

**Japan International Cooperation Agency
Ministry of Energy and Mineral Development**

**PROJECT FOR MASTER PLAN STUDY
ON
HYDROPOWER DEVELOPMENT
IN
THE REPUBLIC OF UGANDA**

DRAFT FINAL REPORT

APPENDIX

December 2010

**Electric Power Development Co., Ltd.
Nippon Koei Co., Ltd.**

Appendix A

Hydrological Data

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Table A-1-1 Monthly Rainfall at Soroti

Location : Soroti Gauging Station : Soroti
 Station ID : 88330060 Basin Name : Lake Kyoga
 Elevation : 1,132 m Source : UMD
 Longitude : 33.62 E
 Latitude : 1.72 N

(unit : mm)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1989	0	14	139	158	154	33	130	152	122	202	79		
1990	63	168	136	213	120	39	107	162	152	209	70	80	1,519
1991	56	58	79	182	430	123	98	275	246	140	82	7	1,776
1992	6	8	40	171	141	187	77	117	107	184	123	84	1,245
1993	26	29	13	125	161	224	42	112	78	146	127	29	1,112
1994	6	0	126	140	146	178	108	171	140	155	182	20	1,372
1995	0	37	139	246	118	74	182	89	106	255	103	53	1,402
1996	76	83	171	212	349	136	102	244	270	32	79	17	1,771
1997	23	0	43	252	23	65	112	172	8	201	231	104	1,234
1998	48	56	20	108	259	87	285	132	55	130	168	2	1,350
1999	89	0	177	113	160	44	147	169	111	138	36	37	1,221
2000	0	13	49	118	151	103	104	235	170	138	58	26	1,165
2001	57	4	188	180	238	171	231	165	92	351	89	0	1,765
2002	16	6	51	138	195	49	35	112	171	229	118	103	1,223
2003	53	48	31	219	188	302	84	184	171	74	107	19	1,479
2004	79	50	45	138	120	99	51	129	121	51	138	35	1,055
2005	15	17	90	179	217	79	209	147	174	88	33	0	1,247
2006	11	29	149	166	114	40	200	101	161	163	150	62	1,346
2007	64	59	20	181	137	79	144	223	145				
2008	9	32	159	164	64	76	157	171	121	124	188	0	1,264
2009	97	5	38	124	108	36							
Average	38	34	91	168	171	106	130	163	136	158	114	38	113
Max	97	168	188	252	430	302	285	275	270	351	231	104	246
Min	0	0	13	108	23	33	35	89	8	32	33	0	31

Note: Blank indicate that data is missing

Table A-1-2 Monthly Rainfall at Gulu

Location : Gulu Gauging Station : Gulu
 Station ID : 87320000 Basin Name : Kyoga Nile
 Elevation : 1,105 m Source : UMD
 Longitude : 32.28 E
 Latitude : 2.78 N

(unit : mm)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1990			51	168	143	151	163	319	235	196	67		
1991	18	84	110	149	248	154	134	243	80	129	75	23	1,447
1992	23	5	22	153	254	243	181	223	128	393	75	108	1,808
1993	6	22	36	211	255	244	132	199	115	131	124	65	1,540
1994	3	0	92	159	161	259	272	295	123	191	197	0	1,752
1995	0	1	49	143	95	156	203	184	206	131	122	38	1,328
1996	57	26	73	141	312	132	156	248	128	280	84	4	1,641
1997	7	0	46	208	120	67	150	115	60	241	192	90	1,296
1998	35	1	3	173	57	89	130	164	106	226	151	23	1,158
1999	19	0	106	171	131	80	141	251	234	300	102	26	1,561
2000	5	1	23	148	131	159	167	156	221	239	103	18	1,371
2001	0	7	162	142	168	178	195	166	36	210	158	13	1,433
2002	6	23	142	181	164	127	224	75	218	126	39		1,322
2003	29	14	64	212	86	126	128	284	205	69	141	97	1,455
2004	50	7	50	185	177	100	132	264	219	201	72	26	1,481
2005	6	28	80	102	162	233	79	186	69	214	82	0	1,242
2006	28	18	133	139	137	84	163	179	178	150	87	78	1,373
2007	1	12	16	142	95	116	232	351	282	126	90	16	1,478
2008	33	3		157	149	108	248	307	53	201	55	8	1,320
2009	21	57	75	196	166								
Average	18	16	70	164	161	148	170	221	152	198	106	37	1,461
Max	57	84	162	212	312	259	272	351	282	393	197	108	1,808
Min	0	0	3	102	57	67	79	75	36	69	39	0	1,158

Note: Blank indicate that data is missing

Table A-1-3 Monthly Rainfall at Lira

Location : Lira Gauging Station : Lira
 Station ID : 87320390 Basin Name : Kyoga Nile
 Elevation : 1,068 m Source : UMD
 Longitude : 32.90 E
 Latitude : 2.25 N

(unit : mm)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1990	28	111	127	133	141	86	90	333	133	183	68	80	1,513
1991	107	24	64	206	283	56	172	220	50	248	77	32	1,541
1992	11	8	82	134	244	141	136	209	175	211	108	86	1,544
1993	15	13	78	135	206	200	51	149	308	153	56	16	1,379
1994	7	0	126	108	189	197	292	204	135	151	388	34	1,830
1995	2	26	89	161	145	250	372	135	173	229	178	113	1,873
1996	29	29	125	228	182	82	154	271	249	170	98	59	1,674
1997	23	0	31	329	126	79							
1998					238	74	140	180	101	246	155	8	
1999	36	12	141	107	128	102	115	201	218	198	110		1,368
2000	23	2	45	260	188	162	127	264	242	238	104	27	1,681
2001	77	21	156	223	130	108	168	144	151	216	224	26	1,643
2002	7	1	138	171	176	148	142	337	164	204	119	76	1,684
2003	38	17	60	257	170	76	148	102	126	172	106	56	1,328
2004	141	58	32	229	107	29	158	158	112	116	180	16	1,333
2005	10	13	101	176	198	145	115	175	203	176	60	0	1,373
2006	27	70	82	116	160	80	87	113	259	171	125	117	1,405
2007	34	99	64	92	135	192	220	281	268	170	57	5	1,617
2008	4	30	120	99	106	119	152	220	212	249	34	8	1,353
2009	41	4	54	231	134	75	109	157	274	122	89	274	1,567
Average	35	28	90	179	169	120	155	203	187	191	123	57	1,537
Max	141	111	156	329	283	250	372	337	308	249	388	274	1,873
Min	2	0	31	92	106	29	51	102	50	116	34	0	1,328

Note: Blank indicate that data is missing

Table A-1-4 Monthly Rainfall at Masindi

Location : MASINDI Gauging Station : MASINDI
 Station ID : 88310030 Basin Name : Victoria Nile
 Elevation : 1,147 m Source : UMD
 Longitude : 31.72 E
 Latitude : 1.68 N

(unit : mm)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1990	25	46	124	193	101	92	35	108	153	243	48	242	1,410
1991	45	37	116	92	185	79	140	137	102	163	144	24	1,264
1992	28	0	68	151	104	112	159	164	192	149	93	82	1,302
1993	24	113	105	86	307	133	67	167	151	81	131	36	1,401
1994	38	1	72	138	194	99	94	188	112	154	201	20	1,311
1995	6	14	113	274	167	86	169	152	246	219	120	65	1,631
1996	67	27	131	156	83	133	102	123	145	164	153	45	1,329
1997	33	0	91	263	70	122	176	48	136	262	237	177	1,615
1998	82	32	112	114		37	148	74	171	128	70	7	
1999	16	6	206	51	187	55	56		119	278	130	43	
2000	3	38	44	208	194	45	156	159	117	489	81	33	1,565
2001	16	13	130	162	173	31	137	140	175	142	222	5	1,345
2002	5	21	212	185	103	72	81	136	119	155	171	95	1,354
2003	22	4	122	166	210	51	88	205	100	103	131	93	1,294
2004	20	61	125	198	181	87	34	153	91	143	114	35	1,242
2005	4	36	69	112	191	43	148	151	197	132	89	40	1,212
2006	36	22	67	162	130	100	104	87	79	245	199	98	1,327
2007	24	93		116	127	60	80	112	130	93	89	13	
2008		68	158			88	89	189	186	155	55	4	
2009	81	20	19		29								
Average	30	33	110	157	152	80	109	138	143	184	130	61	1,327
Max	82	113	212	274	307	133	176	205	246	489	237	242	1,631
Min	3	0	19	51	29	31	34	48	79	81	48	4	1,212

Note: Blank indicate that data is missing

Table A-1-5 Monthly Rainfall at Aduku

Location : Aduku Gauging Station : Aduku
 Station ID : 88320110 Basin Name : Kyoga Nile
 Elevation : 1,020 m Source : UMD
 Longitude : 32.72 E
 Latitude : 1.98 N

