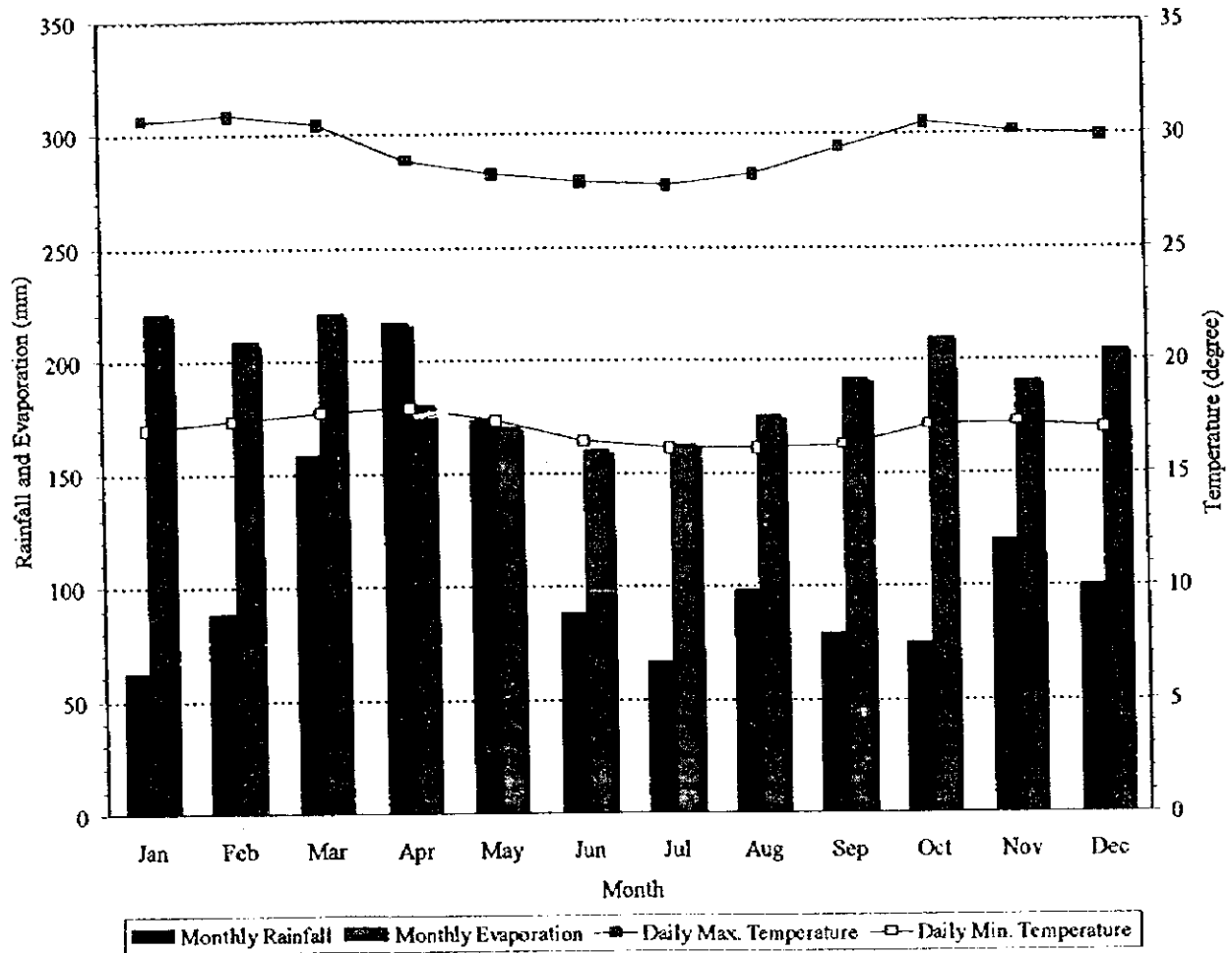


FIGURE

Figure A2-1

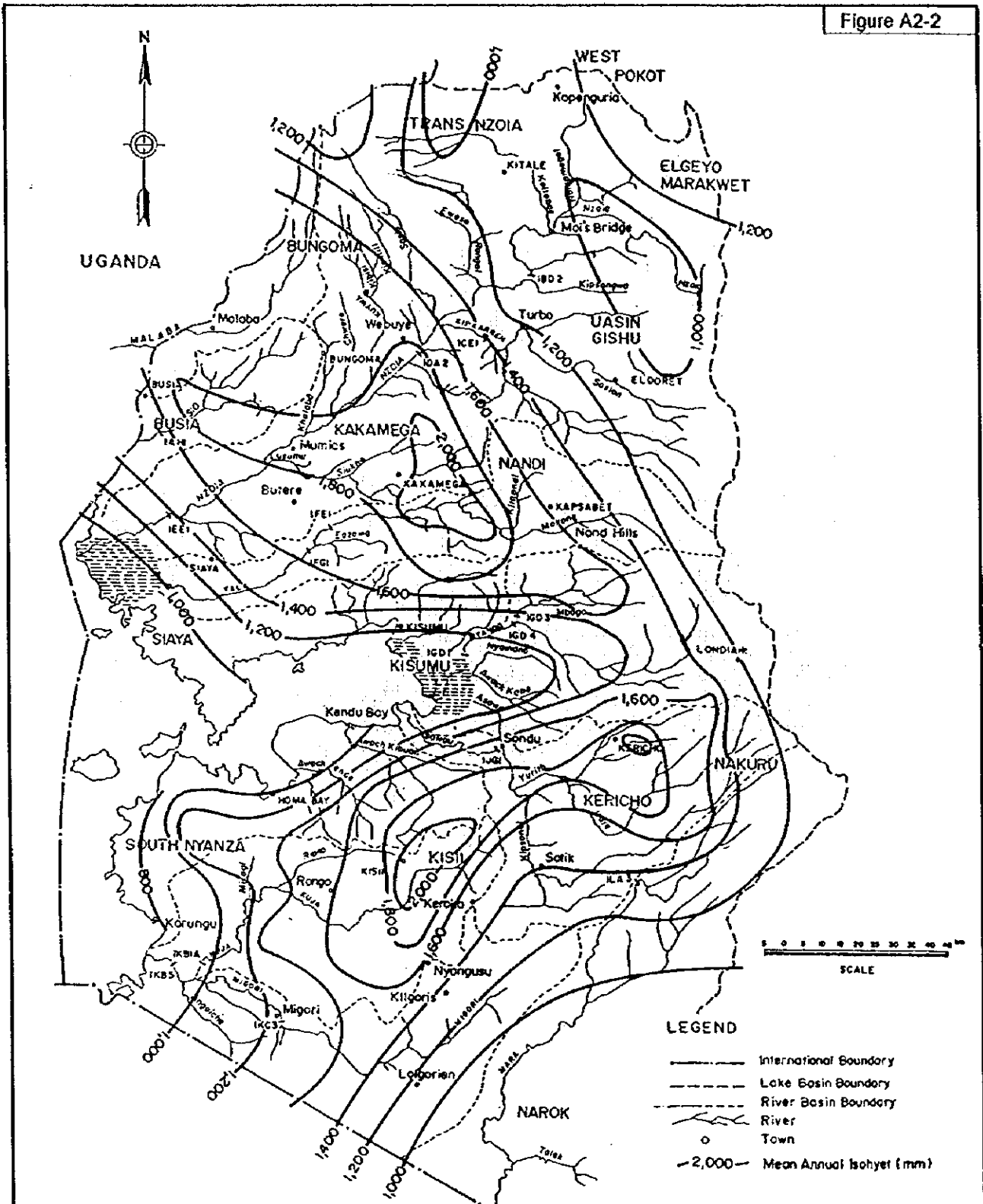


Kisumu Airport Meteorological Station (EL. 1149 m)
 Recording Period: 1931 - 1980

Data Source; MOWR (1992, July) "The Study on the National Water Master Plan - Data Book (DB.1) Hydrological Data (Study Supporting Data)". JICA.

THE REPUBLIC OF KENYA THE MINISTRY OF LOCAL AUTHORITIES KISUMU MUNICIPAL COUNCIL	THE STUDY ON KISUMU WATER SUPPLY AND SEWERAGE SYSTEM	TITLE : Meteorological Condition in Kisumu
	JAPAN INTERNATIONAL COOPERATION AGENCY	

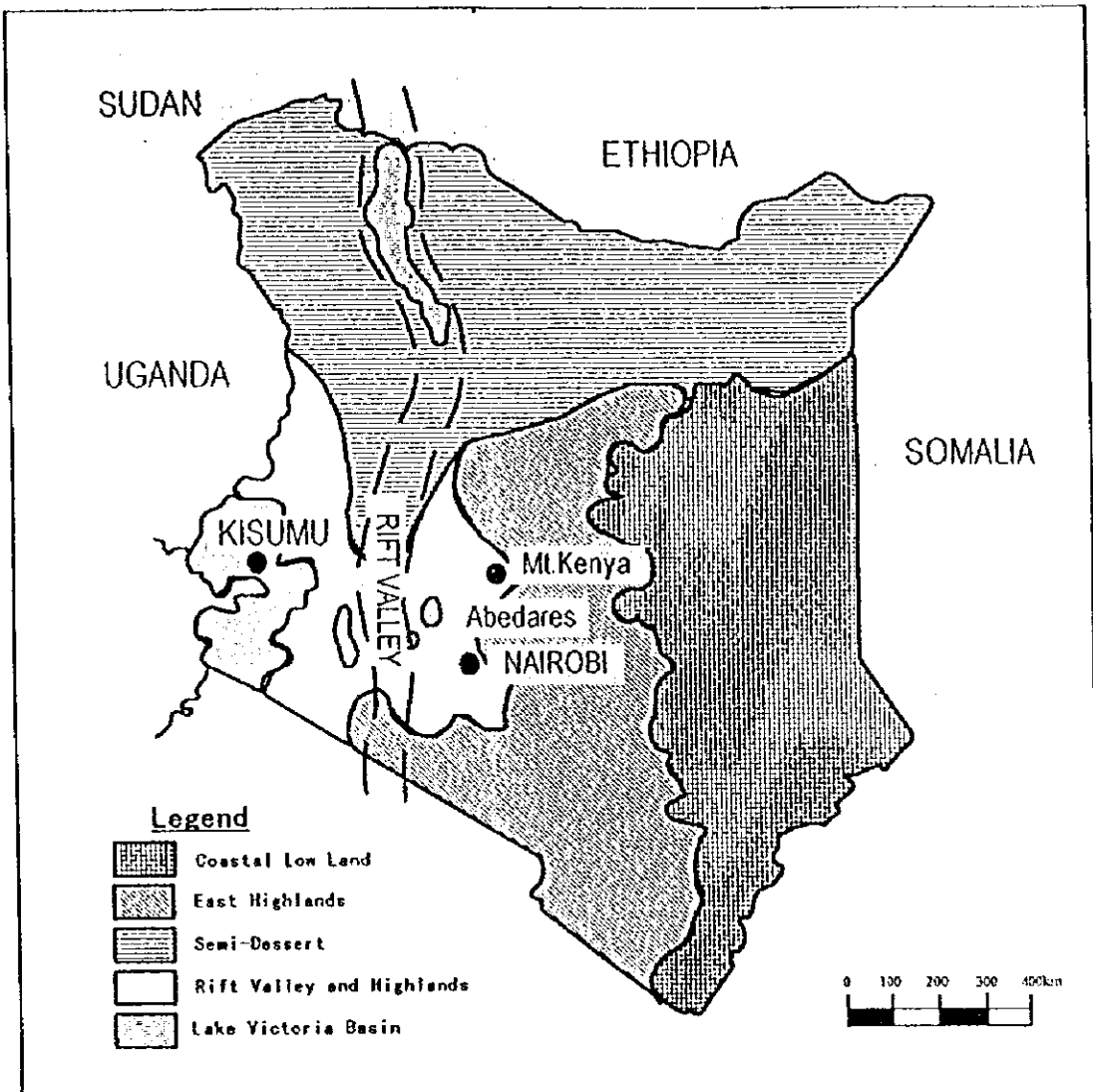
Figure A2-2



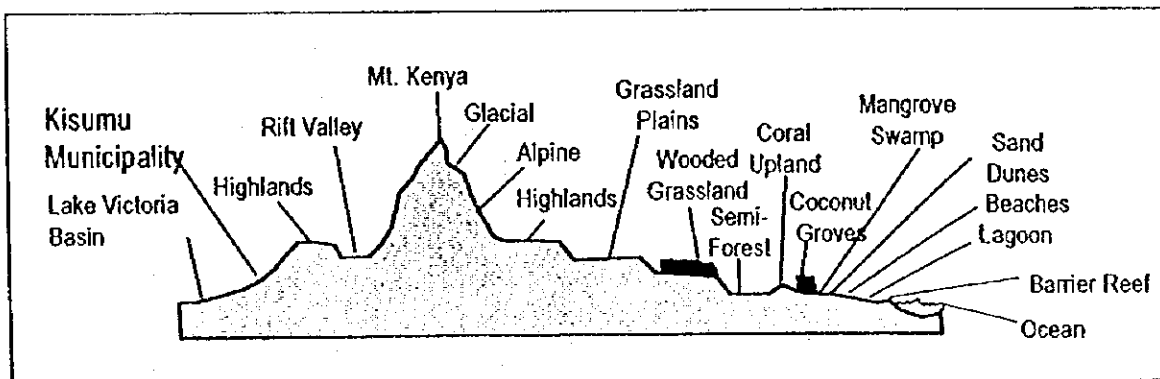
Source; LBDA (1987, October) "The Study of Integrated Regional Development Master Plan for the Lake Basin Development Area - Final Report Vol. 5, Sector Report 3, Water Resources/Transportation/Energy". JICA.

<p>THE REPUBLIC OF KENYA</p> <p>THE MINISTRY OF LOCAL AUTHORITIES</p> <p>KISUMU MUNICIPAL COUNCIL</p>	<p>THE STUDY ON KISUMU WATER SUPPLY AND SEWERAGE SYSTEM</p> <p>JAPAN INTERNATIONAL COOPERATION AGENCY</p>	<p>TITLE :</p> <p>Isohyetal Map of Lake Basin</p>
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Figure A2-3

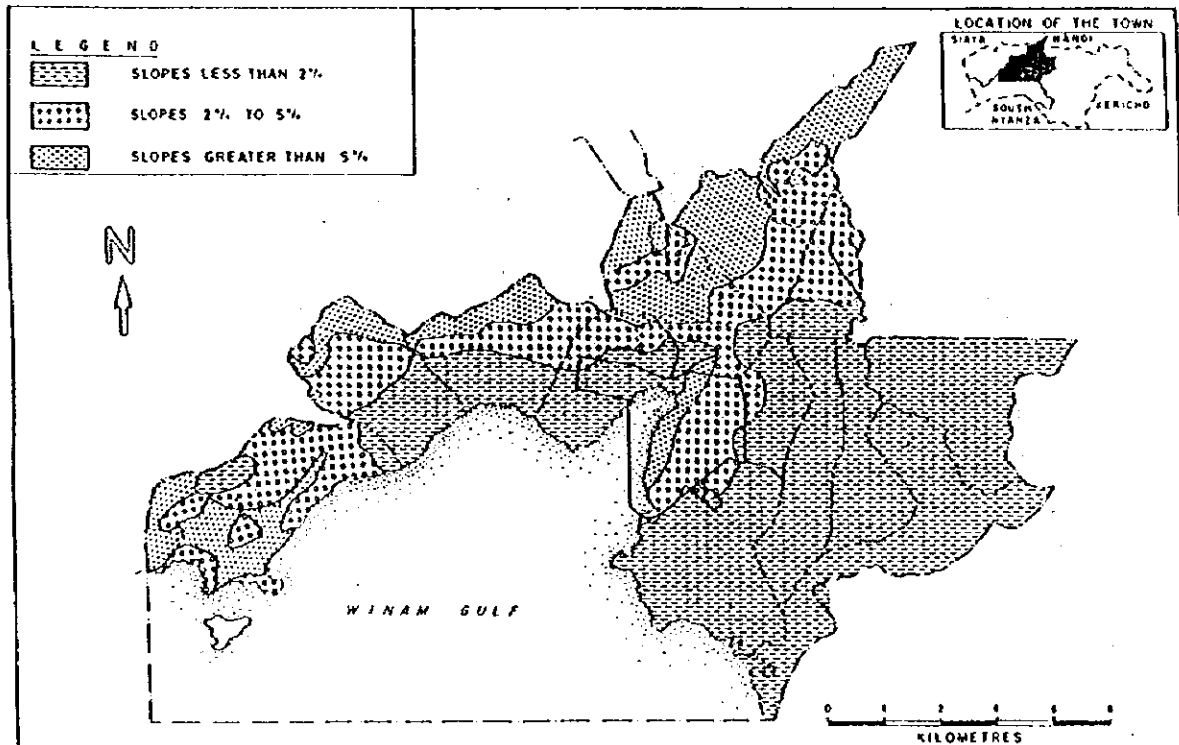
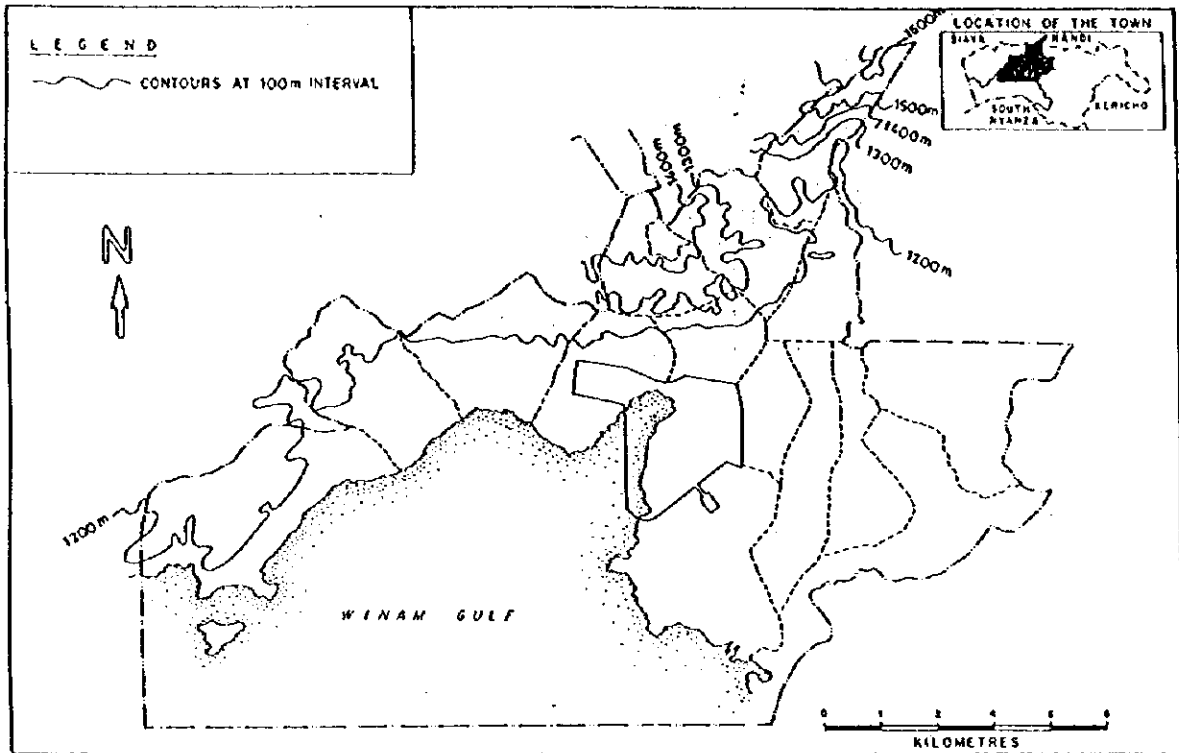


