

Appendixes:

Table (a): Observation Discharge (m³/sec) at Kassala at Ki.5, Kassala Bridge, Futa, Sallam Alikoum and Gira Stations (Source: Gash River Training Unit, 2011)

<i>Q(Gira)</i>	<i>Q(K 1.5)</i>	<i>Q(Sallam Alikoum)</i>	<i>Q(Fota)</i>	<i>Q(K. B)</i>
101.47	75.58	9.15	10.62	86.10
197.83	106.76	73.46	85.70	10.72
147.58	106.76	101.17	100.98	21.73
197.83	142.40	101.17	154.29	51.33
253.58	142.40	132.57	154.29	78.00
10.26	75.58	50.02	71.68	12.64
35.20	75.58	50.02	58.55	16.84
2.05	9.04	16.10	9.79	1.50
2.05	5.91	5.39	14.89	2.00
0.93	9.04	16.10	9.79	0.50
628.30	447.49	301.89	362.89	400.00
628.30	456.00	301.89	434.14	233.00
103.70	75.58	50.02	607.96	110.81
147.14	142.40	73.46	154.29	121.46
103.70	26.89	31.09	14.89	73.34
103.70	57.00	16.10	14.89	174.85
4.69	9.04	3.30	14.89	100.13
0.93	5.91	3.30	9.79	1.00
4.69	9.04	3.30	9.79	2.50
147.58	106.76	101.17	117.71	80.67
147.58	106.76	73.46	117.71	24.35
35.20	48.90	50.02	35.04	18.97
35.20	48.90	50.02	35.04	39.44
253.58	9.04	5.39	9.79	25.69
66.50	48.90	132.57	85.70	23.51
253.58	226.20	253.84	196.44	53.11
253.58	226.20	113.86	196.44	47.36
147.58	142.40	168.73	134.96	33.46
316.41	226.20	132.57	196.44	154.00

<i>Q(Gira)</i>	<i>Q(K 1.5)</i>	<i>Q(Sallam Alikum)</i>	<i>Q(Fota)</i>	<i>Q(K. B)</i>
1041.89	739.48	538.87	607.96	1006.00
541.68	447.49	355.05	362.89	356.00
722.67	489.00	50.02	58.55	567.00
147.58	89.00	209.17	244.72	78.15
66.50	66.64	132.57	134.96	104.11
8.80	48.90	31.09	35.04	5.50
8.80	9.04	16.10	14.89	23.00
4.69	5.91	3.30	9.79	10.00
541.68	514.24	355.05	434.14	200.00
821.61	583.80	474.17	516.24	670.00
541.68	514.24	355.05	434.14	140.08
147.58	142.40	132.57	134.96	65.00
147.58	106.76	73.46	85.70	117.55
147.58	142.40	101.17	134.96	129.32
197.83	181.72	31.09	154.29	96.17
541.68	447.49	474.17	473.75	399.05
316.41	160.16	209.17	244.72	54.15
253.58	226.20	209.17	244.72	205.29
147.58	106.76	101.17	85.70	325.71
66.50	48.90	50.02	35.04	55.00
103.70	75.58	73.46	58.55	57.64
103.70	75.58	50.02	58.55	34.18
253.58	142.40	132.57	134.96	35.16
147.58	142.40	132.57	134.96	53.46
722.67	514.24	412.47	434.14	400.00
722.67	514.24	412.47	434.14	574.00
147.58	142.40	132.57	117.71	89.66
197.83	181.72	116.36	126.89	94.87
147.58	106.76	132.57	100.98	127.87
66.50	75.58	101.17	58.55	100.33
147.58	142.40	101.17	117.71	59.80
147.58	142.40	132.57	134.96	56.00
147.58	106.76	101.17	117.71	5.00

<i>Q(Gira)</i>	<i>Q(K 1.5)</i>	<i>Q(Sallam Alikum)</i>	<i>Q(Fota)</i>	<i>Q(K. B)</i>
197.83	181.72	168.73	196.44	52.46
722.67	514.24	412.47	434.14	136.33
147.58	142.40	101.17	117.71	175.57
316.41	275.17	208.94	244.72	114.35
103.70	106.76	73.46	85.70	83.41
66.50	48.90	73.46	85.70	93.85
147.58	142.40	101.17	117.71	148.57
35.20	48.90	31.09	35.04	70.81
459.90	289.00	16.10	14.89	80.38
66.50	48.90	31.09	35.04	105.86
66.50	75.58	50.02	58.55	44.78
35.20	26.89	16.10	14.89	38.10
103.70	106.76	101.17	85.70	37.54
147.58	181.72	132.57	196.44	63.00
103.70	75.58	73.46	58.55	18.62
66.50	48.90	31.09	35.04	30.28
316.41	275.17	253.84	229.29	19.78
66.50	75.58	73.46	58.55	81.08
35.20	9.04	5.39	9.79	45.00

Table (b): Maximum Gauge Flood in the Years 1983, 1988, 1998, 2003 And 2007(Source: Gash River Training Unit,2011)

DATE	Max. gauge/day				
	FLOOD1983	FLOOD1988	FLOOD1998	FLOOD2003	FLOOD2007
7-Jul	505.40	505.10	505.30	505.50	506.20
8-Jul	504.70	505.30	505.60	505.30	505.80
9-Jul	504.60	505.40	505.80	505.20	505.40
10-Jul	504.20	505.30	505.65	505.10	507.40