(unit : mm)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1990	37	38	141										
1991													0
1992													0
1993	0	8	103	176	273	192	95	141	84	123	57	71	1,323
1994													0
1995	0	20	109	121	113	56	125	143	126	223	162	33	1,233
1996	28	107	131	145	118	68	85	270	172	166	180	51	1,521
1997	5	0	37	275	137	125	71	86	86	244	128	154	1,347
1998													0
1999													0
2000													0
2001	51	65	64	150	117	82	169	84	81	148	110	0	1,121
2002	14	17	175	176	59	62	205	110	116	114	163	67	1,277
2003	66	37	202	142	94	116	18	95					771
2004	69	0	0	126	0	152							346
2005													0
2006													0
2007													0
2008													0
2009													0
Average	30	32	107	164	114	107	110	133	111	170	133	63	1,273
Max	69	107	202	275	273	192	205	270	172	244	180	154	1,521
Min	0	0	0	121	0	56	18	84	81	114	57	0	0

Note; Blank indicate that data is missing

Table A-1-6 Monthly Rainfall at Paraa

Location : PARAA Gauging Station : PARAA
 Station ID : 87310090 Basin Name : Lake Albert
 Elevation : 675 m Source : UMD
 Longitude : 31.58 E
 Latitude : 2.30 N

(unit : mm)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1961	9	38	25	178	296	108	163	208	261	206	351	35	1,878
1962	36	0	131	220	124	83	43	148	197	165	79	83	1,309
1963	69	118	65	173	91	45	122	51	93	114	248	99	1,288
1964	0	30	92	288	74	75	59	135	201	164	75	100	1,293
1965	0	11	132	109	50	32	81	56	55	191	167	70	954
1966	33	37	162	231	61	96	51	59	129	110	71	0	1,040
1967	0	1	54	80	59	119	50	192	127	207	170	6	1,065
1968	0	23	113	184	82	83	97	25	99	176	178	107	1,167
1969	27	167	93	68	91	120	118	55	69	168	133	46	1,155
1970	6	32	161	142	143	73	92	107	111	96	72	11	1,046
1971	0	0	38	110		129		51	87	42	41		
1973	12	21	11	166	145	26	36	132	131	315	87	31	1,113
1974	4	16	109	130	187	89	149	158	151	265	81	3	1,342
1975	3	71	155	148	108	38	166	173	203		70	30	
1976	8	104	75	180	100	81	131	134	119	70	122	45	1,169
1977	18	14	199	162	91	67	84	120	90	126	229	22	1,222
1978	46	43	145	154	120	87	80	210	186	227			
1980			26	51	122	75	139	114	194	72	76	38	
1981	6	12	149	108	66	96	70	59	158	215	79	51	1,069
1982	33	17	91	144	69	110	111	97	249	249	137	38	1,345
1983	1	1	76	218	145	89	84		258	148	75	4	
1984	0	17			32	19	179	139	96	197	184	44	
1985	89	18	151	224	163	59							
Average	16	38	100	154	111	82	96	114	151	166	127	43	1,199
Max	89	167	199	288	296	129	179	210	261	315	351	107	1,878
Min	0	0	11	51	32	19	36	25	55	42	41	0	954

Note; Blank indicate that data is missing

Table A-1-7 Monthly Rainfall at Apach

Location : APACH Gauging Station : APACH
 Station ID : 88320300 Basin Name : Victoria Nile
 Elevation : 1,020 m Source : UMD
 Longitude : 32.53 E
 Latitude : 1.98 N

(unit : mm)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1980	0	6	166	139	124	54	39	130	126	121	78	0	983
1981	4	0	201	68	62	38	105	167	123	157	108	8	1,041
1982	0	46	60	101	149	108	104	86	72	207	134	33	1,100
1983				152	155	87	138	260		111	109	0	
1984	0	0	24	64	64	85	71	61	75	65	95	10	614
1985	49	0	92	150	111	80	98	92	69	0	69	10	820
1986	0	0	25	88	106	43	81	71	86	33	67	24	624
1987	47	2	20	23	68	48	16	92	51				
1989	0	5	38	64	103	41	33	75	72	64	41	44	580
1990	18	42	76	42	91	31	48	114	83	86	25	105	761
1991	9	5	0	42	131	75	44	166	25	38	46	0	581
1992													
1993													
1994	11	0	42	97	174	110	97	88	97	132	217	25	
1995	0	33	93	178	76	68	66	137	103	211	120	18	
1996													
1997													
1998													
1999		36	57	114	106	15	78	182	168	126	205	76	
2000	4	21	72	291	212								
2001													
2002	20	18	237	626	229	285	344						
Average	12	14	80	140	123	78	92	123	88	104	101	27	982
Max	49	46	237	626	229	285	344	260	168	211	217	105	1,100
Min	0	0	0	23	62	15	16	61	25	0	25	0	580

Note; Blank indicate that data is missing

Table A-1-8 Monthly Rainfall at Nakasongola

Location : NAKASONGOLA Gauging Station : NAKASONGOLA
 Station ID : 88320020 Basin Name : Lake Kyoga
 Elevation : 1,005.0 m Source : UMD
 Longitude : 32.47 E
 Latitude : 1.32 N

(unit : mm)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1957	29	40	45	324	89	125	37	62	47	53	62	2	915
1958	53	35	63	178	120	70	92	77	73	136	11	105	1,013
1959	24	10	94	72	125	36	158	67	134	102	177	0	999
1960	62	31	166	172	104	44	49				99		
1961	10	19	128	153	96	75	97	170	95	279	315	58	1,495
1962	16	29	85	130	180	24	22	140	182	162	69	18	1,057
1963	116	24	101	305	121	39	25	82	38	66	268	147	1,332
1964	0	32	21	222	68	75	57	131	144	227	52	12	1,041
1965	0	12	101	139	96	36	34	74	82	218	139	36	967
1966	24	77	93	209									
1967	0	0	85	135	186	67	74	60	94	160	167	26	1,054
1968	0	13	41	231	101	72	63	60	50	155	154	157	1,097
1969	60	66	106	59	177	52	22	115	190	186	91		
1971								5	3	34	6	0	
1972	1	2	101	50	135	118	154	124	101	184	226	32	1,228
1973	57	69	27	132	167	63	36	147	184	110	63	6	1,061
1974	33	31	124	168	112	57	190	117	165	40	96	1	1,134
1975	36	7	154	83	84	87	92	84	124	162	46	31	990
1976	6	30	71	178	162	74	144	94	111	88	94	19	1,071
1977	39	45	50	172	137	39	61	156	64	191	148	28	1,130
1979	116	60	53						36	2	79	0	
1980	36	0	158		161	89	56	138	113	84	140		
Average	34	32	85	164	126	64	78	98	101	134	118	38	1,072
Max	116	77	166	324	186	125	190	170	190	279	315	157	1,495
Min	0	0	21	50	68	24	22	5	3	2	6	0	915

Note; Blank indicate that data is missing

Table A-1-9 Monthly Rainfall at Gulu After Synthesized Missing Data

Location : Gulu Gauging Station : Gulu
 Station ID : 87320000 Basin Name : Kyoga Nile
 Elevation : 1,105 m Source : UMD
 Longitude : 32.28 E
 Latitude : 2.78 N

(unit : mm)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1990	25	100	51	168	143	151	163	319	235	196	67	72	1,691
1991	18	85	110	149	248	154	134	243	80	129	75	23	1,448
1992	23	5	22	154	255	243	181	223	128	394	75	108	1,810
1993	6	22	36	211	255	244	132	199	115	131	124	65	1,540
1994	3	0	92	159	161	259	272	295	123	191	197	0	1,751
1995	0	1	49	144	95	156	203	184	206	131	122	38	1,329
1996	57	26	73	141	312	132	156	248	128	280	84	4	1,641
1997	7	0	46	208	120	67	150	115	60	241	192	90	1,295
1998	35	1	3	173	57	90	130	165	107	226	151	23	1,161
1999	19	0	106	171	131	80	141	251	234	300	102	26	1,562
2000	5	1	24	148	131	159	168	156	222	239	103	18	1,374
2001	0	7	162	142	168	178	195	166	36	210	158	13	1,435
2002	6	23	124	142	181	164	127	224	75	218	126	39	1,447
2003	29	14	64	212	86	127	128	284	205	70	141	97	1,457
2004	50	7	50	185	177	100	131	264	101	201	72	26	1,364
2005	6	28	81	103	162	233	79	187	79	214	82	2	1,255
2006	28	19	133	140	137	84	163	179	178	150	87	78	1,376
2007	1	12	17	143	95	116	232	351	282	126	90	16	1,480
2008	4	3	96	157	149	108	248	307	153	201	55	8	1,488
2009	21	57	75	196	166	65	81	204	246	116	80	58	1,364
Average	17	21	71	162	162	145	161	228	150	198	109	40	1,463
Max	57	100	162	212	312	259	272	351	282	394	197	108	1,810
Min	0	0	3	103	57	65	79	115	36	70	55	0	1,161

Note; Blank indicate that data is missing

Table A-1-10 Monthly Rainfall at Lira After Synthesized Missing Data

Location : Lira Gauging Station : Lira
 Station ID : 87320390 Basin Name : Kyoga Nile
 Elevation : 1,068 m Source : UMD
 Longitude : 32.90 E
 Latitude : 2.25 N