Source : Around Kenya and the World, Longman Primary Geographies



<p>THE REPUBLIC OF KENYA</p> <p>THE MINISTRY OF LOCAL AUTHORITIES KISUMU MUNICIPAL COUNCIL</p>	<p>THE STUDY ON KISUMU WATER SUPPLY AND SEWERAGE SYSTEM</p> <p>JAPAN INTERNATIONAL COOPERATION AGENCY</p>	<p>TITLE :</p> <p>Geographical Classification of Kenya</p>
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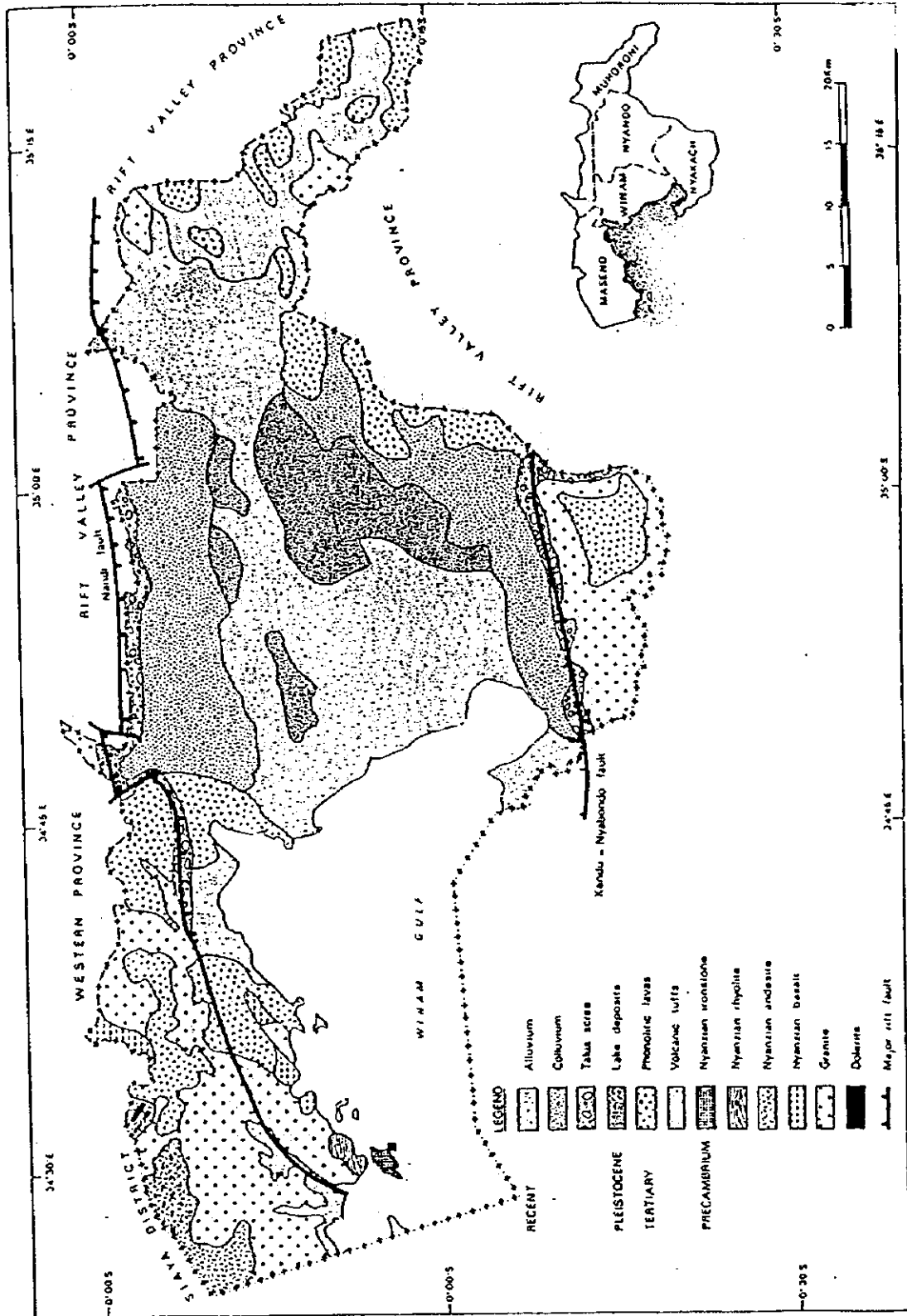
Figure A2-4



Source; MOI.A (1988, March) "Kisumu Water Supply and Sanitation Study - Feasibility Study, Vol. II A, Background Papers 1-9". H P Gauff GmbH & Co Consulting Engineers.

<p>THE REPUBLIC OF KENYA</p> <p>THE MINISTRY OF LOCAL AUTHORITIES KISUMU MUNICIPAL COUNCIL</p>	<p>THE STUDY ON KISUMU WATER SUPPLY AND SEWERAGE SYSTEM</p> <p>JAPAN INTERNATIONAL COOPERATION AGENCY</p>	<p>TITLE :</p> <p>Topograph and Slopes</p>
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Figure A2-5



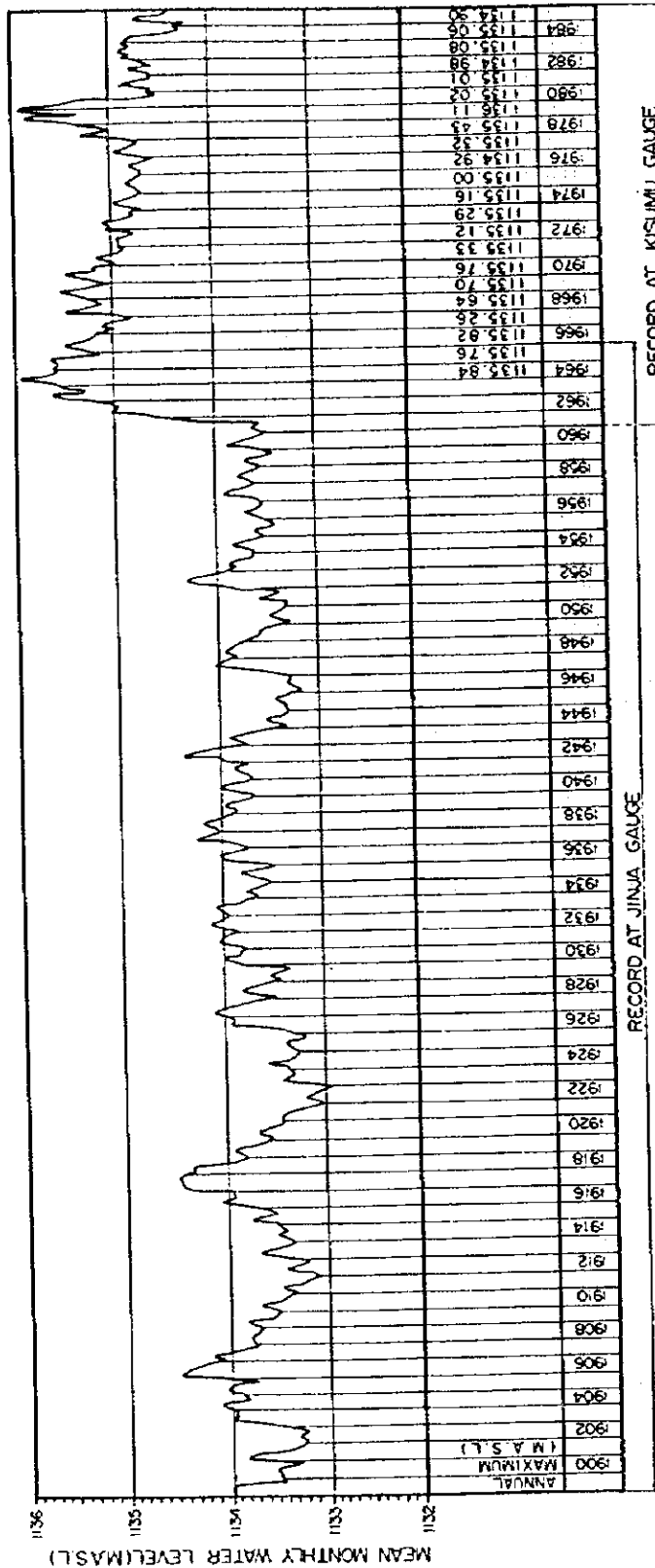
Source: MOLA (1988, March) "Kisumu Water Supply and Sanitation Study - Feasibility Study, Vol. II A, Background Papers 1-9." H P Gauff GmbH & Co Consulting Engineers.

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AND SEWERAGE SYSTEM
JAPAN INTERNATIONAL COOPERATION
AGENCY

TITLE :
Geological Map

Figure A2-6

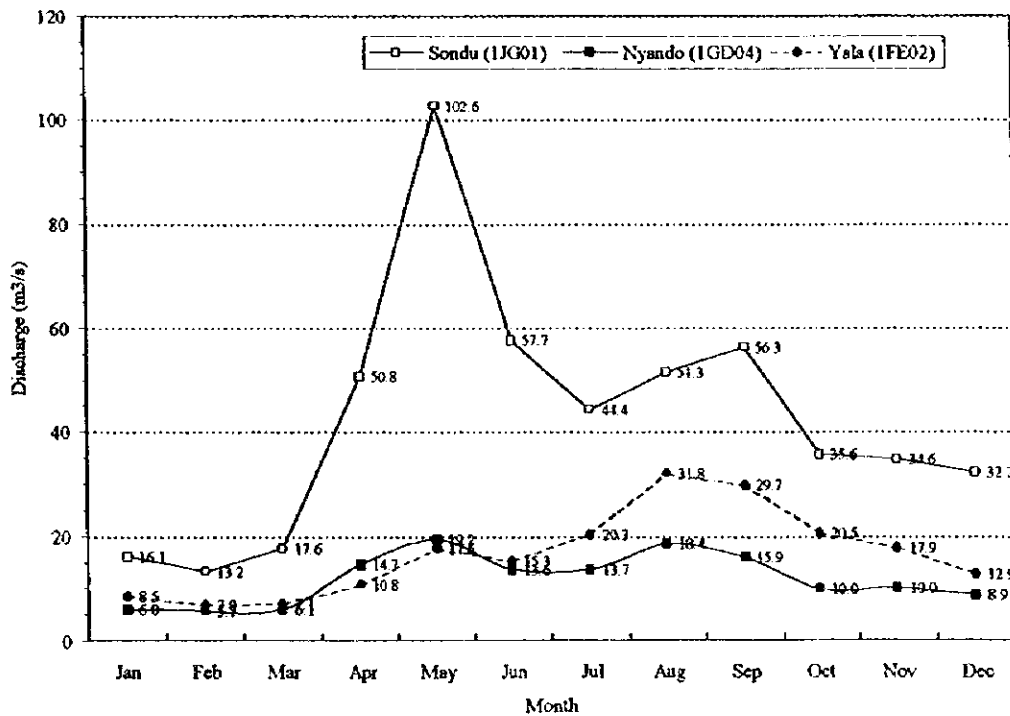
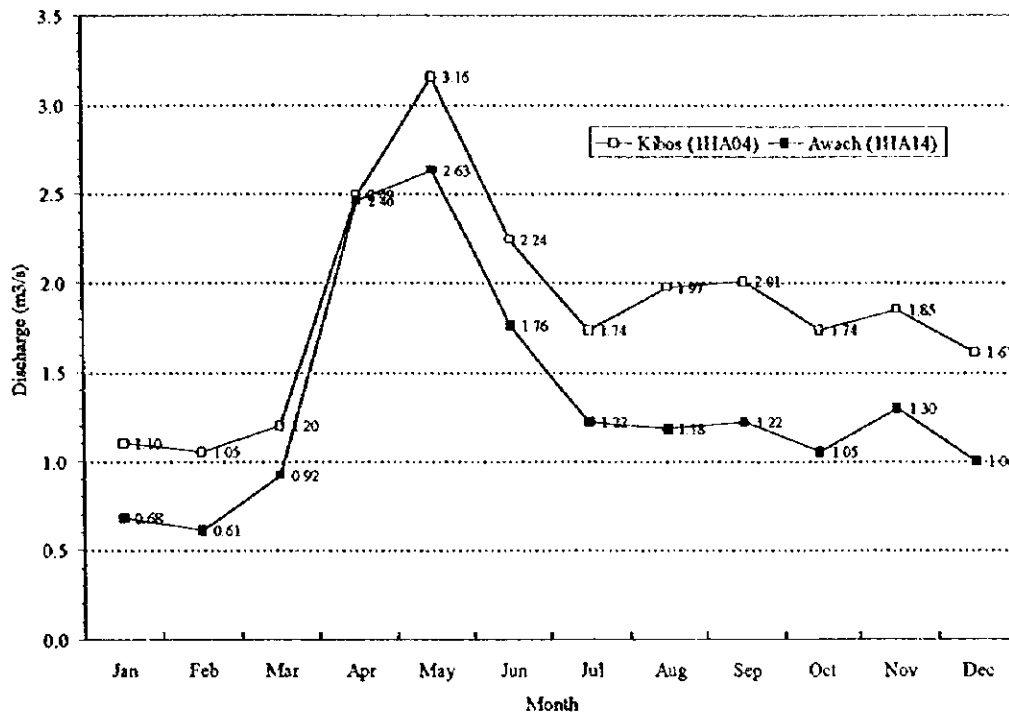


NB: ZERO OF THE KISUMU GAUGE = 1122.34 (M.A.S.L.)
 SOURCE (1899-SEP 1964): LAKE BASIN RIVER CATCHMENT DEVELOPMENT
 RIVER PROFILE STUDIES, VOLUME III, ANNEX A, OCTOBER 1985.

Source:
 LBDA (1992, January) "Feasibility Study on Kano Plain Irrigation Project -
 Vol. II-1 Annexes, Annex I Meteorology and Hydrology". JICA.