DATE	Max. gauge/day				
	FLOOD1983	FLOOD1988	FLOOD1998	FLOOD2003	FLOOD2007
11-Jul	504.10	505.20	505.60	506.00	506.30
12-Jul	504.10	505.30	505.90	506.00	505.40
13-Jul	504.10	505.20	505.85	505.25	505.65
14-Jul	504.20	505.00	505.85	505.60	505.45
15-Jul	504.00	505.60	505.40	505.30	505.50
16-Jul	504.00	505.10	505.60	505.20	505.20
17-Jul	504.00	504.90	505.50	504.80	505.55
18-Jul	504.10	505.70	505.20	504.70	506.10
19-Jul	505.60	505.50	505.10	505.00	505.75
20-Jul	505.10	505.40	505.20	505.60	505.50
21-Jul	504.80	505.80	505.65	505.60	505.40
22-Jul	505.50	505.50	505.50	505.30	505.40
23-Jul	505.30	505.70	505.15	505.20	505.40
24-Jul	505.50	505.50	505.10	505.00	505.55
25-Jul	507.00	505.40	505.15	505.60	505.80
26-Jul	506.00	505.00	505.30	505.85	505.40
27-Jul	505.30	505.40	505.60	505.70	505.45
28-Jul	504.90	505.40	505.50	505.70	505.45
29-Jul	505.30	506.10	505.70	505.90	505.20
30-Jul	505.90	506.00	505.90	507.00	505.60
31-Jul	505.40	505.40	505.65	505.90	505.60

DATE	Max. gauge/day				
	FLOOD1983	FLOOD1988	FLOOD1998	FLOOD2003	FLOOD2007
1-Aug	505.40	505.50	506.20	505.80	506.40
2-Aug	505.40	506.30	505.60	505.90	506.40
3-Aug	505.50	506.10	505.40	505.70	505.80
4-Aug	505.40	505.60	505.05	505.30	505.30
5-Aug	506.00	505.70	505.60	505.50	505.30
6-Aug	505.60	505.70	505.20	505.45	505.70
7-Aug	505.90	505.40	505.55	506.00	506.20
8-Aug	505.50	505.40	505.90	506.40	505.65
9-Aug	505.70	505.30	505.40	506.20	505.35
10-Aug	506.30	505.50	505.55	505.60	505.45
11-Aug	505.90	505.50	505.70	505.30	505.40
12-Aug	506.10	505.60	505.50	505.45	505.45
13-Aug	505.50	505.60	505.60	505.70	505.45
14-Aug	506.10	505.20	505.10	506.30	505.40
15-Aug	505.10	505.80	505.30	505.90	505.90
16-Aug	505.40	505.70	505.30	506.05	505.40
17-Aug	505.00	505.80	506.00	505.65	505.60
18-Aug	505.40	505.60	505.80	505.30	505.20
19-Aug	505.40	505.60	505.95	505.40	505.20
20-Aug	505.60	505.50	505.70	505.55	505.35
21-Aug	505.25	505.30	506.30	505.60	505.75

DATE	Max. gauge/day				
	FLOOD1983	FLOOD1988	FLOOD1998	FLOOD2003	FLOOD2007
22-Aug	505.80	505.10	506.00	505.55	505.60
23-Aug	505.10	505.10	506.00	505.80	506.10
24-Aug	504.80	505.30	505.45	506.20	506.30
25-Aug	505.50	505.10	505.50	505.60	505.45
26-Aug	504.80	505.40	505.85	505.90	505.25
27-Aug	504.90	505.20	505.55	505.55	505.30
28-Aug	504.70	505.30	506.30	505.70	505.10
29-Aug	504.60	505.40	505.95	505.55	505.35
30-Aug	504.70	505.70	506.30	505.55	505.45
31-Aug	505.90	505.40	505.80	505.55	505.70
1-Sep	505.20	506.00	505.25	505.70	505.60
2-Sep	504.90	505.30	505.55	506.00	505.60
3-Sep	505.10	504.80	506.10	505.70	505.70
4-Sep	505.00	505.60	505.80	505.70	505.55
5-Sep	504.90	505.25	505.25	505.40	505.45
6-Sep	505.10	505.20	505.50	505.20	505.45
7-Sep	505.00	505.00	505.50	505.40	505.55
8-Sep	504.70	504.80	505.35	505.30	505.80
9-Sep	504.80	504.70	505.80	505.30	505.70
10-Sep	504.60	505.00	505.05	505.25	505.45
11-Sep	504.60	505.30	504.85	505.30	505.60

DATE	Max. gauge/day				
	FLOOD1983	FLOOD1988	FLOOD1998	FLOOD2003	FLOOD2007
12-Sep	504.90	505.30	505.15	505.20	505.50
13-Sep	504.90	505.60	504.90	505.45	505.40
14-Sep	505.40	505.20	504.80	505.60	505.50
15-Sep	505.30	505.00	504.60	505.40	505.40
16-Sep	504.90	505.30	504.80	505.20	505.20
17-Sep	504.90	505.20	504.75	505.60	505.80
18-Sep	504.90	505.00	505.20	505.55	505.40
19-Sep	505.50	505.30	505.00	505.15	505.30
20-Sep	505.40	505.40	505.10	505.00	505.25
21-Sep	505.60	505.20	505.30	505.00	505.15
22-Sep	505.20	505.10	505.20	504.95	505.15
23-Sep	505.20	505.10	505.10	504.95	505.00
24-Sep	505.00	505.00	504.95	504.90	505.00
25-Sep	504.90	504.90	504.85	504.90	505.20
26-Sep	504.90	505.00	505.10	504.95	505.15
27-Sep	504.70	504.80	504.65	504.70	505.00
28-Sep	504.65	504.80	504.70	504.85	505.00