(unit : mm)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1990	28	111	127	133	141	86	90	333	133	183	68	80	1,513
1991	107	24	64	206	283	56	172	220	50	248	77	32	1,541
1992	11	8	82	134	244	141	136	209	175	211	108	86	1,544
1993	15	13	78	135	206	200	51	149	308	153	56	16	1,379
1994	7	0	126	108	189	197	292	204	135	151	388	34	1,830
1995	2	26	89	161	145	250	372	135	173	229	178	113	1,873
1996	29	29	125	228	182	82	154	271	249	170	98	59	1,674
1997	23	0	31	329	126	79	141	108	57	227	181	84	1,386
1998	33	1	3	163	238	74	140	180	101	246	155	8	1,342
1999	36	12	141	107	128	102	115	201	218	198	110	25	1,393
2000	23	2	45	260	188	162	127	264	242	238	104	27	1,681
2001	77	21	156	223	130	108	168	144	151	216	224	26	1,643
2002	7	1	138	171	176	148	142	337	164	204	119	76	1,684
2003	38	17	60	257	170	76	148	102	126	172	106	56	1,328
2004	141	58	32	229	107	29	158	158	112	116	180	16	1,333
2005	10	13	101	176	198	145	115	175	203	176	60	0	1,373
2006	27	70	82	116	160	80	87	113	259	171	125	117	1,405
2007	34	99	64	92	135	192	220	281	268	170	57	5	1,617
2008	4	30	120	99	106	119	152	220	212	249	34	8	1,353
2009	41	4	54	231	134	75	109	157	274	122	89	274	1,567
Average	35	27	86	178	169	120	154	198	181	192	126	57	1,523
Max	141	111	156	329	283	250	372	337	308	249	388	274	1,873
Min	2	0	3	92	106	29	51	102	50	116	34	0	1,328

Note; Blank indicate that data is missing

Table A-1-11 Monthly Rainfall at Masindi After Synthesized Missing Data

Location : MASINDI Gauging Station : MASINDI
 Station ID : 88310030 Basin Name : Victoria Nile
 Elevation : 1,147 m Source : UMD
 Longitude : 31.72 E
 Latitude : 1.68 N

(unit : mm)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1990	25	46	124	193	101	92	35	108	153	243	48	242	1,409
1991	45	37	118	92	185	79	140	137	102	163	144	24	1,265
1992	28	0	68	151	104	112	159	164	192	149	93	82	1,301
1993	24	113	117	86	307	133	67	167	151	81	131	36	1,413
1994	38	1	72	138	194	99	94	188	112	154	201	20	1,312
1995	6	14	113	274	167	86	169	152	246	219	120	65	1,631
1996	67	27	131	156	83	133	102	123	145	164	153	45	1,329
1997	33	0	91	263	70	122	176	48	136	262	237	177	1,614
1998	82	32	112	114	178	37	148	74	171	128	70	7	1,153
1999	16	6	206	51	187	55	56	151	119	278	130	43	1,297
2000	3	38	44	208	194	45	156	159	117	489	81	33	1,565
2001	16	13	130	154	173	31	137	140	159	142	222	5	1,323
2002	5	21	21	185	103	72	81	136	119	155	171	65	1,134
2003	22	4	122	166	210	51	88	205	100	103	131	93	1,294
2004	20	0	125	198	0	87	34	153	91	143	114	35	1,000
2005	4	36	69	112	195	43	148	150	197	132	45	41	1,173
2006	36	22	67	162	143	99	104	87	79	210	199	98	1,305
2007	21	62	84	116	127	60	80	112	201	93	77	13	1,046
2008	49	68	154	55	28	90	69	182	149	155	56	4	1,058
2009	83	54	80	200	168	76	89	83	206	101	90	177	1,408
Average	31	30	102	154	146	80	107	136	147	178	126	65	1,301
Max	83	113	206	274	307	133	176	205	246	489	237	242	1,631
Min	3	0	21	51	0	31	34	48	79	81	45	4	1,000

Note; Blank indicate that data is missing

Table A-1-12 Monthly Rainfall at Aduku After Synthesized Missing Data

Location : Aduku Gauging Station : Aduku
 Station ID : 88320110 Basin Name : Kyoga Nile
 Elevation : 1,020 m Source : UMD
 Longitude : 32.72 E
 Latitude : 1.98 N

(unit : mm)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1990	37	38	141	159	83	76	29	89	126	200	40	199	1,216
1991	37	31	97	75	152	65	115	112	84	134	119	20	1,041
1992	23	0	56	124	85	92	131	135	158	122	77	68	1,071
1993	0	8	103	176	273	192	95	141	84	123	57	71	1,323
1994	31	1	59	114	160	82	78	155	92	126	166	17	1,080
1995	0	20	109	121	113	56	125	143	126	223	162	33	1,233
1996	28	107	131	145	118	68	85	270	172	166	180	51	1,521
1997	5	0	37	275	137	125	71	86	86	244	128	154	1,347
1998	67	27	92	94	147	30	122	61	141	106	57	6	949
1999	13	5	170	42	154	45	46	139	98	229	107	35	1,083
2000	3	31	36	171	159	37	128	131	96	402	66	27	1,288
2001	51	65	64	150	117	82	169	84	81	148	110	0	1,121
2002	14	17	175	176	59	62	205	110	116	114	163	67	1,277
2003	66	37	202	142	94	116	18	95	82	84	108	76	1,121
2004	69	0	0	126	0	152	28	126	75	118	94	29	816
2005	3	29	57	92	160	35	122	124	162	109	42	34	970
2006	30	18	55	133	118	82	86	71	65	173	164	80	1,074
2007	18	51	69	96	105	49	66	92	186	77	63	10	881
2008	41	56	127	45	23	74	56	149	123	128	46	4	870
2009	68	45	66	165	138	63	73	69	190	83	74	146	1,179
Average	30	29	92	131	120	79	92	119	117	155	101	56	1,123
Max	69	107	202	275	273	192	205	270	190	402	180	199	1,521
Min	0	0	0	42	0	30	18	61	65	77	40	0	816

Note; Blank indicate that data is missing

Table A-2-2 Relative Humidity at Soroti

Location : Soroti Gauging Stat : Soroti
 Station ID : 88330060 Basin Name : Lake Kyoga
 Elevation : 1,132 m Source : UMD
 Longitude : 33.62 E
 Latitude : 1.72 N

(unit : %)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Average
	31	28	31	30	31	30	31	31	30	31	30	31	
	31	29	31	30	31	30	31	31	30	31	30	31	
1997	69	66	64	79	81	81	85	80	67	78	76	68	75
1998	62	48	56	49	69	68	71	68	64	67	45	48	60
1999	55	39	66		69	69	67	68	64	67	56	52	56
2000	43	50	51	61	66	65	68	69	62	63	60	58	60
2001	58	49	60	55	69	71	71	70	65	66	65	50	62
2002	54	45	62	65	69	66	60	63	59	64	63	60	61
2003	54	47	55	62	70	69	72	70	65	60	62	56	62
2004	58	53	59	73	68	67	65	69	68	59	61	54	63
2005	48	43	60	63	68	67	67	65	61	62	53	40	58
2006	45	50	67	68	71	63	66	66	51	61			
2007	56	63	57	61	68	73	72	71	71	60	57	49	63
2008	53	53	65	66	69	66	67	70	66	70	59	53	63
Average	54	50	60	63	70	69	69	69	63	64	60	53	62
Max	69	66	67	79	81	81	85	80	71	78	76	68	75
Min	43	39	51	49	66	63	60	63	51	59	45	40	52

Note; Blank indicate that data is missing

Table A-2-3 Relative Humidity at Masindi

Location : MASINDI Gauging Station : MASINDI
 Station ID : 88310030 Basin Name : Victoria Nile
 Elevation : 1,147 m Source : UMD
 Longitude : 31.72 E
 Latitude : 1.68 N

(unit : %)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Average
	31	28	31	30	31	30	31	31	30	31	30	31	
	31	29	31	30	31	30	31	31	30	31	30	31	
2000	53	53	53	65	70	67	74	79	74	77	71	69	67
2001	56	73	64		72	76	71	79	77	77	74	61	
2002	58	51	69	71	72	72	72	76	75	76	75	69	69
2003	64	53	65	73	72	75	79	76			70	66	
2004	62	54	67	73	69	71	67	75	76	75	72	64	69
2005	53	51	63	65	75	73	75	74	74	76	67	53	66
2006	52	54	69	73	74	67	73	79	73	72	78	71	70
2007	59	63		72	73	74	85	82	79	76	73	61	66
2008	64	61	69			70	75	76	78	81	69	60	
Average	58	57	65	70	72	72	74	77	76	76	72	64	69
Max	64	73	69	73	75	76	85	82	79	81	78	71	75
Min	52	51	53	65	69	67	67	74	73	72	67	53	64

Note; Blank indicate that data is missing

Table A-3-1 Long Term Mean of Temperature and Rainfall of the Major Cities in Uganda