THE REPUBLIC OF KENYA THE MINISTRY OF LOCAL AUTHORITIES KISUMU MUNICIPAL COUNCIL	THE STUDY ON KISUMU WATER SUPPLY AND SEWERAGE SYSTEM JAPAN INTERNATIONAL COOPERATION AGENCY	TITLE : Fluctuation of Lake Victoria Water Level
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Figure A2-7

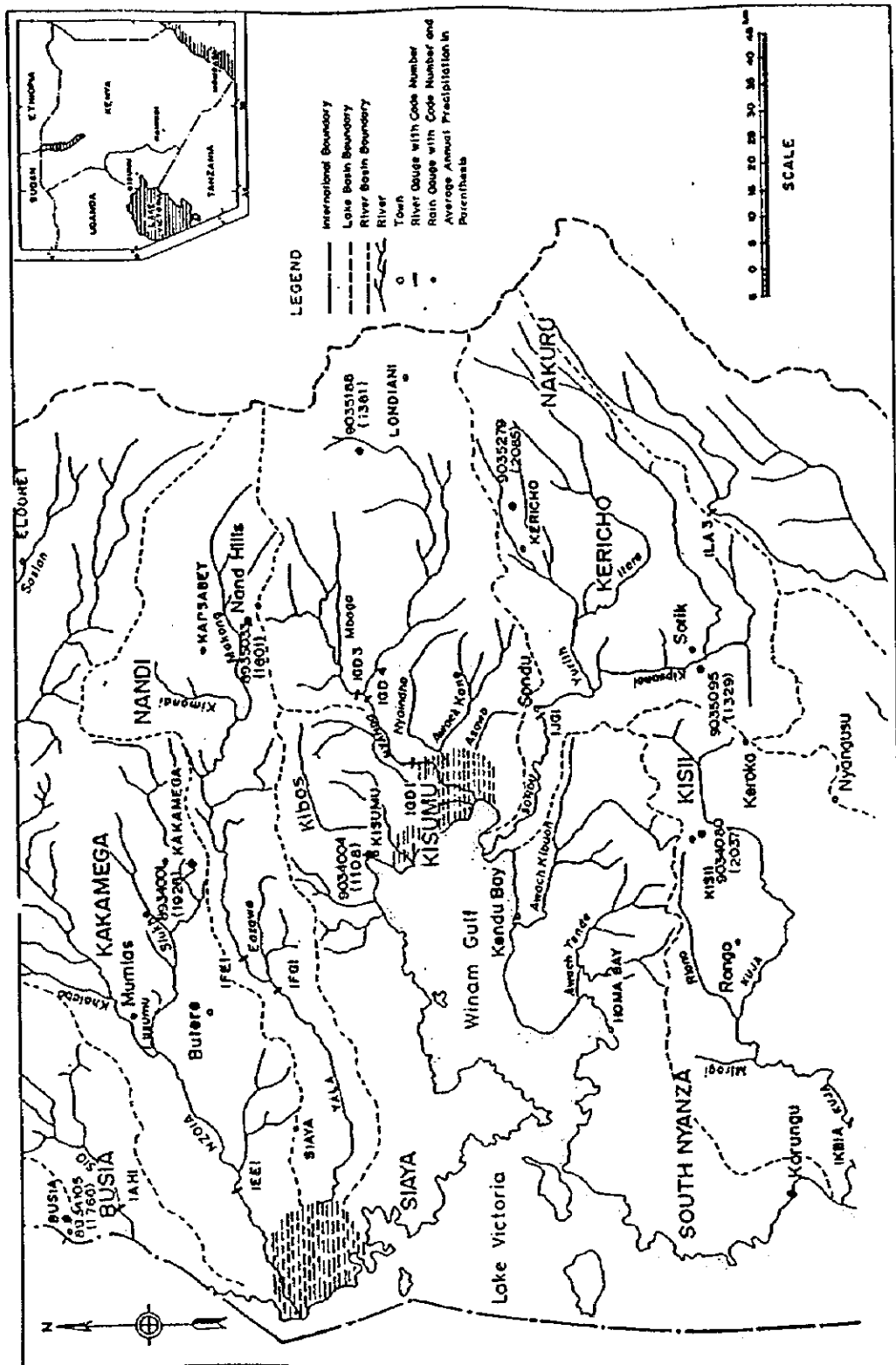


Source:

- 1: LBDA (1992) "Feasibility Study on Kano Plain Irrigation Project - Vol. II-1 Annexes, Annex I Meteorology and Hydrology". JICA.
- 2: MOWR (1992) "The Study on the National Water Master Plan - Data Book (DB.1) Hydrological Data (Study Supporting Data)". JICA

THE REPUBLIC OF KENYA	THE STUDY ON KISUMU WATER SUPPLY AND SEWERAGE SYSTEM	TITLE : Monthly Mean Flow of Rivers
THE MINISTRY OF LOCAL AUTHORITIES KISUMU MUNICIPAL COUNCIL	JAPAN INTERNATIONAL COOPERATION AGENCY	

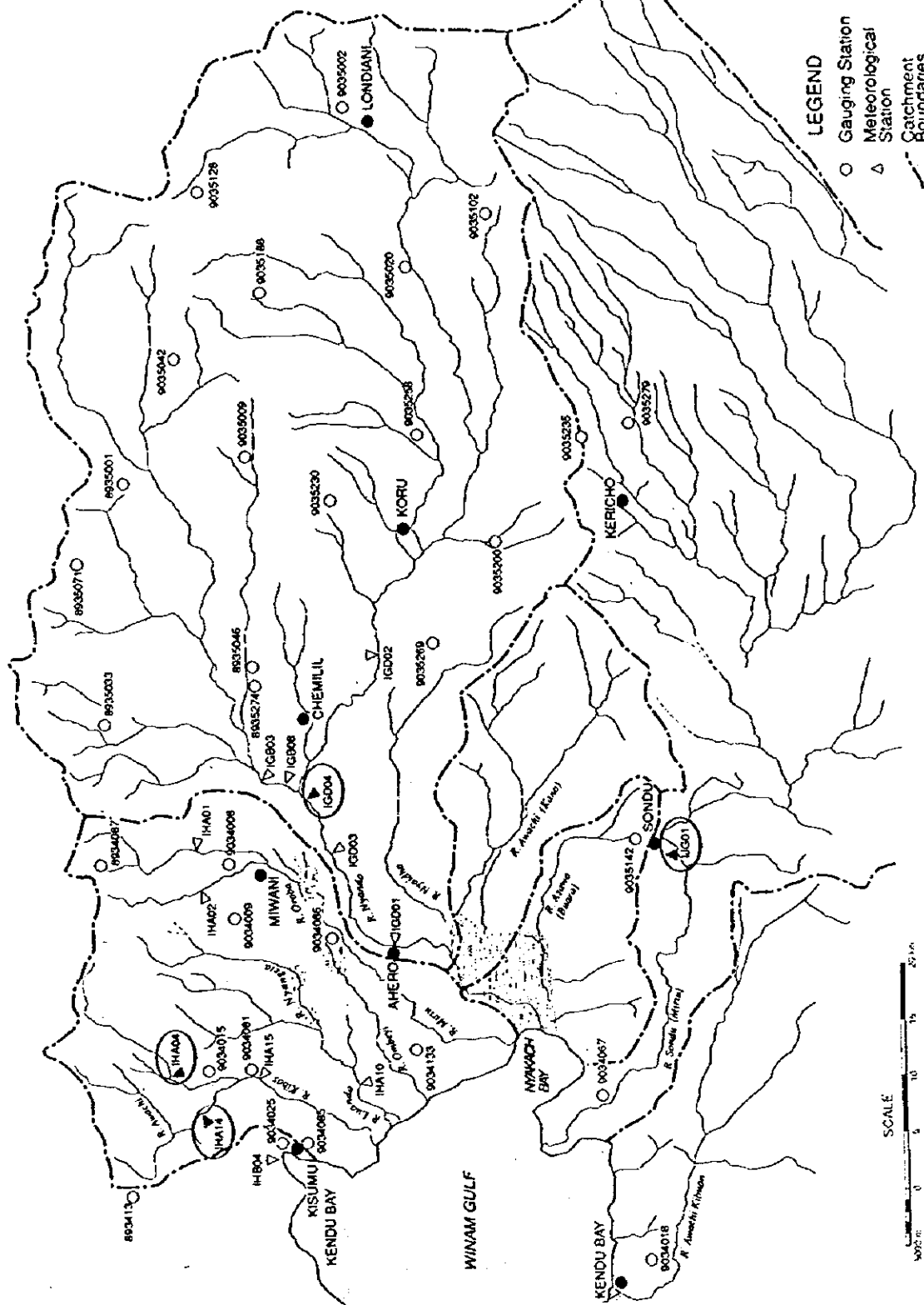
Figure A3-1



Source: LBDA (1987, October) "The Study of Integrated Regional Development Master Plan for the Lake Basin Development Area - Final Report Vol. 5, Sector Report 3, Water Resources/Transportation/Energy". JICA.

<p>THE REPUBLIC OF KENYA</p> <p>THE MINISTRY OF LOCAL AUTHORITIES</p> <p>KISUMU MUNICIPAL COUNCIL</p>	<p>THE STUDY ON KISUMU WATER SUPPLY AND SEWERAGE SYSTEM</p> <p>JAPAN INTERNATIONAL COOPERATION AGENCY</p>	<p>TITLE :</p> <p>River Systems in Lake Basin</p>
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Figure A3-2



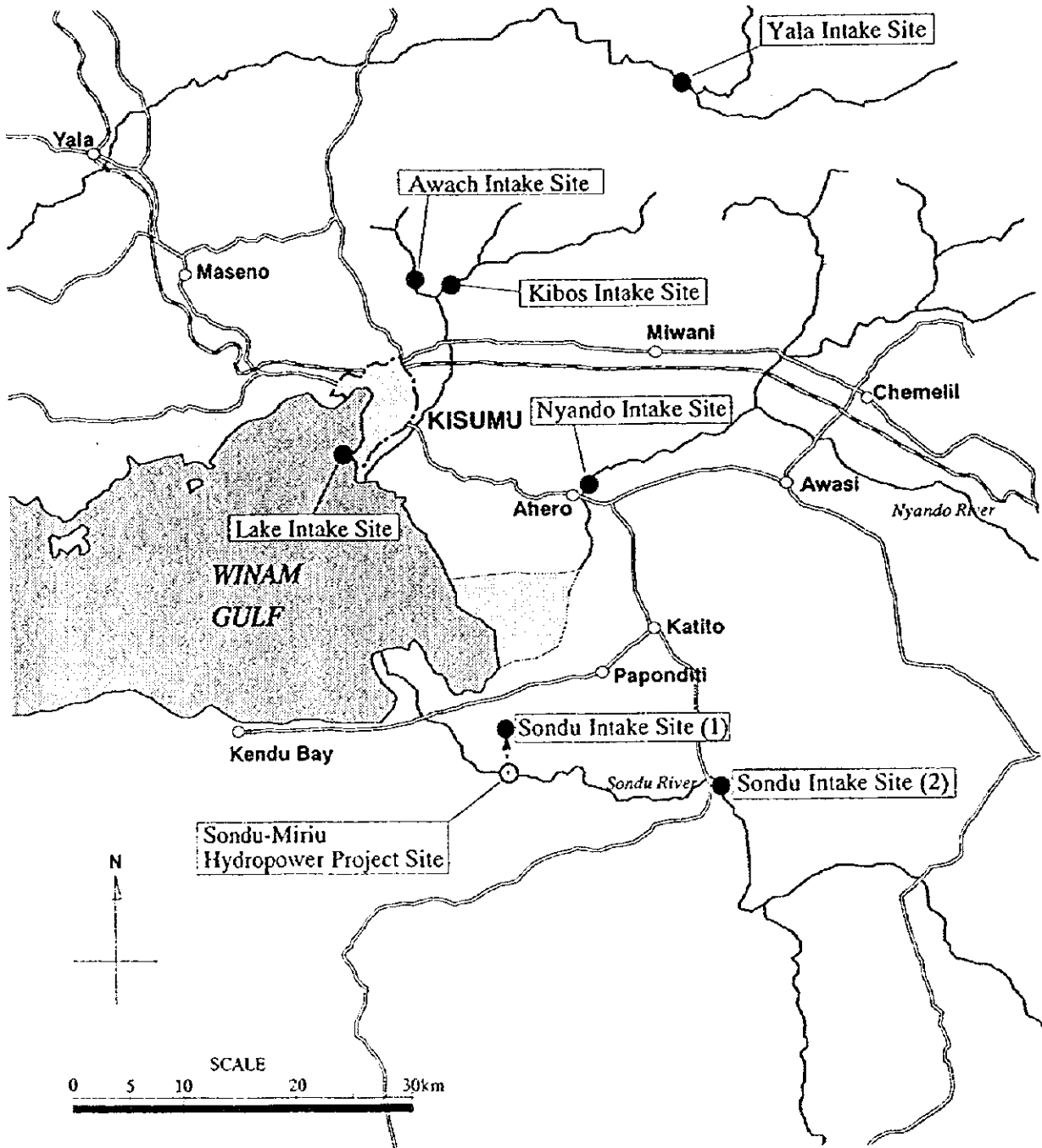
Source: LBDA (1992, January) "Feasibility Study on Kano Plain Irrigation Project - Vol. II-1 Annexes, Annex I Meteorology and Hydrology". JICA.

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AND SEWERAGE SYSTEM
JAPAN INTERNATIONAL COOPERATION
AGENCY

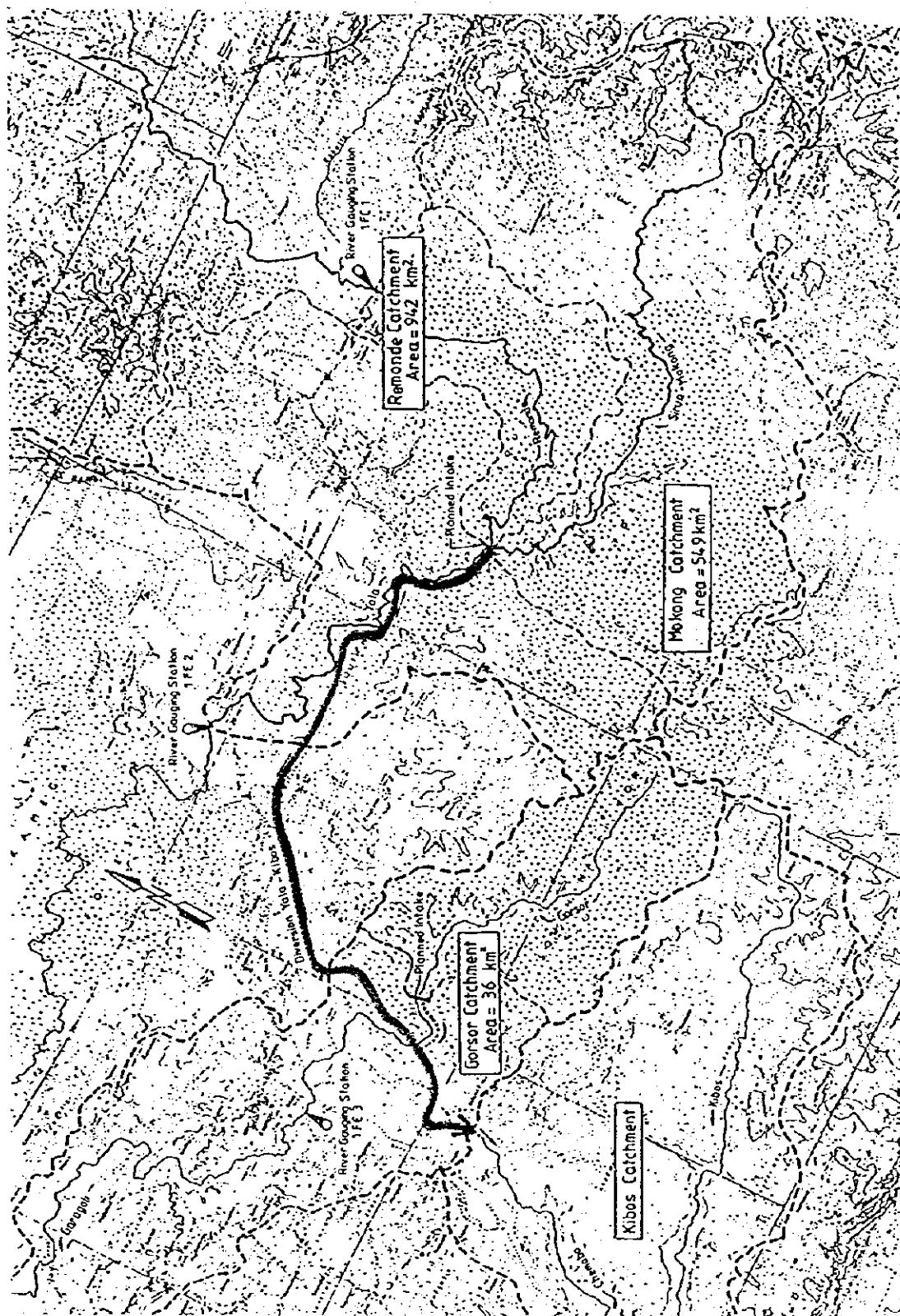
TITLE :
Location of Objective Water
Level Gauging Stations

Figure A3-3



<p>THE REPUBLIC OF KENYA</p> <p>THE MINISTRY OF LOCAL AUTHORITIES</p> <p>KISUMU MUNICIPAL COUNCIL</p>	<p>THE STUDY ON KISUMU WATER SUPPLY AND SEWERAGE SYSTEM</p> <p>JAPAN INTERNATIONAL COOPERATION AGENCY</p>	<p>TITLE :</p> <p>General Location of Available Intake Sites</p>
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Figure A3-4



Source:
 MOLA (1985, November) "Kisumu Water Supply and Sanitation Study - Feasibility Study,
 Vol. III B, Appendices 7 Hydrology". H.P. Gault GmbH & Co Consulting Engineers.

