Wahda dam
- Amezetz R.	No.21: Sidi El Mokhfi	378	22km/Ouegha R. jct.	Mountain river w/ wide plain	6km: Riverine crop	6 km	Al Wahda dam
- Mengou R.	No.02: Tizimellal	170	40km/Ouegha R. jct.	Mountain river w/o plain	None	None	Negligible effect to Al Wahda dam
- Lebene R.	No.20: Sidi Abbou	363	70km/Inawene R. jct.	Mountain river w/ wide plain; i=1/700	70km: Riverine crop	70 km	None
- Zloul R.	No.17: Azghar	295	26km/Sebou R. jct.	Mountain river w/ wide valley; i=1/320	19km: Crop	19 km	None
- Beht R.(Tigriga R.)	No.14: Adarouch	630	12km/Lower gorge	Mountain river w/ wide plain; i=1/230	12km: Livestock	12 km	Negligible effect to El Kansera dam
3. BOU REGREG RIVER BASIN AND ATLANTIC COASTAL AREA OF CASABLANCA							
Bou Regreg(Tabahart)R.	No.15: Sidi Omar	350	20km/BouRegreg R. jct.	Mountain river w/ wide valley	20km: Crop, houses	20 km	None
Iqem R.(Khellata R.)	No.04: Ain Kwachiya	162	33km/Rivermouth	Lowering chan. w/o plain	10km: Sidi Yahia, crop	10 km	None
N'Fifikh R.	No.05: Lower N'Fifikh	606	25km/Rivermouth	Lowering chan. w/o plain	None	None	None
	No.05: Upper N'Fifikh	300	24km/National road	Lowering chan. w/ wide plain	24km: Crop, houses	24 km	None
Mellah R.(Zamrine R.)	No.18: Boukarkour	1,120	37km/Mellah dam	Lowering chan. w/ wide wide plain	11km: Crop	11 km	Mellah dam
4. OUM ER RBIA RIVER BASIN							
Oum Er Rbia R.							
- El Abid R.	No.22: N'Ouantz	204	9km/Ourrine R. jct.	Mountain rivers w/o plain	None	None	None
- Tessaout(Lakhdar)R.	No.03: Ait Baddou	194	13km/Sidi Driss dam	Seems stable channel	13 km: Houses, crop	None	Sidi Driss dam
5. TENSIFT RIVER AND ESSAOIRA COASTAL BASINS							
Tensift R.							
- N'fiss R.	No.07: Amez Miz	80	28km/L.Takerkoust dam	Mountain river w/ plain; i=1/60	28km: Riverine crop	28 km	Lalla Takerkoust dam
- Assif el Ma R.	No.09: Taskourt	439	52km/National road	River in mountain and alluvial fan(i=1/80)	25km: Crop, houses	25 km	None
- El Rhira R.	No.08: Boulaouane	565	28km/Amznas R. jct.	River in alluvial fan(i=1/95)	28km: Crop, houses	28 km	None
6. SOUSS, MASSA RIVER BASINS							
Souss R.							
- Issen R.	No.24: Amont Abdel.	936	24km/Abdelmoumen dam	River w/ wide plain	20km: Houses, crop	20 km	Abdelmoumen dam
- L'ouaar R.	No.25: Sidi Abdellah	233	20km/Souss R. jct.	River in mountain and alluvial fan(i=1/70)	14km: Houses, crop	14 km	None
- Aguerd R.	No.23: Igui N'Ouaqa	161	21km/Souss R. jct.	River in mountain and alluvial fan(i=1/75)	10km: Houses, crop	10 km	None
7. GUIR, ZIZ, RHERIS AND DRAA RIVER BASINS							
Guir R.							
- Bouanane R.	No.12: Tiouzaguine	258	26km/Toulal (weir)	Diffusing river system in desert (i=1/100)	22 km: Oases	None	None
Rheris R.	No.13: Kheng Grou	4,900	36km/Jbel Lakhall weir	River system in desert w/ trees	12 km: Riverine crop	None	None
- Ferkla R.	No.11: Tadighoust	2,239	25km/Goulmina	River system in desert	16 km: Oases	None	None
Draa R.	No.10: Timkit	592	18km/Tanguerfa	River system in desert	7 km: Oases	None	None
	No.16: Tiouine	1,540	19km/Narrow section	Mountain river with sediment deposit	19 km: Riverine crop	Road	Mancour Eddahbi dam

(Notes) BA: Basin area,

Table II4.4.2: Volumes annuels d'envasement des barrages

River system	Candidate dam	BA (km ²)	DS (m ² /km/vr)	VS (Mm ³ /vr)	Notes/Basis of estimate
1. MOROCCO NORTH BASINS					
Neckor R.	No.01: Neckor	710	3,333	3.800	El Kattabi data
2. SEBOU RIVER BASIN					
Sebou R.					
- Ouerrha R.					
- Aoudour R.	No.06: Tazarane	30	(3,800)	0.114	Various formulas
- Aoulai R.	No.19: Aoulai	490	863	0.430	Various formulas
- Amezetz R.	No.21: Sidi El Mokhfi	378	(101)	0.038	Various formulas
- Mengou R.	No.02: Tizimellal	170	(2,876)	0.489	
- Lebene R.	No.20: Sidi Abbou	363	(2,755)	1.000	
- Zloul R.	No.17: Azghar	295	(441)	0.130	
- Behit R.(Tigriga R.)	No.14: Adarouch	630	(317)	0.200	
3. BOU REGREG RIVER BASIN AND ATLANTIC COASTAL AREA OF CASABLANCA					
Bou Regreg R.(Tabahart R.)	No.15: Sidi Omar	350	649	0.230	El Kattabi/El Kansera data
Iqem R.(Khellata R.)	No.04: Ain Kwachiya	162	(105)	0.017	El Mellah data
Neffikh R.	No.05: Lower N'fifikh	606	(100)	0.061	
	No.05: Upper N'fifikh	306	(98)	0.030	
Mellah R.(Zamrine R.)	No.18: Boukarkour	1,120	(100)	0.112	
4. OUM ER RBIA RIVER BASIN					
Oum Er Rbia R.					
- El Abid R.	No.22: N'ouantz	204	(392)	0.080	Specific yield (DS)
- Tessaout R.(Lakhdar R.)	No.03: Ait Baddou	194	1,200	0.250	
5. TENSIFT RIVER AND ESSAOUIRA COASTAL BASINS					
Tensift R.					
- N'fiss R.	No.07: Amez Miz	80	280	0.025	Lalla Takerkoust data
- Assif el Ma R.	No.09: Taskourt	439	280	0.120	Lalla Takerkoust data
- El Rhira R.	No.08: Boulaouane	565	(283)	0.160	
6. SOUSS, MASSA RIVER BASINS					
Souss R.					
- Issen R.	No.24: Amont Abdel.	938	(161)	0.151	Zaouiet El Kheng, Tamzigt data
- L'ouaar R.	No.25: Sidi Abdellah	233	430	0.103	
- Aguerd R.	No.23: Igui N'ouaqa	161	460	0.075	
7. GUIR, ZIZ, RHERIS AND DRAA RIVER BASINS					
Guir R.					
- Bouanane R.	No.12: Tiouzaguine	258	(543)	0.140	Beni Yati sta. Data
Rheris R.	No.13: Kheng Grou	4,900	333	1.500	
- Ferklo R.	No.11: Tadighoust	2,239	(335)	0.750	Mansour Eddahbi data
- Draa R.	No.10: Timkit	592	(338)	0.200	
	No.16: Tiouine	1,540	700	1.000	

(Notes) BA: Basin area

DS: Annual specific reservoir sedimentation