Station	Items	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
KABALE	Max Temp.	24	25	24	24	23	24	24	24	25	24	23	24
	Ave. Temp.	18	18	18	18	18	17	17	17	18	18	17	17
	Min Temp.	11	11	11	12	12	10	9	10	11	12	11	11
	Rainfall	67	84	118	134	94	29	22	60	98	119	116	86
JINJA	Max Temp.	29	30	29	28	27	27	27	28	29	28	28	29
	Ave. Temp.	23	23	23	23	22	22	22	22	23	23	23	22
	Min Temp.	17	17	18	18	17	17	16	16	16	17	17	16
	Rainfall	67	73	139	190	148	65	66	89	105	135	167	91
KASESE	Max Temp.	31	32	31	31	30	31	30	31	31	30	29	30
	Ave. Temp.	24	25	25	25	24	24	24	24	24	24	23	23
	Min Temp.	17	17	18	19	18	18	17	18	17	17	17	17
	Rainfall	28	38	84	130	100	46	37	68	88	105	104	62
MBARARA	Max Temp.	27	28	27	26	26	27	27	27	27	26	26	26
	Ave. Temp.	21	22	21	21	21	21	21	21	21	21	20	21
	Min Temp.	15	15	16	16	15	14	14	15	15	15	15	15
	Rainfall	54	54	92	118	69	28	26	66	101	129	127	74
ARUA	Max Temp.	31	32	31	29	28	28	27	27	28	28	28	29
	Ave. Temp.	24	25	25	24	23	23	22	22	22	22	23	23
	Min Temp.	17	18	19	18	18	17	17	17	17	17	17	17
	Rainfall	17	37	91	120	128	146	154	217	173	209	125	30
SOROTI	Max Temp.	32	33	33	31	30	29	29	29	31	30	30	32
	Ave. Temp.	25	26	26	25	24	24	23	24	24	24	24	25
	Min Temp.	18	19	19	19	19	18	18	18	18	18	18	18
	Rainfall	30	46	102	169	188	121	138	165	136	146	93	39
GULU	Max Temp.	32	33	33	30	29	29	28	28	30	29	30	31
	Ave. Temp.	25	26	26	25	24	24	23	23	24	24	24	25
	Min Temp.	18	19	19	19	19	19	18	18	18	18	18	18
	Rainfall	17	28	83	160	178	158	169	217	169	195	118	33
NAMULONGE	Max Temp.	29	30	29	28	28	28	28	28	28	29	29	29
	Ave. Temp.	23	23	23	22	22	22	22	22	22	23	23	22
	Min Temp.	16	16	17	17	16	16	16	16	16	16	17	16
	Rainfall	55	60	122	172	136	67	62	85	105	132	137	82
LIRA	Max Temp.	32	33	32	30	29	29	29	29	30	30	30	31
	Ave. Temp.	23	24	23	22	22	21	21	21	21	21	22	22
	Min Temp.	13	14	15	15	14	14	14	14	13	13	14	13
	Rainfall	35	26	77	176	165	118	166	187	161	194	152	58
ENTEebbe	Max Temp.	27	28	27	26	26	26	25	26	27	27	26	27
	Ave. Temp.	23	23	23	23	22	22	22	22	22	23	22	23
	Min Temp.	19	19	19	19	19	19	18	18	18	19	18	18
	Rainfall	92	82	182	253	252	117	72	79	77	136	172	136
KAMPALA	Max Temp.	29	30	29	28	27	27	27	27	28	28	27	28
	Ave. Temp.	23	24	23	23	23	22	22	22	23	23	22	23
	Min Temp.	18	18	18	18	18	18	17	17	17	17	17	18
	Rainfall	68	63	132	169	118	69	63	96	108	138	149	92
MASINDI	Max Temp.	30	30	28	27	27	26	26	27	27	27	28	28
	Ave. Temp.	24	24	23	22	22	21	21	22	22	22	22	22
	Min Temp.	17	18	18	17	17	16	16	16	17	17	16	17
	Rainfall	56	107	162	146	97	109	137	141	147	122	48	1,304
TORORO	Max Temp.	31	30	29	28	28	28	28	29	29	29	30	29
	Ave. Temp.	24	24	23	23	22	22	22	22	23	22	23	23
	Min Temp.	17	17	17	17	16	16	16	16	16	16	16	16
	Rainfall	78	138	225	224	108	96	118	111	125	109	78	1,465
NAMALU	Max Temp.	33	33	31	29	29	28	28	29	30	31	31	31
	Min Temp.	16	17	17	16	16	16	15	15	15	15	14	16
MUBENDE	Max Temp.	27	26	25	25	25	24	24	25	25	25	28	25
	Ave. Temp.	22	21	21	20	20	20	20	20	20	21	22	21
	Min Temp.	16	16	16	16	16	16	15	15	16	16	16	16
MOROTO	Max Temp.	31	31	29	28	28	27	27	29	29	29	29	29
	Ave. Temp.	24	24	23	23	22	22	22	23	23	23	23	23
	Min Temp.	18	18	18	18	17	17	17	17	17	17	17	17
	Rainfall	33	76	127	141	84	136	103	51	48	53	26	887

Source: UMD

Table A-4-1 Monthly Average Wind Speed at Masindi

Location : MASINDI Gauging Station : MASINDI
 Station ID : 88310030 Basin Name : Victoria Nile
 Elevation : 1,147 m Source : UMD
 Longitude : 31.72 E
 Latitude : 1.68 N

(unit : km/h)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Average
	31	28	31	30	31	30	31	31	30	31	30	31	
	31	29	31	30	31	30	31	31	30	31	30	31	
1991	7.5	7.7	7.5	7.8	7.0		6.8	6.6	6.9	7.0	6.8	8.3	
1992	9.9	9.1	8.9	6.9	6.3	6.3	6.3	6.4	7.0	7.8	7.4	7.4	7.5
1993	9.5	9.3	6.8	7.2	6.7	7.0	6.5	6.6	6.2	6.8	9.1	7.4	7.4
1994	6.8	7.9	8.0	7.9	7.3	6.3	5.9	6.6	6.7	7.0	6.1	8.5	7.1
1995	7.8	7.2	6.8	5.8	6.3	6.0	6.2	6.2	6.1	2.8	6.6	8.2	6.3
1996		6.5	6.4	6.0	4.5	5.9	5.0	6.1	6.5	6.4	6.5		
1997	6.8	8.3	10.5			4.6	5.5	5.5	5.8	5.8	5.8	5.7	
1998	7.2		3.3	7.4	6.7	7.3	5.8	5.5	7.6	7.9	8.8	7.8	6.3
1999	6.2	8.7	6.2	9.2	6.3	5.9	6.6	7.0	6.8	7.5	5.8	6.7	6.9
2000	3.4	7.4				4.3	5.4	6.2	5.2	7.2	5.9	5.5	
2001	6.2	5.8	7.0	5.6	5.5	5.4	4.9	4.7	5.4	4.2	5.0	7.1	5.6
2002	7.3	7.2	6.6	7.9									
2003			4.5	4.8	4.9	3.9	4.4	4.6	4.5	4.8	4.4	3.8	3.7
2004	5.8	7.9			4.2	4.6	5.2	4.8	4.6	5.2	5.6	3.6	4.3
2005	9.3	8.3	9.3	9.3	8.3	1.7	4.2	2.4	2.9	3.9	3.0		5.2
2006													
2007	8.3	8.3	8.3	9.3	11.1	10.2	7.4	8.3	7.4	6.5	9.3	11.1	8.8
2008	9.3	10.2	9.3	8.3	9.3	6.5	8.3	5.6	7.4	9.3	10.2	10.2	8.6
2009	11.1	9.3	10.2	8.3	10.2	9.3	8.3						
Average	8	8	7	7	7	6	6	6	6	6	7	7	7
Max	11	10	11	9	11	10	8	8	8	9	10	11	10
Min	3	6	3	5	4	2	4	2	3	3	3	4	4

Note, Blank indicate that data is missing

Table A-4-2 Monthly Average Wind Speed at Gulu

Location : Gulu Gauging Station : Gulu
 Station ID : 87320000 Basin Name : Victoria Nile
 Elevation : 1,105 m Source : UMD
 Longitude : 32.28 E
 Latitude : 2.78 N

(unit : km/h)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Average
	31	28	31	30	31	30	31	31	30	31	30	31	
	31	29	31	30	31	30	31	31	30	31	30	31	
1991	10.2	7	9	8	4	6	6	7	6	7	7	12	7.4
1992	9	10	12	8	5	4	4	4	6	6	6	8	8
1993	11	7	9	8	4	4	4	5	10	9	9	10	7.6
1994	10	9	8	8	5	5	4	5	6	8	6	8	6.8
1995	8	7	7	7	5	4	6	6	4	4		7	
1996	8	7	8	5	5	3	3	5	5	7	7	9	6.0
1997	9			8	7	6	7	7	9	6	5	8	
1998	8	6	8	6	7	6	5	6	6	6	7	8	6.5
1999	8	10	7	6	5	5	6	6	5	6	7	6	6.5
2000													
2001	6	6	6			6	6	4	6	6	6	6	
2002	6	6		6	6	6	6	6	6	8	8	9	6.1
2003													
2004	10	11	10	9	8	7	9	8	7	8	8	10	9.0
2005	11	10	9	9	10	6	7	7	8	7	8	11	8.9
2006	12	10	8	9	8	8	7	6	7			6	
2007	8	8	8	9	7	6	7	7	7	7	7	7	7.7
2008	8	8		9	6	6	7	7	8	8	7	8	
2009	9	9	8	8	7	7	7						
Average	9	8	9	8	6	6	6	6	7	7	7	9	7
Max	12	11	12	9	10	8	9	8	10	9	9	12	10
Min	6	6	6	5	4	3	3	4	4	4	5	6	5