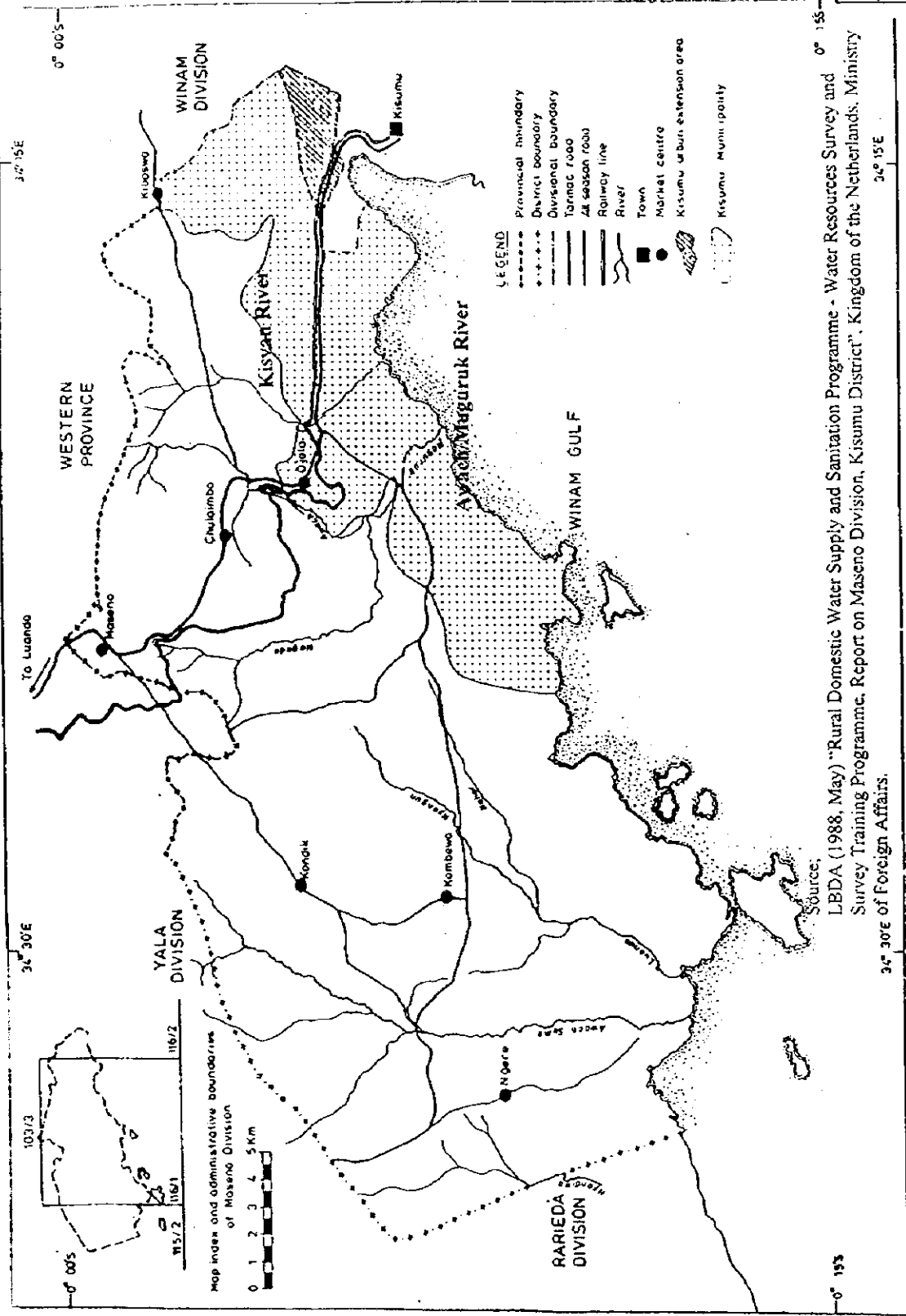


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 JAPAN INTERNATIONAL COOPERATION
 AGENCY

TITLE :
 Diversion Yala-Kibos
 Proposed by Previous Study

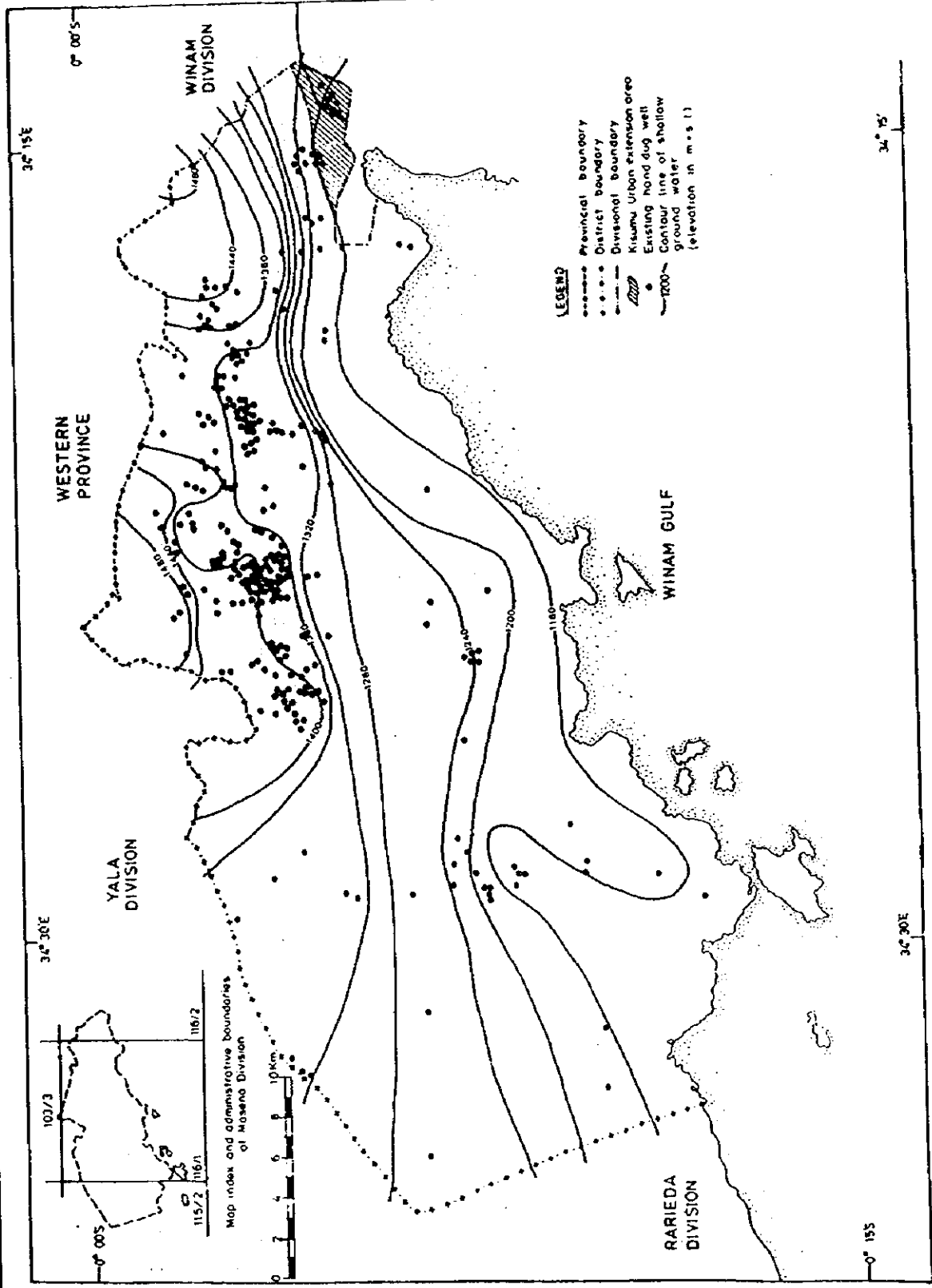
Figure A3-5



Source:
 LBDA (1988, May) "Rural Domestic Water Supply and Sanitation Programme - Water Resources Survey and Survey Training Programme, Report on Maseno Division, Kisumu District", Kingdom of the Netherlands, Ministry of Foreign Affairs.

<p>THE REPUBLIC OF KENYA</p> <p>THE MINISTRY OF LOCAL AUTHORITIES</p> <p>KISUMU MUNICIPAL COUNCIL</p>	<p>THE STUDY ON KISUMU WATER SUPPLY AND SEWERAGE SYSTEM</p> <p>JAPAN INTERNATIONAL COOPERATION AGENCY</p>	<p>TITLE :</p> <p>Location of Local Catchment for Rural Water Supply</p>
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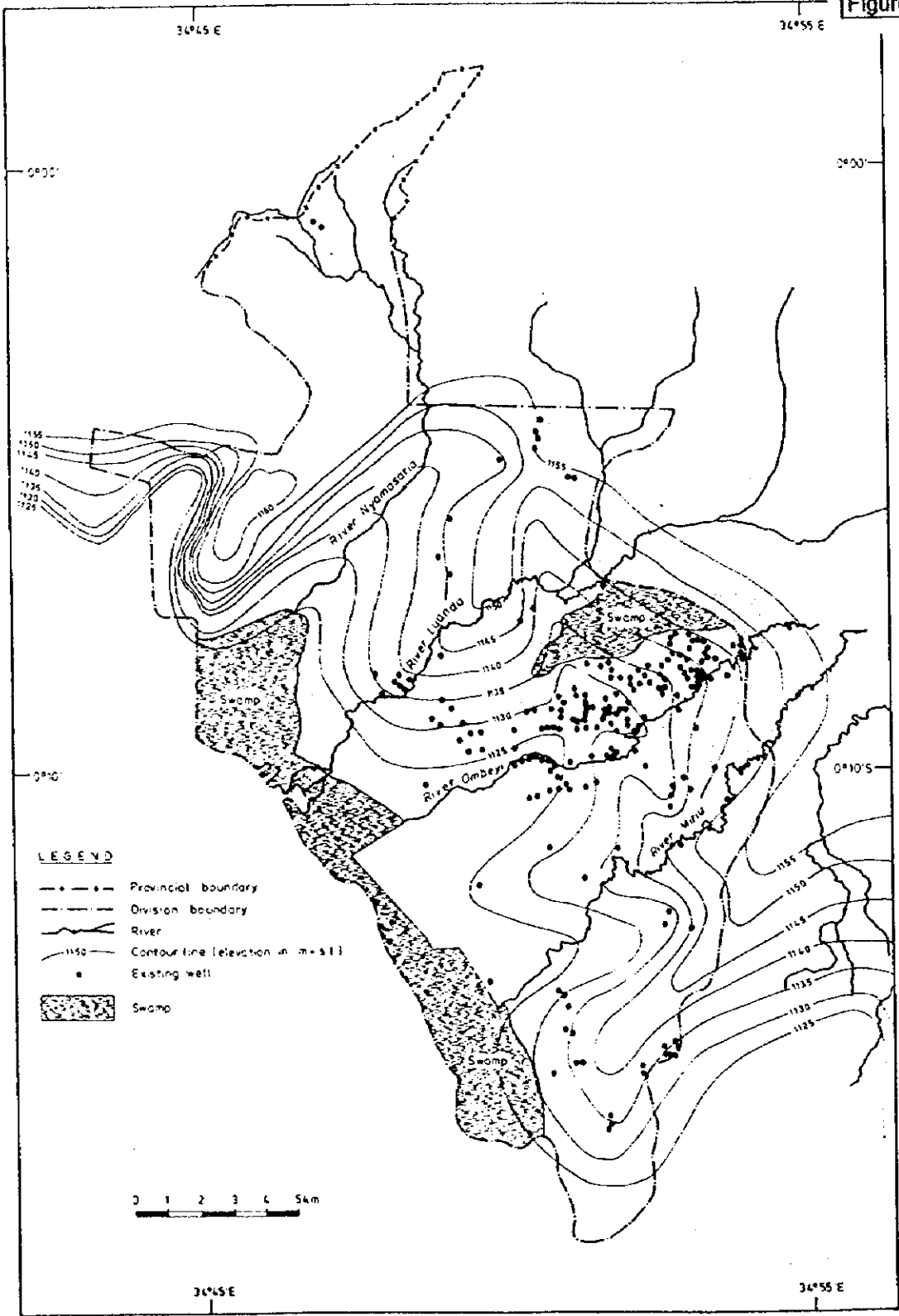
Figure A3-6 (1/2)



Source: LBDA (1988, May) "Rural Domestic Water Supply and Sanitation Programme - Water Resources Survey and Survey Training Programme, Report on Maseno Division, Kisumu District", Kingdom of the Netherlands, Ministry of Foreign Affairs.

<p>THE REPUBLIC OF KENYA</p> <p>THE MINISTRY OF LOCAL AUTHORITIES</p> <p>KISUMU MUNICIPAL COUNCIL</p>	<p>THE STUDY ON KISUMU WATER SUPPLY AND SEWERAGE SYSTEM</p> <p>JAPAN INTERNATIONAL COOPERATION AGENCY</p>	<p>TITLE :</p> <p>Contour Lines of Shallow Ground Water</p>
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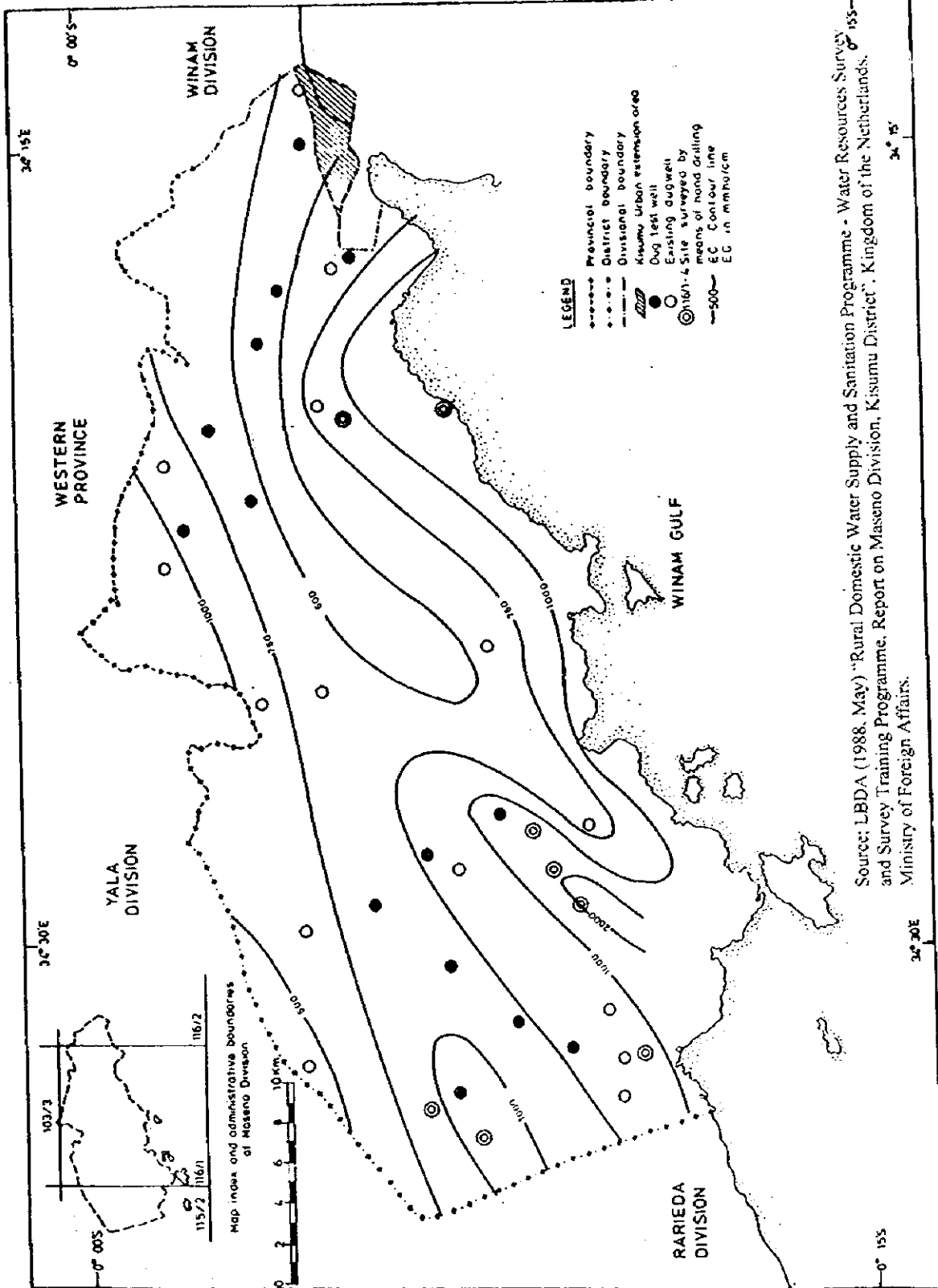
Figure A3-6 (2/2)



Source; LBDA (1987, June) "Rural Domestic Water Supply and Sanitation Programme - Water Resources Survey and Survey Training Programme, Report on Winam Division, Kisumu District", Kingdom of the Netherlands, Ministry of Foreign Affairs.

<p>THE REPUBLIC OF KENYA</p> <p>THE MINISTRY OF LOCAL AUTHORITIES KISUMU MUNICIPAL COUNCIL</p>	<p>THE STUDY ON KISUMU WATER SUPPLY AND SEWERAGE SYSTEM</p> <hr/> <p>JAPAN INTERNATIONAL COOPERATION AGENCY</p>	<p>TITLE :</p> <p>Contour Line of Shallow Ground Water</p>
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Figure A3-7 (1/2)



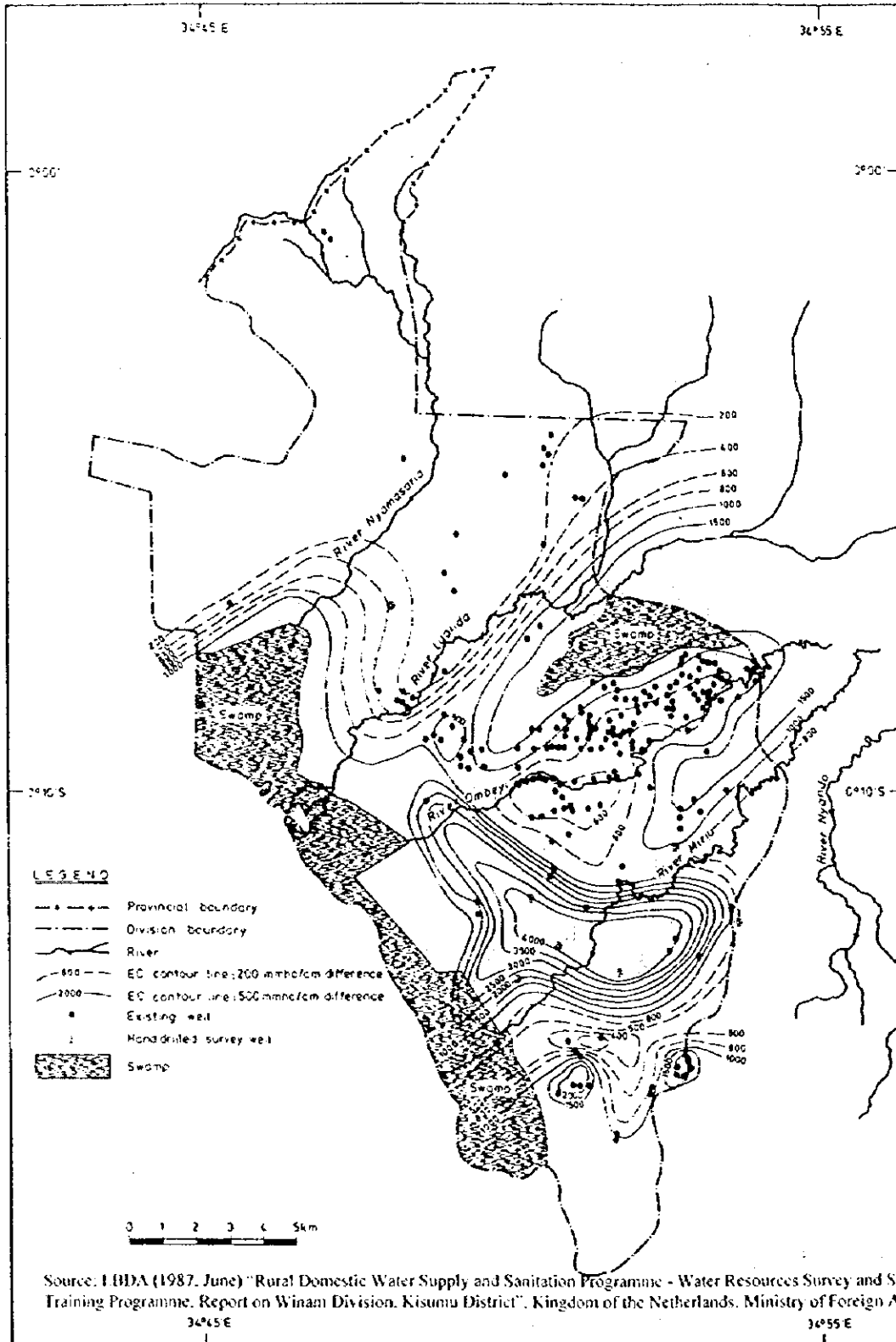
Source: LBDA (1988, May) "Rural Domestic Water Supply and Sanitation Programme - Water Resources Survey and Survey Training Programme, Report on Maseno Division, Kisumu District", Kingdom of the Netherlands, Ministry of Foreign Affairs.

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AND SEWERAGE SYSTEM
JAPAN INTERNATIONAL COOPERATION
AGENCY

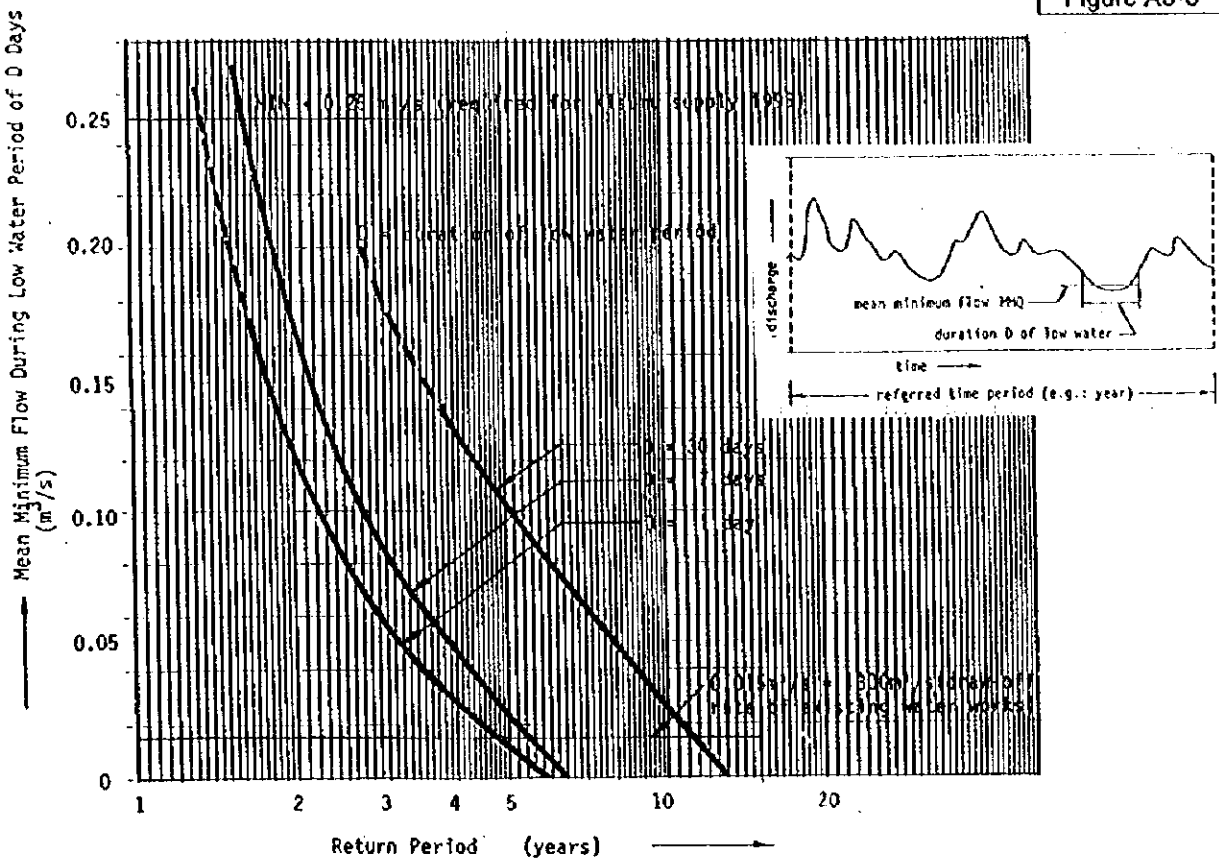
TITLE :
Electrical Conductivity
of Shallow Ground Water

Figure A3-7 (2/2)



<p>THE REPUBLIC OF KENYA</p> <p>THE MINISTRY OF LOCAL AUTHORITIES</p> <p>KISUMU MUNICIPAL COUNCIL</p>	<p>THE STUDY ON KISUMU WATER SUPPLY AND SEWERAGE SYSTEM</p> <p>JAPAN INTERNATIONAL COOPERATION AGENCY</p>	<p>TITLE :</p> <p>Electrical Conductivity of Shallow Ground Water</p>
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Figure A3-8

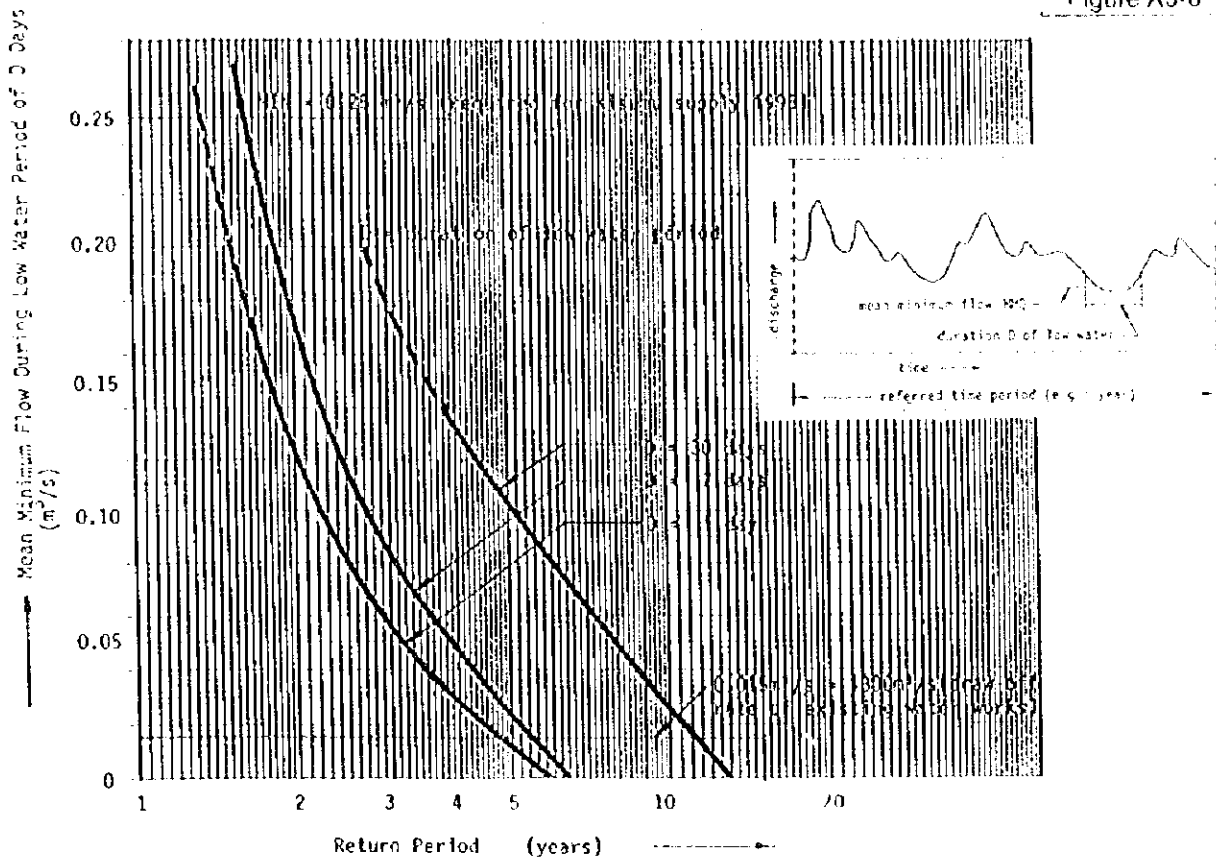


DURATION OF LOW WATER PERIOD (days)	NUMBER OF YEARS WITH DISCHARGE > 0 DURING L.W. PERIOD	PERCENTAGE OF YEARS WITH DISCHARGE > 0 DURING L.W. PERIOD	DISTRIBUTION FUNCTION FOR EXTRAPOLATION	d ⁰ d _{max}	Min. Mean Flow During L.W. Period ≠ Tabelled Values (m³/s)				
					2	5	10	20	50
1 day	41	83,7%	1gPearson III	0,108 0,238	0,17	0,06	0,03	0,02	0,01
					adjusted return period: 1,70 2,94 3,89 4,63 5,23				
2 days	41	83,7%	1gPearson III	0,126 0,232	0,18	0,06	0,03	0,02	0,01
					adjusted return period: 1,70 2,94 3,89 4,63 5,23				
3 days	41	83,7%	1gPearson III	0,168 0,232	0,19	0,07	0,03	0,02	0,01
					adjusted return period: 1,70 2,94 3,89 4,63 5,23				
5 days	41	83,7%	1gPearson III	0,120 0,232	0,22	0,08	0,04	0,02	0,01
					adjusted return period: 1,70 2,94 3,89 4,63 5,23				
7 days	41	83,7%	1gPearson III	0,139 0,232	0,24	0,09	0,05	0,03	0,02
					adjusted return period: 1,70 2,94 3,89 4,63 5,23				
9 days	43	87,8%	1gPearson III	0,141 0,230	0,24	0,08	0,04	0,02	0,01
					adjusted return period: 1,76 3,25 4,53 5,64 6,60				
14 days	46	93,9%	1gPearson III	0,144 0,220	0,24	0,08	0,04	0,02	0,01
					adjusted return period: 1,86 3,87 6,03 8,37 10,90				
21 days	46	93,9%	1gPearson III	0,105 0,220		0,11	0,06	0,03	0,02
					adjusted return period: 1,86 3,87 6,03 8,37 10,90				
30 days	46	93,9%	1gPearson III	0,111 0,220		0,14	0,08	0,05	0,02
					adjusted return period: 3,87 6,03 8,37 10,90				

Source: MOLA (1985, November) "Kisumu Water Supply and Sanitation Study - Feasibility Study, Vol. III B, Appendices 7 Hydrology". HP Gauff GmbH & Co Consulting Engineers.

THE REPUBLIC OF KENYA THE MINISTRY OF LOCAL AUTHORITIES KISUMU MUNICIPAL COUNCIL	THE STUDY ON KISUMU WATER SUPPLY AND SEWERAGE SYSTEM	TITLE : Probable Minimum Flow of Kibos River (1HA04)
	JAPAN INTERNATIONAL COOPERATION AGENCY	