Note, Blank indicate that data is missing

Table A-5-1 Owen Falls Dam Release Record (Year 2004)

Location	: Owen Falls Dam	Year	: 2004
Station ID	:	Basin Name	: Nile River
Longitude	: 33.194 E	Data Source	: DWRM
Latitude	: 0.443 N		

Mean Daily Discharge												Unit: cms
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1,213	1,255	1,267	1,321	1,214	1,384	1,352	1,299	1,378	1,373	1,311	1,364
2	1,212	1,299	1,385	1,302	1,214	1,372	1,392	1,377	1,377	1,335	1,314	1,391
3	1,232	1,346	1,394	1,224	1,322	1,326	1,400	1,434	1,401	1,284	1,312	1,341
4	1,208	1,363	1,379	1,060	1,333	1,319	1,311	1,441	1,260	1,307	1,305	1,395
5	1,274	1,374	1,347	1,312	1,382	1,347	1,407	1,390	1,121	1,367	1,315	1,351
6	1,300	1,341	1,279	1,288	1,385	1,451	1,438	1,426	1,342	1,351	1,296	1,369
7	1,321	1,123	1,208	1,335	1,381	1,322	1,424	1,269	1,336	1,377	1,248	1,397
8	1,329	1,241	1,210	1,225	1,372	1,353	1,430	1,232	1,338	1,303	1,291	1,316
9	1,355	1,250	1,313	1,246	1,220	1,305	1,387	1,384	1,383	1,343	1,377	1,399
10	1,279	1,308	1,353	1,217	1,312	1,379	1,412	1,390	1,397	1,267	1,333	1,335
11	1,232	1,382	1,322	1,180	1,289	1,406	1,337	1,381	1,345	1,344	1,340	1,383
12	1,305	1,378	1,315	1,192	1,393	1,372	1,377	1,426	1,303	1,370	1,337	1,342
13	1,296	1,371	1,197	1,237	1,386	1,275	1,410	1,434	1,363	1,374	1,363	1,372
14	1,339	1,308	1,114	1,321	1,397	1,333	1,446	1,392	1,358	1,353	1,290	1,399
15	1,298	1,233	1,290	1,283	1,300	1,362	1,386	1,213	1,390	1,369	1,310	1,404
16	1,276	1,305	1,292	1,327	1,291	1,386	1,388	1,317	1,386	1,362	1,405	1,344
17	1,234	1,271	1,277	1,272	1,328	1,379	1,390	1,388	1,375	1,269	1,374	1,383
18	1,176	1,335	1,292	1,236	1,393	1,395	1,262	1,426	1,359	1,353	1,379	1,397
19	1,219	1,303	1,315	1,339	1,425	1,368	1,424	1,371	1,374	1,356	1,379	1,382
20	1,310	1,304	1,145	1,304	1,391	1,308	1,411	1,410	1,353	1,353	1,366	1,391
21	1,311	1,289	1,152	1,317	1,374	1,364	1,426	1,330	1,399	1,328	1,296	1,385
22	1,222	1,226	1,242	1,343	1,313	1,308	1,392	1,235	1,406	1,340	1,342	1,356
23	1,308	1,311	1,293	1,368	1,235	1,386	1,425	1,342	1,405	1,330	1,360	1,364
24	1,213	1,377	1,262	1,241	1,342	1,402	1,418	1,382	1,402	1,266	1,367	1,326
25	1,191	1,334	1,308	1,167	1,377	1,410	1,348	1,394	1,414	1,304	1,339	1,232
26	1,235	1,331	1,299	1,224	1,383	1,387	1,380	1,375	1,271	1,279	1,351	1,145
27	1,300	1,312	1,240	1,324	1,340	1,222	1,395	1,379	1,376	1,309	1,370	1,289
28	1,349	1,323	1,230	1,334	1,341	1,337	1,406	1,299	1,369	1,317	1,317	1,280
29	1,376	1,195	1,269	1,383	1,341	1,386	1,422	1,203	1,356	1,375	1,337	1,376
30	1,360		1,321	1,382	1,072	1,433	1,414	1,389	1,348	1,337	1,355	1,386
31	1,288		1,279		1,312		1,377	1,400		1,287		1,399
Average	1,276	1,303	1,277	1,277	1,328	1,359	1,393	1,359	1,356	1,332	1,336	1,355
Max	1,376	1,382	1,394	1,383	1,425	1,451	1,446	1,441	1,414	1,377	1,405	1,404
Min	1,176	1,123	1,114	1,060	1,072	1,222	1,262	1,203	1,121	1,266	1,248	1,145

Table A-5-1 Owen Falls Dam Release Record (Year 2005)

Location : Owen Falls Dam Year : 2005
 Elevation : Basin Name : Nile River
 Longitude : 33.194 E Data Source : DWRM
 Latitude : 0.443 N

Mean Daily Discharge												Unit: cms
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1,318	1,395	1,260	1,317	1,270	1,167	1,173	1,170	1,187	1,149	1,157	973
2	1,252	1,279	1,263	1,306	1,164	1,195	1,273	984	1,208	1,097	1,125	988
3	1,356	1,301	1,206	1,261	1,269	1,018	942	1,207	1,155	1,118	1,090	960
4	1,373	1,261	1,246	1,250	1,252	1,149	975	1,163	1,123	1,153	1,076	950
5	1,393	1,138	1,249	1,248	1,247	1,096	988	1,069	1,126	1,168	1,082	931
6	1,403	1,160	1,192	1,301	1,247	1,170	1,008	1,127	1,175	1,151	1,034	972
7	1,370	1,281	1,257	1,224	1,192	1,239	1,066	1,094	1,200	1,127	1,107	988
8	1,398	1,375	1,249	1,263	1,166	1,216	1,024	1,146	1,216	1,116	1,143	956
9	1,386	1,286	1,288	1,271	1,214	1,137	1,001	1,186	1,206	1,084	1,167	966
10	1,404	1,284	1,337	1,232	1,226	1,202	1,031	1,145	1,194	1,116	1,178	902
11	1,270	1,269	1,282	1,252	1,232	1,143	1,165	1,206	1,080	1,141	1,077	1,025
12	1,287	1,286	1,281	1,173	1,249	1,165	1,157	1,185	1,144	1,203	1,113	1,072
13	1,216	1,215	1,227	1,284	1,209	1,169	1,175	1,202	1,169	1,177	1,080	1,104
14	1,288	1,287	1,271	1,274	1,218	1,197	1,189	1,005	1,184	1,142	1,095	1,131
15	1,309	1,308	1,292	1,250	1,112	1,209	1,190	1,094	1,162	1,095	1,149	1,167
16	1,284	1,283	1,273	1,245	1,193	1,173	1,094	1,102	1,166	1,059	1,168	1,147
17	1,326	1,325	1,249	1,134	1,156	1,142	1,118	1,187	1,074	1,074	1,179	1,076
18	1,305	1,304	1,289	1,230	1,153	1,138	1,101	1,135	1,091	1,156	946	1,104
19	1,330	1,329	1,273	1,280	1,248	1,069	1,183	1,125	1,125	1,146	952	1,106
20	1,227	1,226	1,218	1,285	1,115	1,062	1,247	1,182	1,252	1,147	1,069	1,168
21	1,383	1,319	1,252	1,295	1,195	1,163	1,205	1,085	1,158	1,147	1,068	1,148
22	1,332	1,316	1,288	1,312	1,081	1,143	1,197	1,105	1,157	1,110	1,132	1,147
23	1,317	1,341	1,303	1,176	1,172	1,149	1,194	996	1,151	1,041	1,097	1,104
24	1,352	1,298	1,324	1,295	1,184	1,170	1,046	964	1,080	1,050	1,181	1,023
25	1,395	1,292	1,313	1,256	1,156	1,145	1,139	1,154	1,073	1,146	1,205	931
26	1,382	1,148	1,267	1,273	1,209	1,023	1,233	1,145	1,104	1,167	974	927
27	1,382	1,014	1,166	1,315	1,173	919	1,186	1,174	1,125	1,186	1,099	1,035
28	1,378	1,234	1,167	1,288	1,102	1,097	1,110	1,143	1,155	1,186	1,131	1,083
29	1,337		1,265	1,267	953	1,125	1,127	1,181	1,162	1,160	1,106	1,108
30	1,344		1,202	1,236	1,103	1,199	1,161	1,197	1,101	1,089	1,162	1,050
31	1,365		1,272		1,172		1,101	1,186		1,128		1,067
Average	1,337	1,270	1,259	1,260	1,182	1,140	1,123	1,130	1,150	1,130	1,105	1,042
Max	1,404	1,395	1,337	1,317	1,270	1,239	1,273	1,207	1,252	1,203	1,205	1,168
Min	1,216	1,014	1,166	1,134	953	919	942	964	1,073	1,041	946	902

Table A-5-1 Owen Falls Dam Release Record (Year 2006)