Figure A3-8

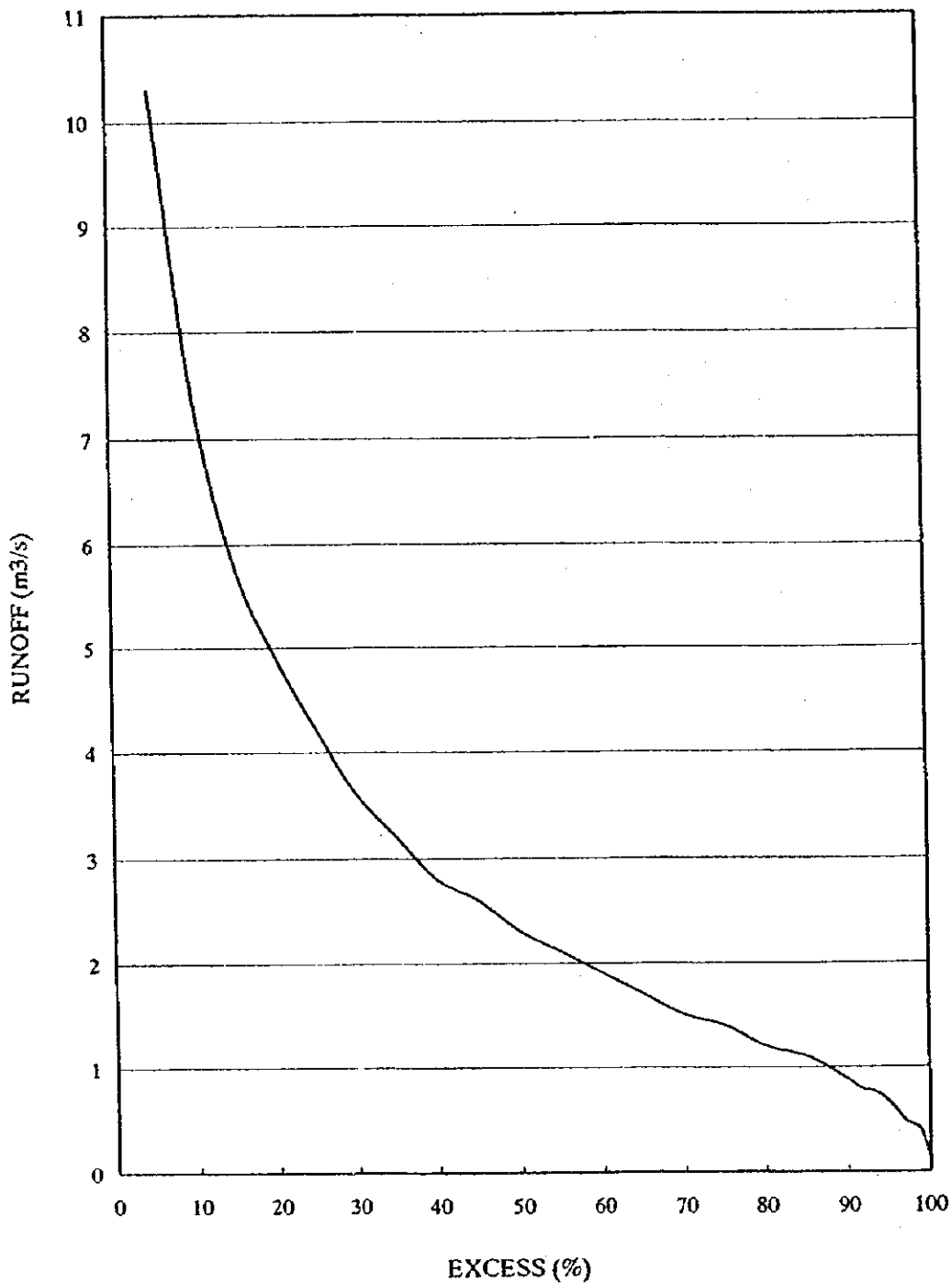


DURATION OF LOW WATER PERIOD (days)	NUMBER OF YEARS WITH DISCHARGE DURING L.W. PERIOD	PERCENTAGE OF YEARS WITH DISCHARGE > 0 DURING L.W. PERIOD	DISTRIBUTION FUNCTION FOR EXTRAPOLATION	d*) d _{max}	Min. Mean Flow During L.W. Period = Labelled Values (m³/s)				
					2	5	10	20	50
1 day	41	83,7%	1gPearson III	0,168 0,239	0,17	0,06	0,03	0,02	0,01
					adjusted return period: 1,70 2,94 3,89 4,63 5,23				
2 days	41	83,7%	1gPearson III	0,126 0,232	0,18	0,06	0,03	0,02	0,01
					adjusted return period: 1,70 2,94 3,89 4,63 5,23				
3 days	41	83,7%	1gPearson III	0,168 0,232	0,19	0,07	0,03	0,02	0,01
					adjusted return period: 1,70 2,94 3,89 4,63 5,23				
5 days	41	83,7%	1gPearson III	0,170 0,232	0,22	0,08	0,04	0,02	0,01
					adjusted return period: 1,70 2,94 3,89 4,63 5,23				
7 days	41	83,7%	1gPearson III	0,133 0,232	0,24	0,09	0,05	0,03	0,02
					adjusted return period: 1,70 2,94 3,89 4,63 5,23				
9 days	43	87,6%	1gPearson III	0,181 0,233	0,24	0,08	0,04	0,02	0,01
					adjusted return period: 1,76 3,25 4,53 5,64 6,60				
14 days	46	93,9%	1gPearson III	0,144 0,220	0,24	0,08	0,04	0,02	0,01
					adjusted return period: 1,86 3,87 6,03 8,37 10,90				
21 days	46	93,9%	1gPearson III	0,105 0,220	0,11	0,06	0,03	0,02	0,01
					adjusted return period: 1,86 3,87 6,03 8,37 10,90				
30 days	46	93,9%	1gPearson III	0,111 0,220	0,14	0,08	0,05	0,02	0,01
					adjusted return period: 3,87 6,03 8,37 10,90				

Source: MOLA (1985, November) "Kisumu Water Supply and Sanitation Study - Feasibility Study, Vol. III B, Appendices 7 Hydrology". H P Gauff GmbH & Co Consulting Engineers.

THE REPUBLIC OF KENYA THE MINISTRY OF LOCAL AUTHORITIES KISUMU MUNICIPAL COUNCIL	THE STUDY ON KISUMU WATER SUPPLY AND SEWERAGE SYSTEM	TITLE : Probable Minimum Flow of Kibos River (11A04)
	JAPAN INTERNATIONAL COOPERATION AGENCY	

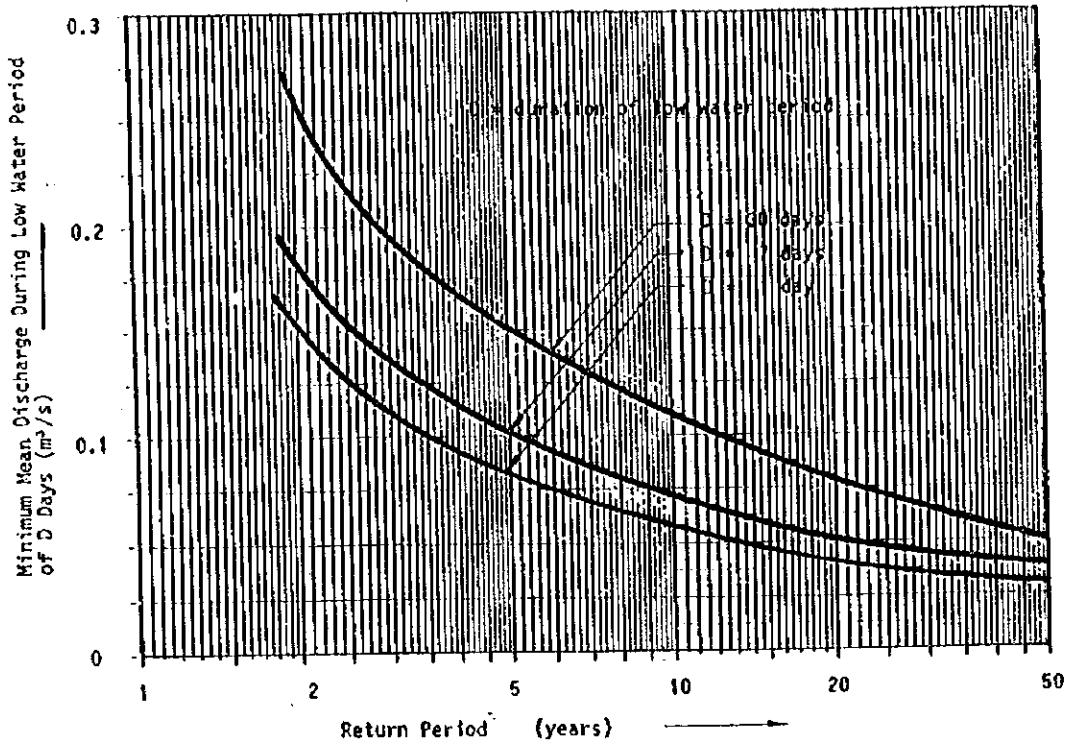
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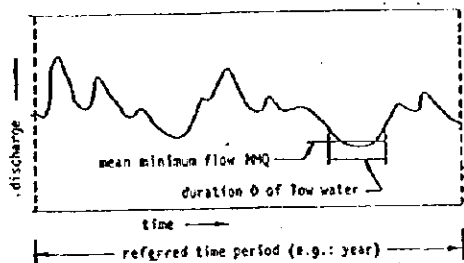
Source; Daily flow data during 1957 and 1982 in MOLA (1985, November) "Kisumu Water Supply and Sanitation Study - Feasibility Study, Vol. III B, Appendices 7 Hydrology". H P Gauff GmbH & Co Consulting Engineers.

<p>THE REPUBLIC OF KENYA</p> <p>THE MINISTRY OF LOCAL AUTHORITIES</p> <p>KISUMU MUNICIPAL COUNCIL</p>	<p>THE STUDY ON KISUMU WATER SUPPLY AND SEWERAGE SYSTEM</p> <p>JAPAN INTERNATIONAL COOPERATION AGENCY</p>	<p>TITLE :</p> <p>Flow Duration Curve of Kibos River (1HA04)</p>
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Figure A3-10



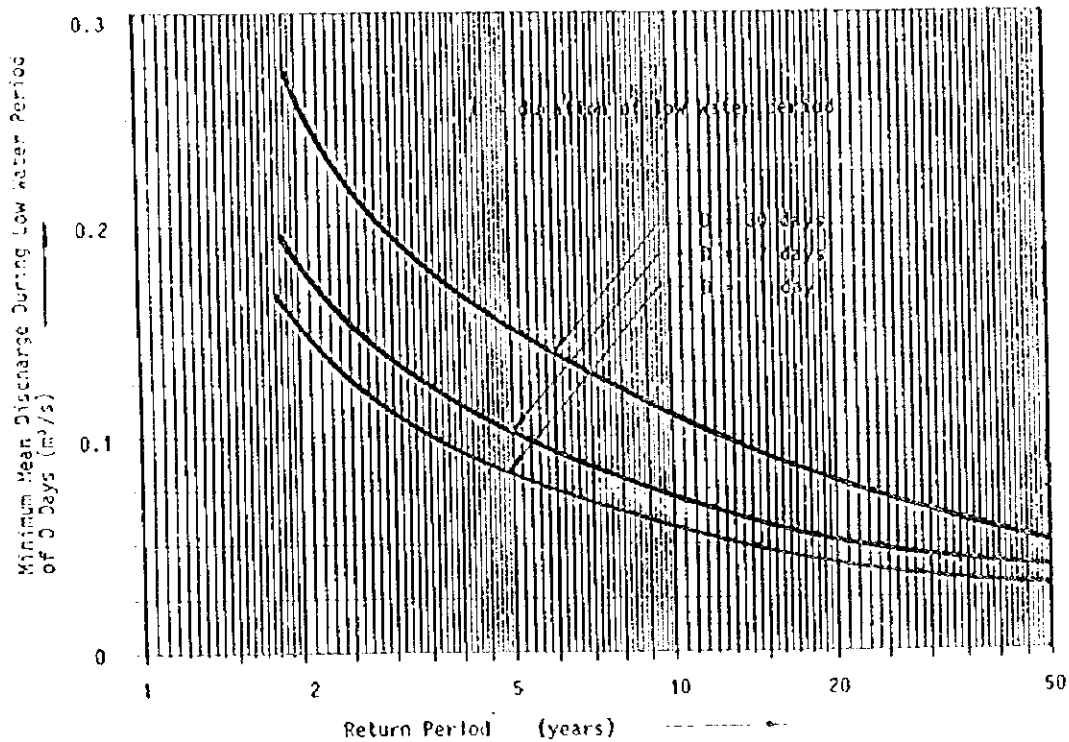
DURATION OF LOW WATER PERIOD (days)	SKEWNESS COEFFICIENT C_s	DISTRIBUTION FUNCTION FOR EXTRAPOLATION	d^*	d_{max}	Minimum Flow During Low Water Period \leq Labelled Values				
					ret. period: 2 prob.: n=0,5	5 n=0,2	10 n=0,10	20 n=0,05	50 n=0,02
1	- 0,355	lgPearson III	0,100	0,170	0,15	0,08	0,06	0,04	0,03
3	- 0,446	lgPearson III	0,129	0,170	0,16	0,09	0,06	0,04	0,03
5	- 0,462	lgPearson III	0,126	0,170	0,17	0,09	0,07	0,05	0,04
7	- 0,430	lgPearson III	0,122	0,170	0,18	0,10	0,07	0,05	0,04
9	- 0,446	lgPearson III	0,132	0,170	0,18	0,10	0,07	0,06	0,04
14	- 0,420	lgPearson III	0,098	0,170	0,21	0,12	0,09	0,06	0,05
21	- 0,445	lgPearson III	0,119	0,170	0,22	0,13	0,09	0,07	0,05
30	- 0,667	lgPearson III	0,104	0,170	0,26	0,15	0,11	0,08	0,05



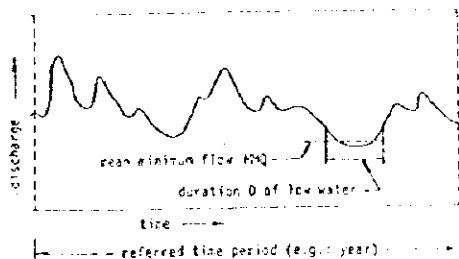
Source: MOLA (1985, November) "Kisumu Water Supply and Sanitation Study - Feasibility Study, Vol. III B, Appendices 7 Hydrology". H P Gauff GmbH & Co Consulting Engineers.

THE REPUBLIC OF KENYA THE MINISTRY OF LOCAL AUTHORITIES KISUMU MUNICIPAL COUNCIL	THE STUDY ON KISUMU WATER SUPPLY AND SEWERAGE SYSTEM	TITLE : Probable Minimum Flow of Awach River (1HA14)
	JAPAN INTERNATIONAL COOPERATION AGENCY	

Figure A3-10



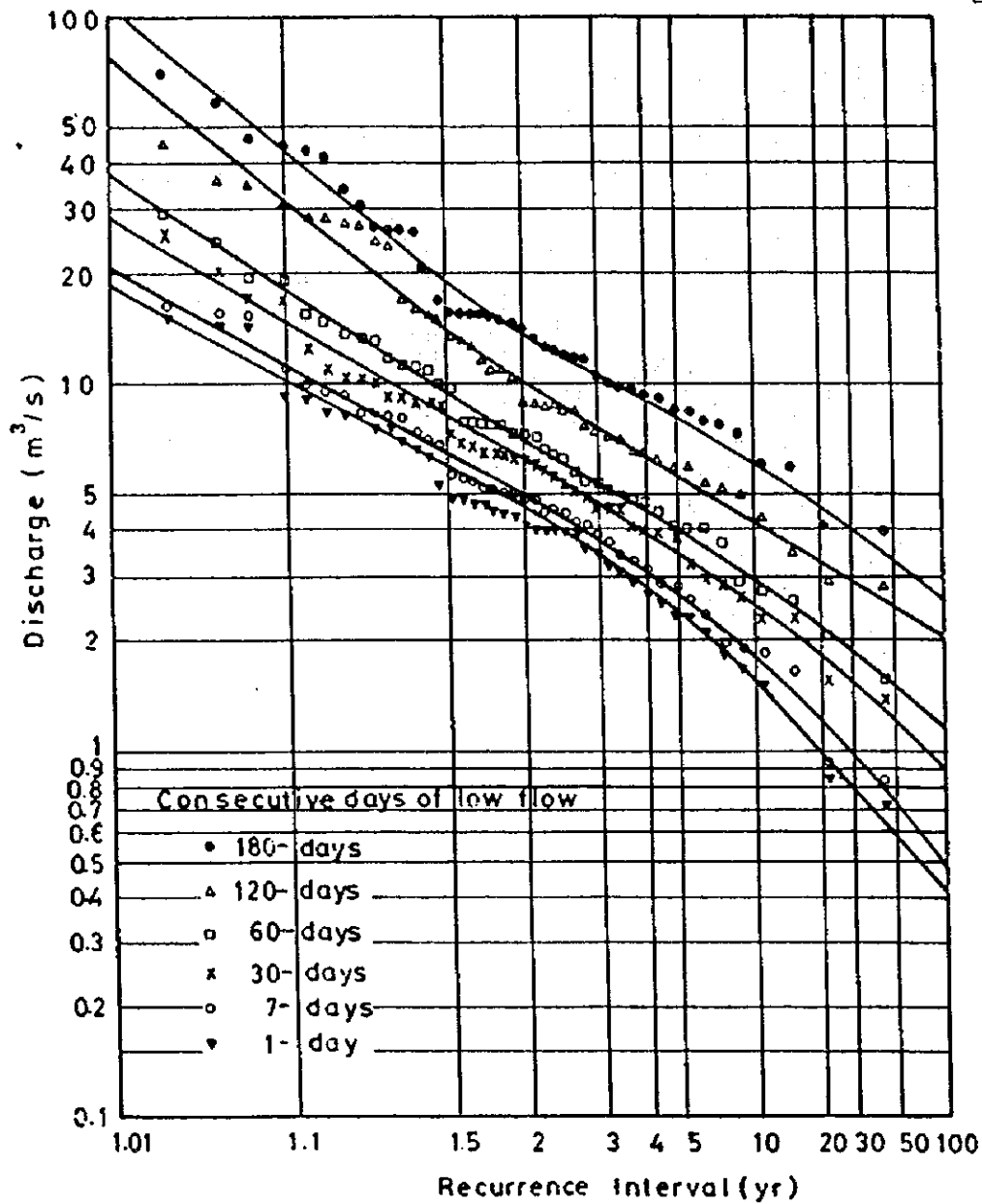
DURATION OF LOW WATER PERIOD (days)	SKEWNESS COEFFICIENT C_s	DISTRIBUTION FUNCTION FOR EXTRAPOLATION	d^*	d_{max}	Minimum Flow During Low Water Period \leq Labelled Values				
					ret. period: 2 prob.: n=0,5	5 n=0,2	10 n=0,10	20 n=0,05	50 n=0,02
1	- 0,355	IgPearson III	0,100	0,170	0,15	0,08	0,06	0,04	0,03
3	- 0,446	IgPearson III	0,129	0,170	0,16	0,09	0,06	0,04	0,03
5	- 0,462	IgPearson III	0,126	0,170	0,17	0,09	0,07	0,05	0,04
7	- 0,430	IgPearson III	0,122	0,170	0,18	0,10	0,07	0,05	0,04
9	- 0,446	IgPearson III	0,132	0,170	0,18	0,10	0,07	0,06	0,04
14	- 0,420	IgPearson III	0,098	0,170	0,21	0,12	0,09	0,06	0,05
21	- 0,445	IgPearson III	0,119	0,170	0,22	0,13	0,09	0,07	0,05
30	- 0,667	IgPearson III	0,104	0,170	0,26	0,15	0,11	0,08	0,05



Source, MOIA (1985, November) "Kisumu Water Supply and Sanitation Study - Feasibility Study, Vol. III B, Appendices 7 Hydrology". IIP Gauff GmbH & Co Consulting Engineers.