Location : Owen Falls Dam Year : 2006
 Elevation : Basin Name : Nile River
 Longitude : 33.194 E Data Source : DWRM
 Latitude : 0.443 N

Mean Daily Discharge Unit: cms

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	981	961	799	827	787	797	819	826	756	732	688	731
2	1,020	979	812	818	791	797	819	826	744	740	754	732
3	1,074	981	809	815	791	800	819	824	740	738	766	716
4	1,098	963	809	803	790	806	825	814	725	739	751	735
5	1,084	950	804	808	799	810	821	820	759	741	713	742
6	1,150	816	806	804	795	815	824	804	744	756	739	730
7	1,101	812	809	816	785	816	833	818	752	741	735	720
8	1,048	811	811	809	809	820	823	803	729	747	756	756
9	1,053	791	805	825	827	822	831	808	762	731	734	784
10	1,037	797	798	819	814	817	832	743	672	757	743	744
11	1,058	794	821	811	827	812	832	740	739	728	720	724
12	993	804	808	811	819	832	827	752	742	735	673	752
13	1,025	804	805	813	811	817	832	739	746	785	734	752
14	1,022	804	803	827	809	822	829	750	745	735	741	735
15	1,048	824	804	824	815	819	824	739	737	758	731	749
16	1,009	801	803	813	816	814	824	740	734	736	743	713
17	1,095	814	811	811	816	814	832	730	729	739	741	699
18	1,056	812	798	827	820	818	830	719	744	721	722	718
19	1,062	800	802	813	813	830	817	741	732	736	726	725
20	1,021	812	803	808	811	848	819	743	755	750	727	741
21	1,005	801	804	821	818	854	793	728	739	745	723	729
22	992	803	807	810	817	822	826	676	742	748	731	742
23	1,000	792	791	818	820	776	822	687	746	712	738	728
24	1,012	793	813	808	821	829	792	754	745	736	729	678
25	1,006	810	799	816	816	827	823	761	737	728	730	622
26	996	815	821	811	813	816	803	748	734	735	720	605
27	976	812	812	798	798	827	817	749	729	722	742	727
28	938	806	823	791	806	820	821	750	744	722	773	717
29	918		820	795	807	833	823	744	732	719	751	737
30	969		827	797	803	822	818	726	755	755	751	734
31	965		812		801		816	758		724		695
Average	1,026	834	808	812	808	818	821	760	740	738	734	723
Max	1,150	981	827	827	827	854	833	826	762	785	773	784
Min	918	791	791	791	785	776	792	676	672	712	673	605

Table A-5-1 Owen Falls Dam Release Record (Year 2007)

Location : Owen Falls Dam Year : 2007
 Elevation : Basin Name : Nile River
 Longitude : 33.194 E Data Source : DWRM
 Latitude : 0.443 N

Mean Daily Discharge Unit: cms

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	710	771	726	845	836	826	737	842	897	912	1,026	894
2	709	737	730	865	881	806	868	858	904	927	1,076	888
3	732	714	761	881	851	822	886	843	897	909	1,058	919
4	725	677	745	886	878	849	890	852	892	887	1,052	902
5	735	731	745	866	858	843	892	886	884	892	1,076	907
6	738	735	745	877	855	864	878	869	893	886	1,033	918
7	735	781	748	869	864	864	864	890	908	659	1,090	913
8	734	908	743	870	850	867	876	886	892	871	1,071	883
9	731	905	732	872	846	841	887	886	889	898	1,059	837
10	734	824	713	855	829	858	885	883	875	869	1,032	889
11	739	863	690	880	797	815	913	863	901	903	901	873
12	733	898	738	885	873	767	880	855	892	887	892	877
13	731	912	731	863	858	833	889	890	906	875	906	890
14	704	908	724	867	861	829	889	884	880	882	880	949
15	729	903	853	863	873	824	879	881	882	911	882	951
16	737	927	799	883	860	805	882	892	905	901	905	954
17	731	901	762	871	872	832	886	894	899	894	1,124	976
18	752	892	795	872	882	865	880	864	909	879	1,092	997
19	732	881	833	850	884	876	901	858	917	901	1,124	979
20	741	892	846	870	865	867	893	895	916	870	1,092	983
21	733	879	855	861	751	886	893	892	915	859	1,041	1,017
22	729	739	836	856	740	874	836	891	930	902	1,099	1,022
23	728	742	844	877	753	888	881	874	919	900	1,125	1,047
24	741	738	858	881	747	875	892	888	928	863	928	1,101
25	740	734	809	837	749	887	889	849	882	892	882	1,028
26	740	723	835	869	767	883	899	859	907	899	907	1,017
27	734	734	849	869	831	742	888	882	1,117	902	1,117	1,011
28	704	744	839	831	856	747	842	895	1,050	896	1,050	1,088
29	741		854	857	847	727	815	891	920	899	920	1,100
30	737		847	866	810	745	818	897	903	888	903	1,106
31	743		883		843		827	892		897		1,089
Average	732	814	789	866	834	834	872	877	914	884	1,011	968
Max	752	927	883	886	884	888	913	897	1,117	927	1,125	1,106
Min	704	677	690	831	740	727	737	842	875	659	880	837

Table A-5-1 Owen Falls Dam Release Record (Year 2008)

Location : Owen Falls Dam Year : 2008
 Elevation : Basin Name : Nile River
 Longitude : 33.194 E Data Source : DWRM
 Latitude : 0.443 N

Mean Daily Discharge												Unit: cms
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1,099	1,115	849	773	936	976	1,000	917	772	770	776	820
2	1,066	1,047	854	796	997	955	797	909	790	798	780	827
3	866	1,024	832	792	988	975	791	902	790	766	804	790
4	866	1,032	843	800	956	973	808	926	782	763	773	923
5	855	1,030	836	797	975	963	864	918	794	776	796	959
6	841	1,055	820	803	990	968	799	914	792	781	810	969
7	819	1,069	811	802	972	962	784	905	772	805	806	992
8	843	1,034	798	818	972	970	800	904	776	791	775	969
9	985	1,016	798	821	975	963	792	915	786	790	779	988
10	1,034	1,033	828	773	981	966	805	905	758	849	784	971
11	998	1,043	821	760	970	970	801	915	712	794	784	994
12	1,015	984	882	768	985	974	775	908	771	805	778	991
13	1,048	934	879	781	989	963	789	901	776	813	796	971
14	991	910	866	784	990	972	800	897	785	814	792	958
15	996	920	941	798	980	942	804	906	791	817	741	988
16	843	926	1,112	810	997	974	811	911	798	808	796	989
17	989	922	1,112	784	992	993	805	912	773	839	790	948
18	960	925	1,139	745	997	987	805	889	788	822	857	966
19	952	913	1,132	779	998	986	818	914	801	779	809	950
20	1,004	929	1,109	782	992	990	779	904	778	745	785	936
21	1,000	935	1,099	794	994	1,006	801	891	774	814	802	936
22	1,008	911	1,107	782	982	999	801	888	796	819	780	959
23	1,026	909	1,029	798	963	998	802	897	801	825	793	984
24	1,016	907	1,059	815	990	986	811	840	765	803	846	979
25	1,000	908	1,059	835	977	1,009	788	896	776	807	821	966
26	985	922	1,133	821	972	998	769	901	784	772	830	955
27	990	936	1,127	823	975	964	777	888	760	806	816	1,001
28	993	929	1,107	963	966	1,001	801	892	784	778	817	929
29	1,060	902	1,091	996	964	954	918	885	783	810	818	1,001
30	1,144		1,130	990	972	976	918	882	773	811	778	982
31	1,160		758		948		914	867		789		990
Average	982	970	966	813	979	977	817	900	779	799	797	954
Max	1,160	1,115	1,139	996	998	1,009	1,000	926	801	849	857	1,001
Min	819	902	758	745	936	942	769	840	712	745	741	790

Table A-5-1 Owen Falls Dam Release Record (Year 2009)

Location : Owen Falls Dam Year : 2009
 Elevation : Basin Name : Nile River
 Longitude : 33.194 E Data Source : DWRM
 Latitude : 0.443 N

Mean Daily Discharge Unit: cms

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	933	1,404	770	806	789	768	806	792	816	842		
2	918	1,262	774	800	783	764	828	804	833	802		
3	997	1,246	780	773	796	829	771	791	825	793		
4	990	1,326	784	761	818	811	772	787	822	785		
5	905	1,264	792	770	800	803	787	807	797	818		
6	977	1,268	779	779	806	798	800	814	789	806		
7	862	1,321	781	784	789	792	795	821	790	800		
8	1,000	1,295	798	788	832	766	787	811	763	800		
9	995	1,269	753	793	811	788	813	813	760	778		
10	1,019	1,268	779	790	794	782	818	817	781	787		
11	991	811	787	775	790	805	791	815	801	796		
12	956	797	796	748	798	790	800	835	777	815		
13	1,022	788	800	764	804	851	801	820	749	818		
14	1,004	812	748	790	811	783	813	848	809	815		
15	990	781	784	778	867	790	808	776	803	779		
16	991	818	772	797	791	851	805	789	808	795		
17	1,015	810	783	806	766	852	813	794	837	781		
18	970	792	794	793	798	845	817	814	840	749		
19	965	800	808	806	784	840	800	774	809	805		
20	944	779	816	780	850	816	831	794	782	833		
21	937	756	818	783	794	838	792	811	792	864		
22	963	759	770	792	825	812	894	781	830	849		
23	888	767	804	817	791	877	918	773	809	800		
24	979	790	810	807	810	831	872	795	816	785		
25	970	783	850	814	796	845	904	832	830	805		
26	966	788	856	813	807	786	884	821	807	806		
27	943	777	834	798	792	839	896	824	792	796		
28	957	796	841	788	806	801	872	832	791	796		
29	833		811	822	828	819	938	794	826	797		
30	912		833	821	786	841	901	774	822	814		
31	969		825		802		905	823		789		
Average	960	969	798	791	804	814	833	806	804	803		
Max	1,022	1,404	856	822	867	877	938	848	840	864		
Min	833	756	748	748	766	764	771	773	749	749		

Table A-5-2 Discharge Record of the Nile River at Masindi Port (Year 1983)

Location : Masindi Port Year : 1983
 Station II : 83203 Basin Name : Nile River
 Longitud : 32.1 E Data Source : DWRM
 Latitude : 1.7 N

Mean Daily Discharge											Unit: cms	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												1,384
13												1,377
14												1,380
15												1,380
16												1,354
17												1,328
18												1,320
19												1,308
20												1,302
21												1,304
22												1,297
23												1,306
24												1,298
25												1,295
26												1,287
27												1,286
28												1,279
29												1,270
30												1,267
31												1,281
Average												1,315
Max												1,384
Min												1,267

Table A-5-2(2) Discharge Record of the Nile River at Masindi Port (Year 1984)

Location : Masindi Port Year : 1984
 Station II : 83203 Basin Name : Nile River
 Longitud : 32.1 E Data Source : DWRM
 Latitude : 1.7 N

Mean Daily Discharge Unit: m³/s

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1,272											
2	1,291											
3	1,297											
4	1,295											
5	1,294											
6	1,292											
7	1,252											
8	1,254											
9	1,256											
10	1,254											
11	1,258											
12	1,249											
13	1,236											
14	1,241											
15	1,250											
16	1,245											
17	1,218											
18	1,212											
19	1,199											
20	1,180											
21	1,180											
22	1,185											
23	1,192											
24	1,194											
25	1,206											
26	1,189											
27	1,191											
28	1,190											
29	1,196											
30	1,205											
31												
Average	1,232											
Max	1,297											
Min	1,180											

Table A-5-2 Discharge Record of the Nile River at Masindi Port (Year 1989)

Location : Masindi Port Year : 1989
 Station II : 83203 Basin Name : Nile River
 Longitud : 32.1 E Data Source : DWRM
 Latitude : 1.7 N

Mean Daily Discharge Unit: m³/s

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1				927	1,013	1,093	1,096	1,122	1,092	1,074	1,099	1,082
2				931	1,007	1,095	1,095	1,122	1,085	1,079	1,109	1,075
3				932	1,007	1,095	1,090	1,117	1,079	1,084	1,119	1,050
4				936	1,013	1,091	1,090	1,116	1,075	1,085	1,121	1,030
5				934	1,018	1,095	1,090	1,103	1,080	1,090	1,124	1,026
6				932	1,021	1,093	1,090	1,108	1,091	1,095	1,114	1,023
7				929	1,022	1,087	1,106	1,112	1,086	1,101	1,107	1,018
8				927	1,030	1,085	1,115	1,114	1,090	1,105	1,106	1,013
9				934	1,030	1,085	1,100	1,117	1,090	1,101	1,106	1,007
10				937	1,019	1,085	1,104	1,125	1,093	1,098	1,106	1,002
11				937	1,018	1,090	1,110	1,130	1,101	1,095	1,109	997
12				942	1,016	1,090	1,097	1,123	1,105	1,095	1,116	996
13				945	1,018	1,090	1,087	1,117	1,096	1,095	1,112	987
14				947	1,023	1,095	1,080	1,114	1,088	1,095	1,117	981
15				950	1,026	1,101	1,084	1,108	1,084	1,095	1,117	979
16				952	1,031	1,108	1,087	1,117	1,075	1,090	1,118	
17				955	1,031	1,114	1,090	1,130	1,058	1,087	1,124	
18				958	1,034	1,117	1,092	1,133	1,070	1,086	1,122	
19				960	1,036	1,117	1,088	1,133	1,074	1,092	1,122	
20				963	1,034	1,122	1,085	1,129	1,082	1,087	1,125	
21				965	1,036	1,122	1,088	1,133	1,088	1,085	1,123	
22				968	1,027	1,125	1,124	1,133	1,091	1,085	1,120	968
23				971	1,029	1,128	1,120	1,124	1,080	1,087	1,114	965
24				974	1,032	1,134	1,117	1,101	1,079	1,087	1,109	960
25				979	1,036	1,143	1,127	1,086	1,074	1,080	1,106	958
26				986	1,037	1,139	1,127	1,082	1,074	1,087	1,101	960
27				992	1,039	1,135	1,115	1,087	1,076	1,092	1,098	957
28				997	1,041	1,128	1,103	1,090	1,073	1,090	1,095	948
29				1,007	1,042	1,120	1,110	1,085	1,067	1,086	1,093	947
30				1,013	1,042	1,108	1,112	1,088	1,071	1,086	1,087	947
31					1,047		1,117	1,095		1,095		942
Average				956	1,028	1,108	1,101	1,113	1,082	1,090	1,111	993
Max				1,013	1,047	1,143	1,127	1,133	1,105	1,105	1,125	1,082
Min				927	1,007	1,085	1,080	1,082	1,058	1,074	1,087	942

Table A-5-2 Discharge Record of the Nile River at Masindi Port (Year 1990)

Location : Masindi Port Year : 1990
 Station II : 83203 Basin Name : Nile River
 Longitud : 32.1 E Data Source : DWRM
 Latitude : 1.7 N

Mean Daily Discharge Unit: m³/s

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	936	825	880	1,191						1,139	1,224	1,304
2	923	829	883	1,213						1,144	1,229	1,304
3	924	830	883	1,210						1,165	1,232	1,304
4	927	834	881	1,209						1,175	1,237	1,304
5	931	835	885	1,205						1,196	1,240	1,304
6	934	839	887	1,204						1,207	1,246	1,299
7	937	840	888	1,199						1,210	1,254	1,299
8	942	844	892	1,199						1,214	1,262	1,299
9	941	845	891	1,198						1,207	1,268	1,299
10	929	849	898	1,194						1,199	1,276	1,299
11	923	847	901	1,193						1,201	1,281	1,299
12	905	847	905	1,193						1,210	1,285	1,299
13	885	852	906	1,193						1,216	1,290	1,299
14	867	855	910	1,191						1,221	1,293	1,296
15	846	852	909	1,188						1,226	1,299	1,293
16	839	857	913	1,187						1,226	1,304	1,293
17	832	860	916	1,183						1,221	1,307	1,293
18	829	864	911	1,180						1,216	1,315	1,293
19	824	862	908	1,177						1,221	1,315	1,288
20	819	859	905							1,226	1,315	1,287
21	812	853	901							1,232	1,310	1,287
22	809	854	903							1,237	1,310	1,287
23	810	858	903							1,242	1,310	1,287
24	814	864	906							1,240	1,310	1,287
25	814	869	908							1,236	1,310	1,287
26	814	870	911							1,227	1,310	1,285
27	815	872	916							1,225	1,309	1,282
28	819	875	919							1,217	1,305	1,282
29	819		922							1,220	1,304	1,282
30	820		926							1,216	1,304	1,282
31	824		952							1,220		1,282
Average	867	851	904	1,195						1,211	1,285	1,293
Max	942	875	952	1,213						1,242	1,315	1,304
Min	809	825	880	1,177						1,139	1,224	1,282

Table A-5-2 Discharge Record of the Nile River at Masindi Port (Year 1991)

Location : Masindi Port Year : 1991
 Station II : 83203 Basin Name : Nile River
 Longitud : 32.1 E Data Source : DWRM
 Latitude : 1.7 N

Mean Daily Discharge Unit: m³/s

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1,281	1,254	1,237									
2	1,277	1,254	1,237									
3	1,276	1,249	1,237									
4	1,276	1,248	1,232									
5	1,276	1,248	1,232									
6	1,276	1,248	1,232									
7	1,276	1,248	1,232									
8	1,271	1,248	1,232									
9	1,271	1,248	1,232									
10	1,271	1,248	1,232									
11	1,268	1,248	1,232									
12	1,265	1,248	1,232									
13	1,265	1,243	1,231									
14	1,265	1,243	1,227									
15	1,265	1,243	1,226									
16	1,265	1,243	1,224									
17	1,265	1,243	1,221									
18	1,265	1,243	1,221									
19	1,265	1,243	1,221									
20	1,265	1,243	1,221									
21	1,265	1,242	1,221									1,139
22	1,265	1,238	1,221									1,136
23	1,260	1,237	1,221									1,133
24	1,260	1,237	1,218									1,133
25	1,260	1,237	1,215									1,133
26	1,259	1,237	1,215									1,133
27	1,254	1,237	1,215									1,133
28	1,254	1,237	1,215									1,133
29	1,254		1,215									1,133
30	1,254		1,215									1,133
31	1,254		1,215									1,134
Average	1,266	1,244	1,225									1,134
Max	1,281	1,254	1,237									1,139
Min	1,254	1,237	1,215									1,133