THE REPUBLIC OF KENYA THE MINISTRY OF LOCAL AUTHORITIES KISUMU MUNICIPAL COUNCIL	THE STUDY ON KISUMU WATER SUPPLY AND SEWERAGE SYSTEM	TITLE : Probable Minimum Flow of Awach River (1HA14)
	JAPAN INTERNATIONAL COOPERATION AGENCY	

Figure A3-11



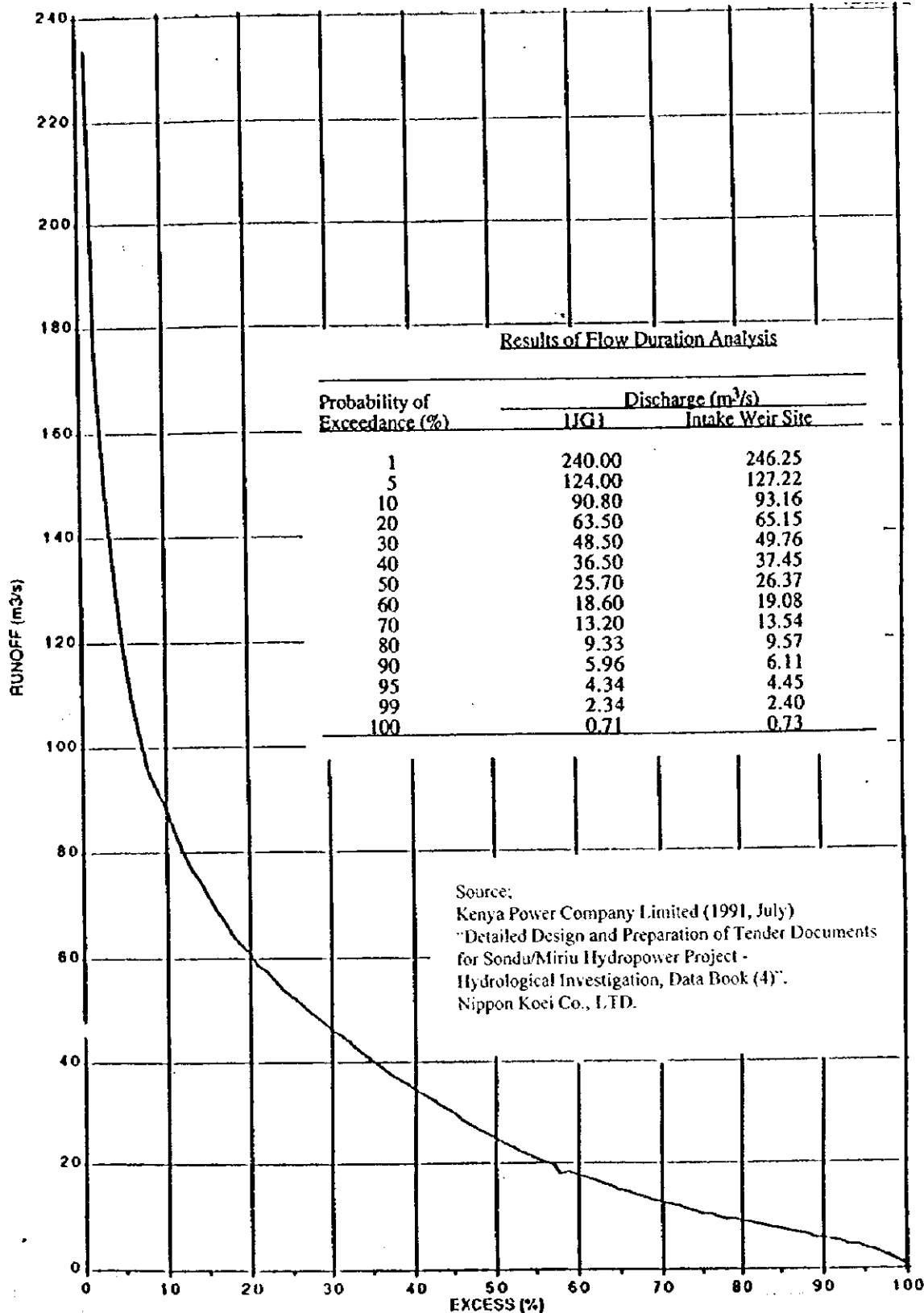
Frequency and Duration of Drought of Sondu River at IJGI Station
(Unit: m³/s)

Return Period	Duration (day)					
	1	7	30	60	120	180
2	4.5	4.9	6.2	7.7	10.3	12.5
5	2.4	2.6	3.4	4.4	6.2	7.8
10	1.6	1.8	2.4	3.2	4.6	6.1
30	0.8	0.95	1.47	2.05	3.1	3.9
100	0.43	0.52	0.85	1.28	2.02	2.65

Source; Kenya Power Company Limited (1991, July) "Detailed Design and Preparation of Tender Documents for Sondu/Miritu Hydropower Project - Hydrological Investigation, Data Book (4)". Nippon Koei Co., LTD.

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Figure A3-12



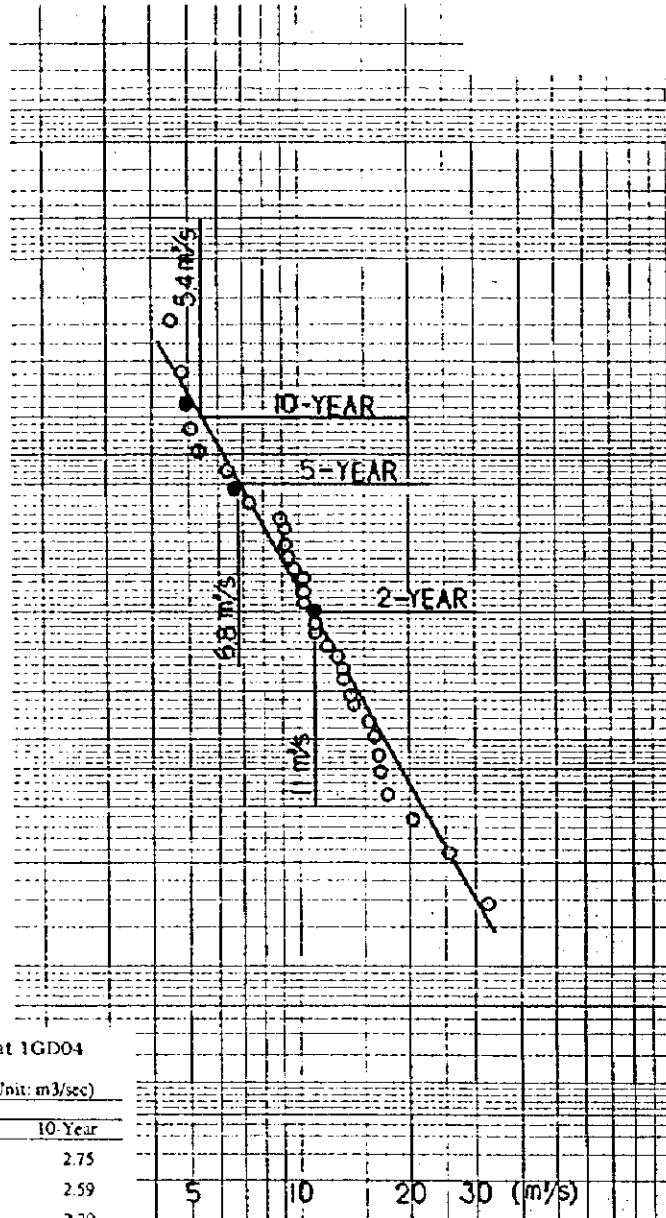
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TITLE :
 Flow Duration Curve
 of Sondu River (1JG01)

Figure A3-13

Plotting Position			
Order	Annual Weibull Mean Flow (m ³ /s)	Plot (%)	Year
1	4.47	97.05	1984
2	4.79	94.11	1987
3	4.90	91.17	1959
4	5.03	88.23	1965
5	5.36	85.29	1986
6	6.35	82.35	1969
7	6.60	79.41	1976
8	7.25	76.47	1980
9	8.87	73.52	1960
10	9.11	70.58	1958
11	9.22	67.64	1973
12	9.24	64.70	1974
13	9.80	61.76	1972
14	10.16	58.82	1983
15	10.17	55.88	1982
16	10.19	52.94	1966
17	10.95	50.00	1957
18	11.03	47.05	1988
19	11.08	44.11	1981
20	11.90	41.17	1971
21	12.68	38.23	1975
22	12.99	35.29	1985
23	13.01	32.35	1970
24	13.80	29.41	1979
25	13.97	26.47	1967
26	15.40	23.52	1961
27	15.90	20.58	1978
28	16.20	17.64	1977
29	16.53	14.70	1956
30	17.19	11.76	1968
31	20.51	8.82	1964
32	25.51	5.88	1963
33	31.05	2.94	1962



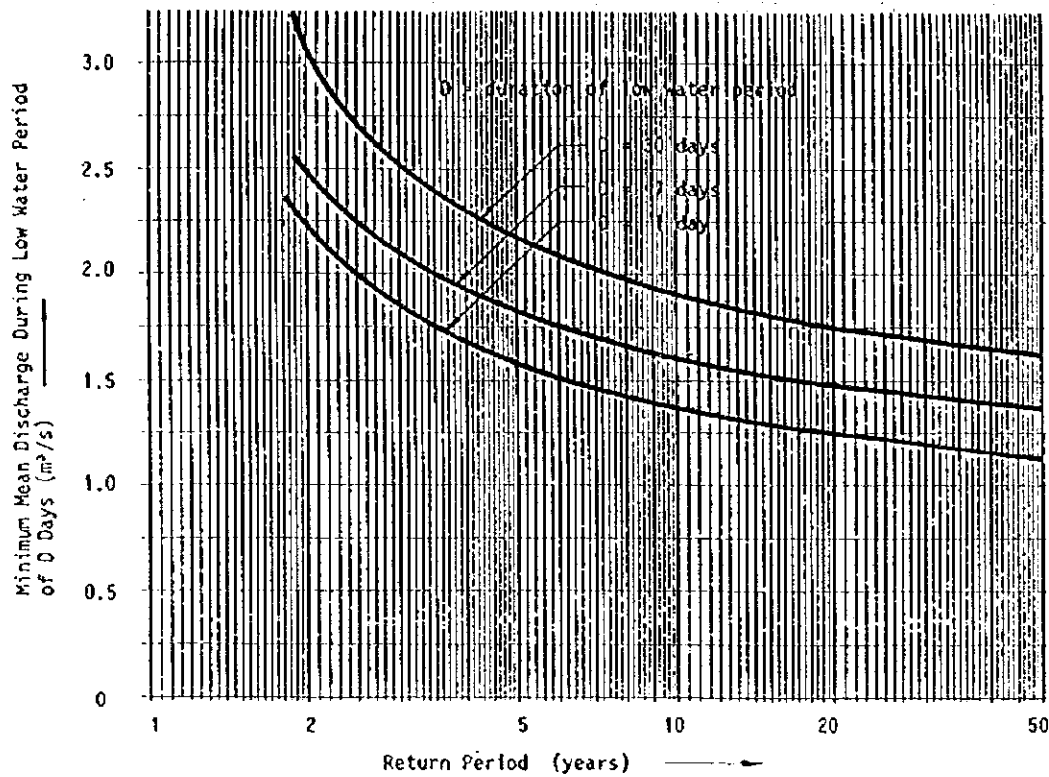
Typical Drought Monthly Discharge at 1GD04

Month	Return Period (Unit: m ³ /sec)		
	2-Year	5-Year	10-Year
Jan	5.60	3.46	2.75
Feb	5.28	3.27	2.59
Mar	5.69	3.52	2.79
Apr	13.65	8.44	6.70
May	17.86	11.04	8.77
Jun	12.63	7.81	6.20
Jul	12.72	7.86	6.24
Aug	17.07	10.55	8.38
Sep	14.79	9.14	7.26
Oct	9.25	5.72	4.54
Nov	9.25	5.72	4.54
Dec	8.25	5.10	4.05
Annual Mean	11.00	6.80	5.40

Source;
 Kenya Power Company Limited (1991, July)
 "Detailed Design and Preparation of Tender Documents
 for Sondu/Mirio Hydropower Project -
 Hydrological Investigation, Data Book (4)".
 Nippon Koei Co., LTD.

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	JAPAN INTERNATIONAL COOPERATION AGENCY	

Figure A3-14



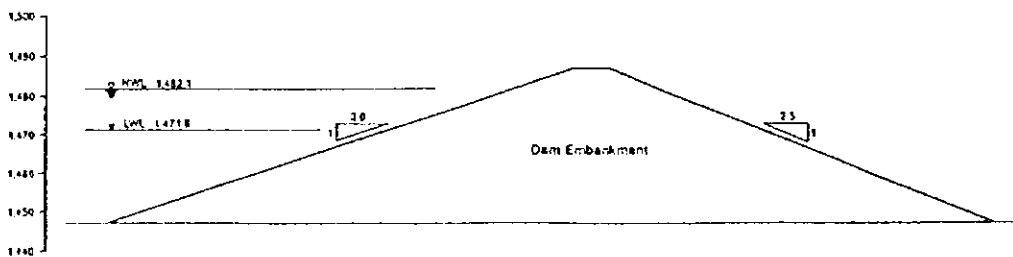
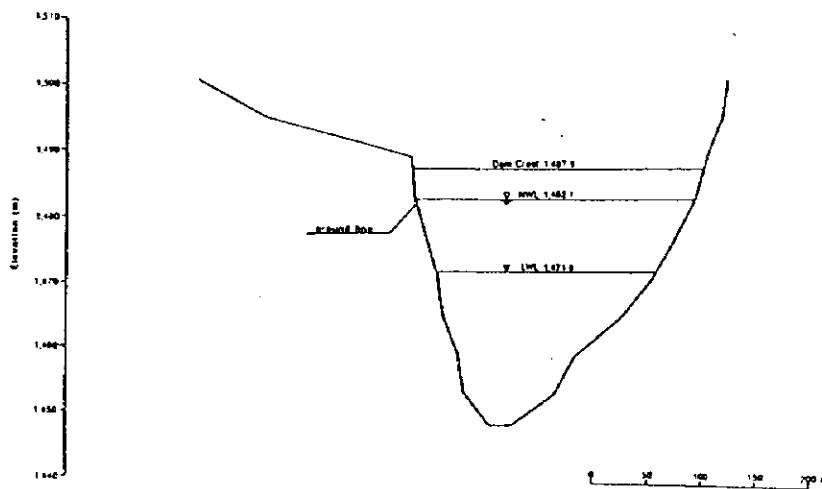
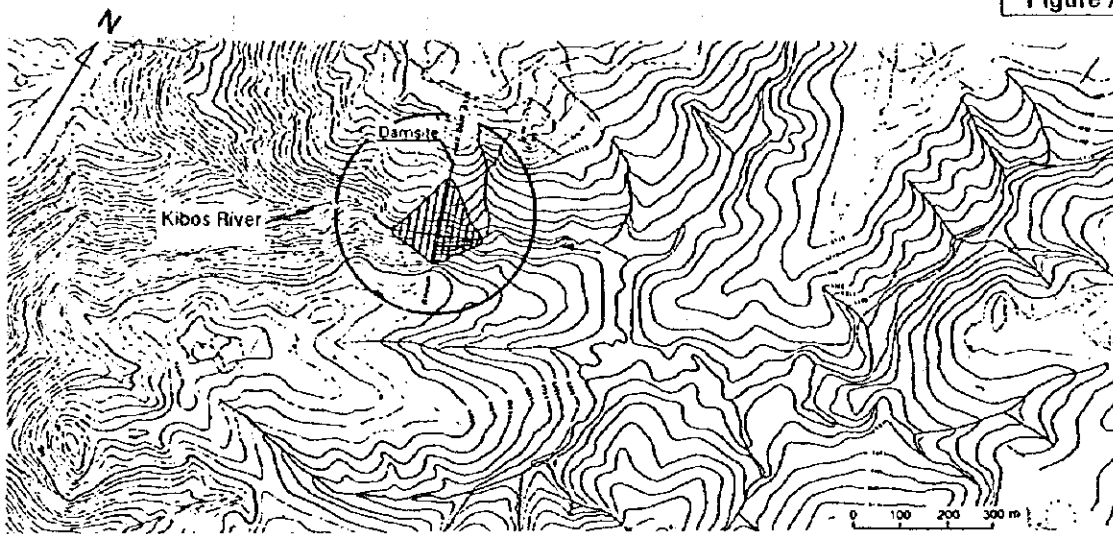
Duration of Low Water Period (days)	Minimum Mean Flow During Low Water Period \leq Tabelled Values (m ³ /s)				
	return period: 2	5	10	20	50 (years)
	prob.: n=0,50	n=0,20	n=0,10	n=0,05	n=0,02
1	2,21	1,57	1,36	1,24	1,13
3	2,32	1,67	1,47	1,35	1,25
5	2,40	1,74	1,54	1,41	1,31
7	2,49	1,80	1,60	1,46	1,36
9	2,55	1,84	1,63	1,49	1,38
14	2,67	1,94	1,70	1,56	1,45
21	2,85	2,05	1,81	1,67	1,55
30	3,07	2,17	1,90	1,75	1,62

Results of Statistical Low Water Analysis of R6S 1 FE 2 (Yala River) Transferred to Intake Site downstream of Confluence of Mokong and Remonde River

Source: MOLA (1985, November) "Kisumu Water Supply and Sanitation Study - Feasibility Study, Vol. III B, Appendices 7 Hydrology". H P Gauff GmbH & Co Consulting Engineers.