Table A-5-2 Discharge Record of the Nile River at Masindi Port (Year 1992)

Location	: Masindi Port	Year	: 1992
Station II	: 83203	Basin Name	: Nile River
Longitud	: 32.1 E	Data Source	: DWRM
Latitude	: 1.7 N		

Mean Daily Discharge												Unit: m ³ /s
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1,138	1,112	1,010	1,053	989	1,002	1,015	1,033	1,063	1,002	991	984
2	1,138	1,111	1,010	1,050	989	997	1,018	1,029	1,049	1,005	995	990
3	1,134	1,107	1,011	1,047	989	1,001	1,016	1,027	1,049	1,009	981	988
4	1,133	1,106	1,015	1,045	994	990	1,016	1,033	1,042	1,007	979	1,003
5	1,133	1,101	1,015	1,042	995	989	1,019	1,034	1,033	1,007	980	1,000
6	1,133	1,101	1,015	1,039	1,000	992	1,011	1,032	1,027	1,005	994	995
7	1,133	1,101	1,015	1,031	1,005	997	1,018	1,032	1,029	1,000	1,005	1,000
8	1,133	1,101	1,016	1,026	1,013	1,004	1,025	1,036	1,022	997	993	1,004
9	1,133	1,101	1,020	1,026	1,020	1,005	1,018	1,035	1,032	994	984	1,005
10	1,133	1,101	1,021	1,021	1,021	1,001	1,018	1,050	1,037	997	986	1,007
11	1,128	1,100	1,021	1,021	1,021	1,001	1,016	1,065	1,041	1,000	999	1,005
12	1,128	1,096	1,026	1,018	1,021	996	1,018	1,051	1,034	1,000	996	1,002
13	1,127	1,095	1,026	1,015	1,018	1,000	1,017	1,057	1,027	997	989	999
14	1,116	1,093	1,026	1,013	1,015	1,003	1,022	1,041	1,029	995	1,002	995
15	1,121	1,090	1,031	1,010	1,015	1,007	1,023	1,035	1,036	994	1,004	996
16	1,117	1,085	1,032	1,007	1,018	1,010	1,026	1,037	1,029	986	992	1,006
17	1,117	1,085	1,036	1,005	1,021	1,010	1,026	1,030	1,028	984	989	1,005
18	1,117	1,085	1,037	1,005	1,020	1,007	1,026	1,042	1,028	987	992	1,010
19	1,117	1,085	1,037	1,005	1,016	999	1,026	1,041	1,021	1,004	989	1,010
20	1,117	1,082	1,039	1,004	1,020	995	1,026	1,048	1,013	987	984	1,000
21	1,112	1,075	1,039	1,000	1,021	1,006	1,033	1,036	1,000	989	989	997
22	1,112	1,030	1,044	1,000	997	997	1,039	1,037	989	986	996	1,004
23	1,112	1,026	1,047	1,000	973	992	1,050	1,053	982	977	1,002	1,003
24	1,112	1,021	1,047	1,000	973	1,001	1,037	1,049	983	989	1,003	993
25	1,112	1,021	1,047	1,000	973	1,000	1,039	1,060	982	994	1,005	994
26	1,112	1,020	1,047	999	973	1,000	1,040	1,070	989	987	1,005	995
27	1,112	1,015	1,048	995	973	1,000	1,042	1,061	992	992	1,002	1,004
28	1,112	1,011	1,052	994	973	1,002	1,042	1,053	993	982	992	1,004
29	1,112	1,010	1,053	994	974	1,002	1,042	1,052	1,006	1,005	991	997
30	1,112		1,053	994	978	1,005	1,040	1,057	1,005	1,007	985	997
31	1,112		1,053		992		1,041			995		1,002
Average	1,122	1,075	1,032	1,015	1,000	1,000	1,027	1,044	1,020	995	993	1,000
Max	1,138	1,112	1,053	1,053	1,021	1,010	1,050	1,070	1,063	1,009	1,005	1,010
Min	1,112	1,010	1,010	994	973	989	1,011	1,027	982	977	979	984

Table A-5-2 Discharge Record of the Nile River at Masindi Port (Year 1993)

Location : Masindi Port Year : 1993
 Station II : 83203 Basin Name : Nile River
 Longitud : 32.1 E Data Source : DWRM
 Latitude : 1.7 N

Mean Daily Discharge Unit: m³/s

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	999	884	789	842	878	919	1,013	990	932	861	825	749
2	994	869	785	849	884	940	1,008	988	936	859	828	756
3	1,000	862	782	845	878	968	1,012	975	938	880	804	749
4	1,007	852	779	844	881	993	1,008	975	916	866	821	760
5	993	849	779	847	872	1,011	1,007	978	923	856	807	760
6	989	842	775	852	877	1,026	1,014	967	942	890	825	761
7	999	837	774	850	881	1,042	1,008	968	935	889	824	759
8	1,010	832	777	839	883	1,058	1,010	965	919	876	819	743
9	1,010	824	776	857	887	1,062	1,010	963	923	869	827	737
10	1,007	819	772	860	881	1,054	1,007	957	918	853	815	744
11	1,000	815	772	861	878	1,050	1,002	952	919	869	821	744
12	991	812	769	869	884	1,032	1,003	936	922	865	824	738
13	1,001	807	769	873	885	1,048	993	932	918	867	823	741
14	1,001	804	769	876	890	1,030	994	943	929	860	812	738
15	992	806	765	873	898	1,045	993	949	934	844	804	738
16	991	805	785	878	900	1,032	1,003	964	927	855	797	740
17	990	802	817	880	900	1,022	1,009	962	926	872	800	740
18	991	802	818	880	889	1,007	993	956	918	862	807	747
19	981	804	808	880	889	997	991	940	913	845	823	752
20	962	802	799	874	893	989	997	933	892	841	820	772
21	956	797	792	877	902	1,011	993	945	914	858	826	741
22	948	794	797	879	889	1,014	1,001	948	920	854	823	742
23	902	794	807	873	902	996	1,006	935	905	862	797	748
24	892	792	812	863	905	1,022	994	924	900	852	774	761
25	883	789	819	849	898	1,020	1,001	929	885	852	792	752
26	883	789	825	857	898	996	1,003	933	890	855	792	759
27	885	789	823	855	905	1,000	988	929	885	848	789	769
28	884	789	823	878	904	1,009	991	926	887	860	782	761
29	893		826	881	907	1,019	990	924	879	845	774	744
30	882		826	878	904	1,016	994	928	881	848	749	740
31	885		828		907		999	938		848		742
Average	961	816	795	864	891	1,014	1,001	950	914	860	808	749
Max	1,010	884	828	881	907	1,062	1,014	990	942	890	828	772
Min	882	789	765	839	872	919	988	924	879	841	749	737

Table A-5-2 Discharge Record of the Nile River at Masindi Port (Year 1994)

Location	: Masindi Port	Year	: 1994
Station II	: 83203	Basin Name	: Nile River
Longitud	: 32.1 E	Data Source	: DWRM
Latitude	: 1.7 N		

Mean Daily Discharge												Unit: m ³ /s
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	719	674	629	604	656	679	688	674		704	711	
2	710	646	630	618	677	684	686	684		703	707	
3	703	627	638	629	669	679	682	688		688	709	
4	688	612	633	606	649	677	681	686		692		
5	677	615	618	611	651	678	679	690	743	687		
6	674	612	603	616	668	663	683	690	722	682		
7	667	618	627	631	672	650	686	686	730	694		
8	671	630	630	625	668	667	681	686	735	716		
9	669	644	623	633	668	665	676	690	738	711		
10	660	638	604	625	665	657	672	691	756	705		
11	652	648	624	612	674	669	672	693	751	693		
12	646	649	624	609	670	671	669	696	750	698		
13	647	642	625	602	657	670	665	696	737	703		
14	643	642	628	631	654	666	670	695	731	714		
15	640	638	629	630	670	670	669	692	728	711		
16	638	610	617		671	675	673	695	722	694		
17	641	601	609		677	674	664	696	734	708		
18	648	617	624		685	681	664	705	729	712		
19	654	628	629		679	677	667		724	705		
20	653	627	619		679	679	666		731	687		
21	656	627	639		683	686	662		730	686		
22	641	615	627		684	686	662		715	688		
23	633	618	630		676	686	666		709	705		
24	629	601	627	630	669	684	667		709	697		
25		591	627	650	685	681	667		714	708		
26		619	621	651	677	684	667		716	701		
27		619	618	655	669	686	667		718	709		
28		623	618	657	684	686	667		714	706		
29	670		623	650	694	691	667		688	704		
30	660		626	638	689	691	667		688	718		
31	666		613		684		667			705		
Average	661	626	624	628	673	676	672	691	725	701	709	
Max	719	674	639	657	694	691	688	705	756	718	711	
Min	629	591	603	602	649	650	662	674	688	682	707	