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	JAPAN INTERNATIONAL COOPERATION AGENCY	

Figure A4-1

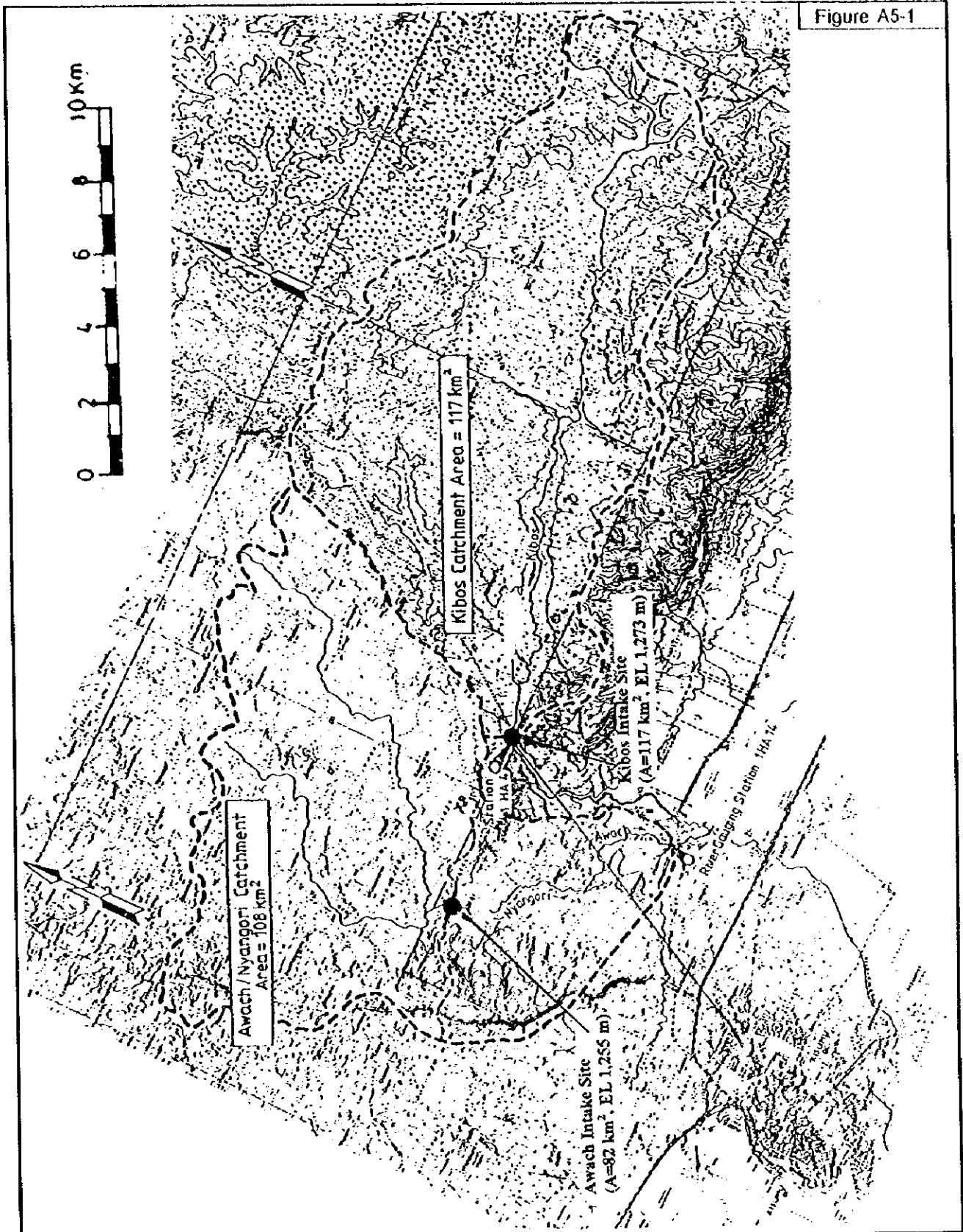


Note : The figures above show only the proposed location and typical sections of dam used for preliminary cost estimate.

Source; MOWR (1992, July) "The Study on the National Water Master Plan - Sectoral Report (H) Dam Development Plan". JICA.

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Figure A5-1

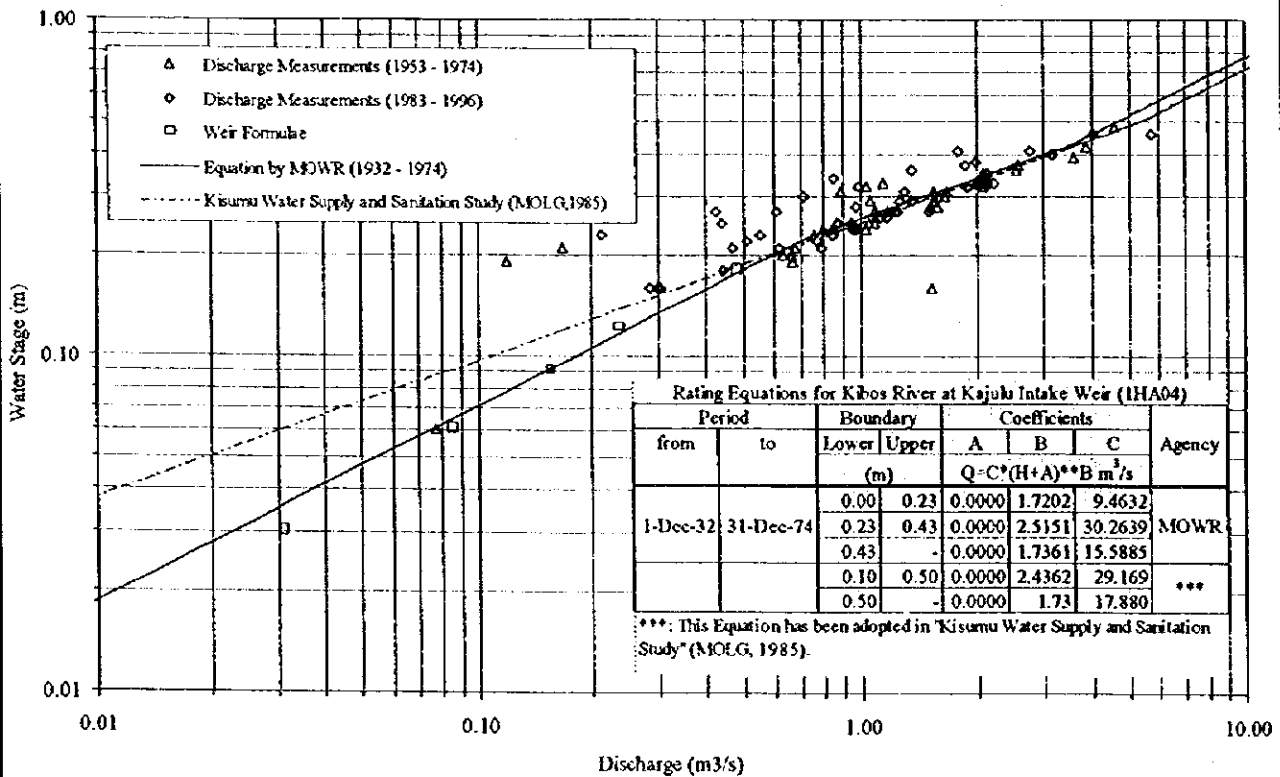
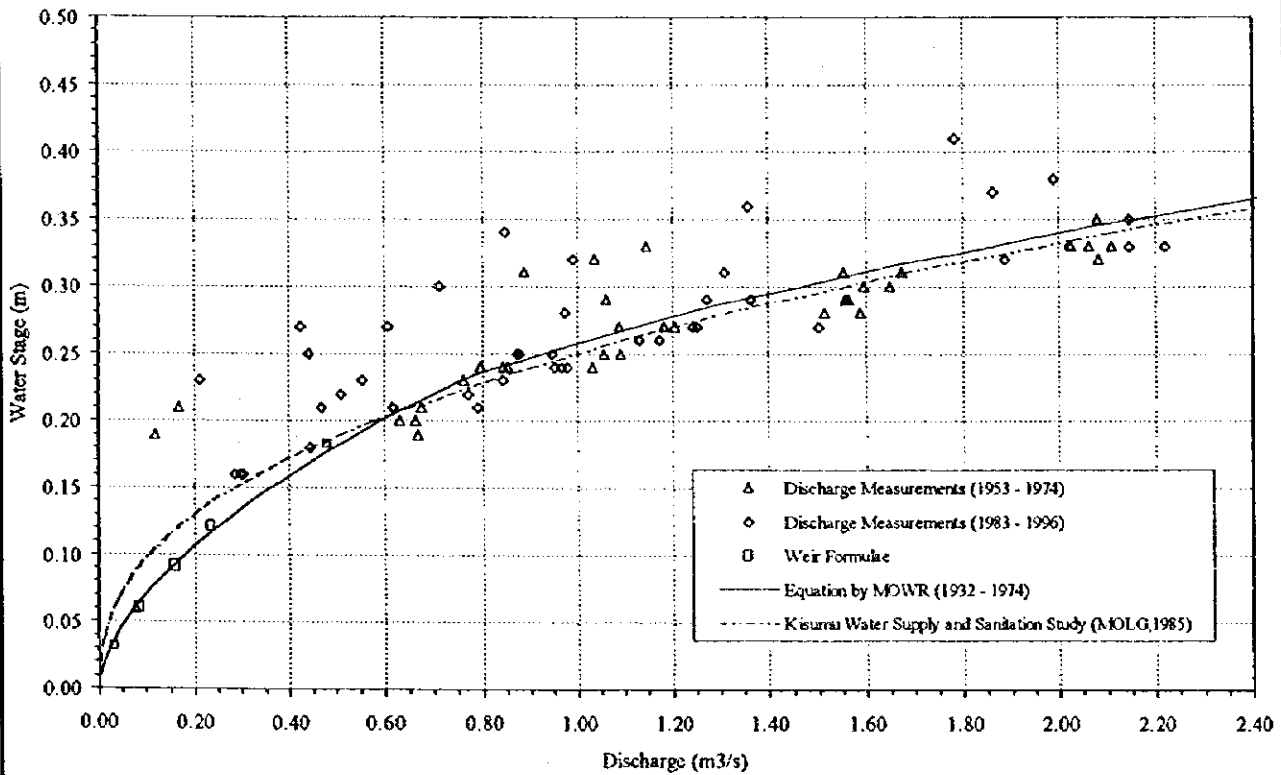


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TITLE :
 Catchment of Kibos
 and Awach Rivers

Figure A5-2 (1/2)

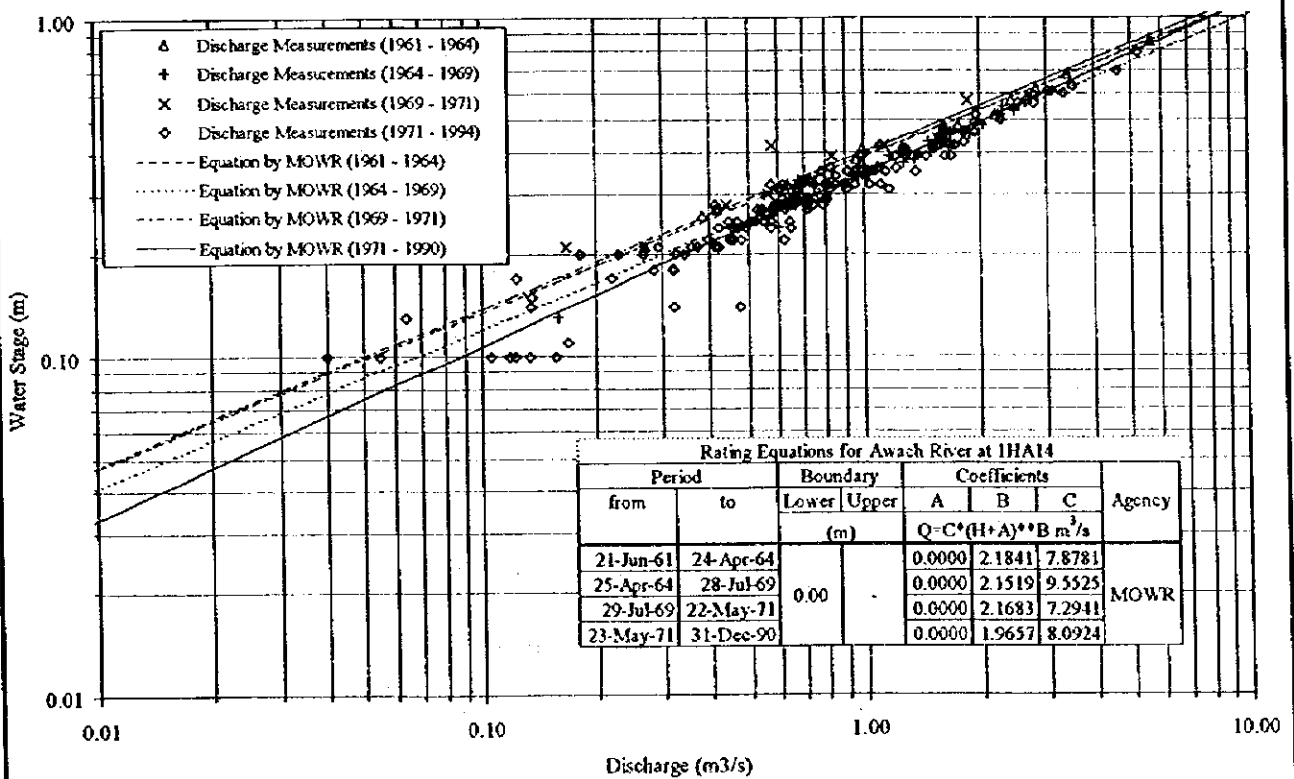
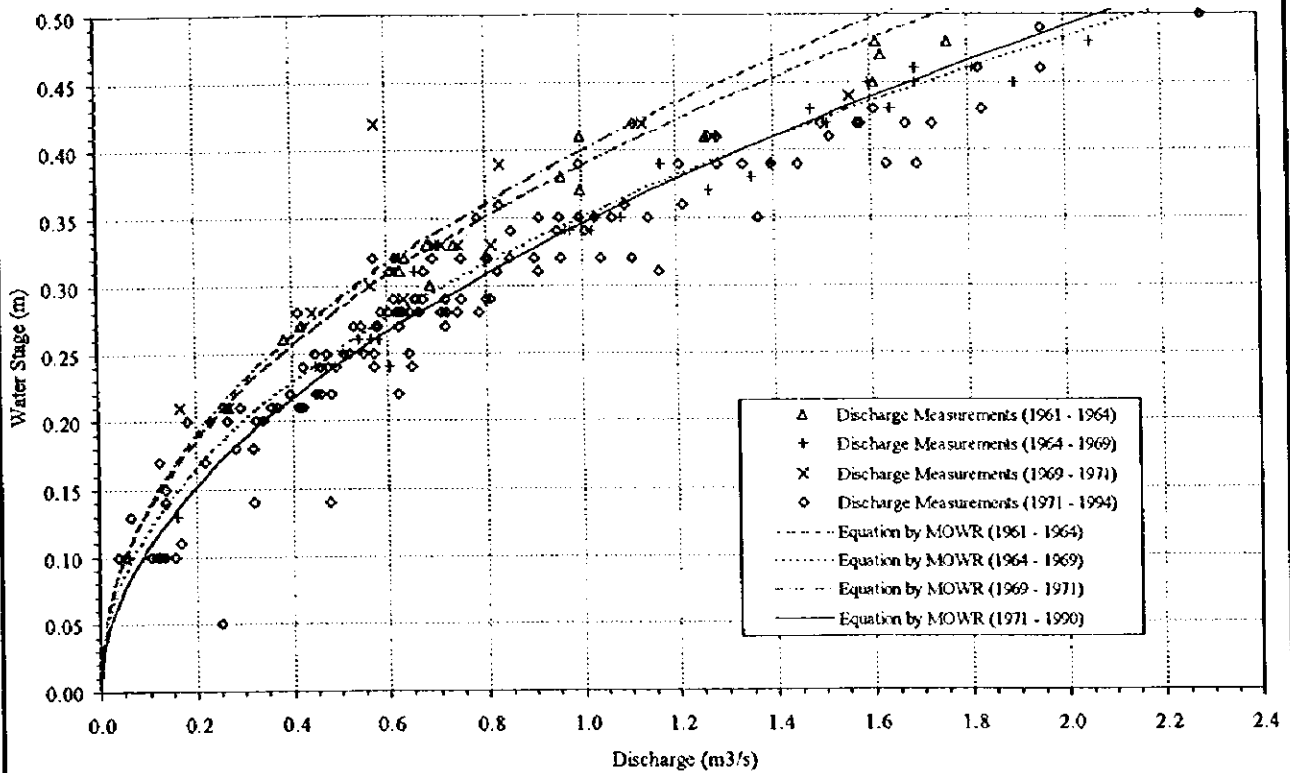


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AGENCY

TITLE :
Discharge Rating Curves
(Kibos River at 1HA04)

Figure A5-2 (2/2)

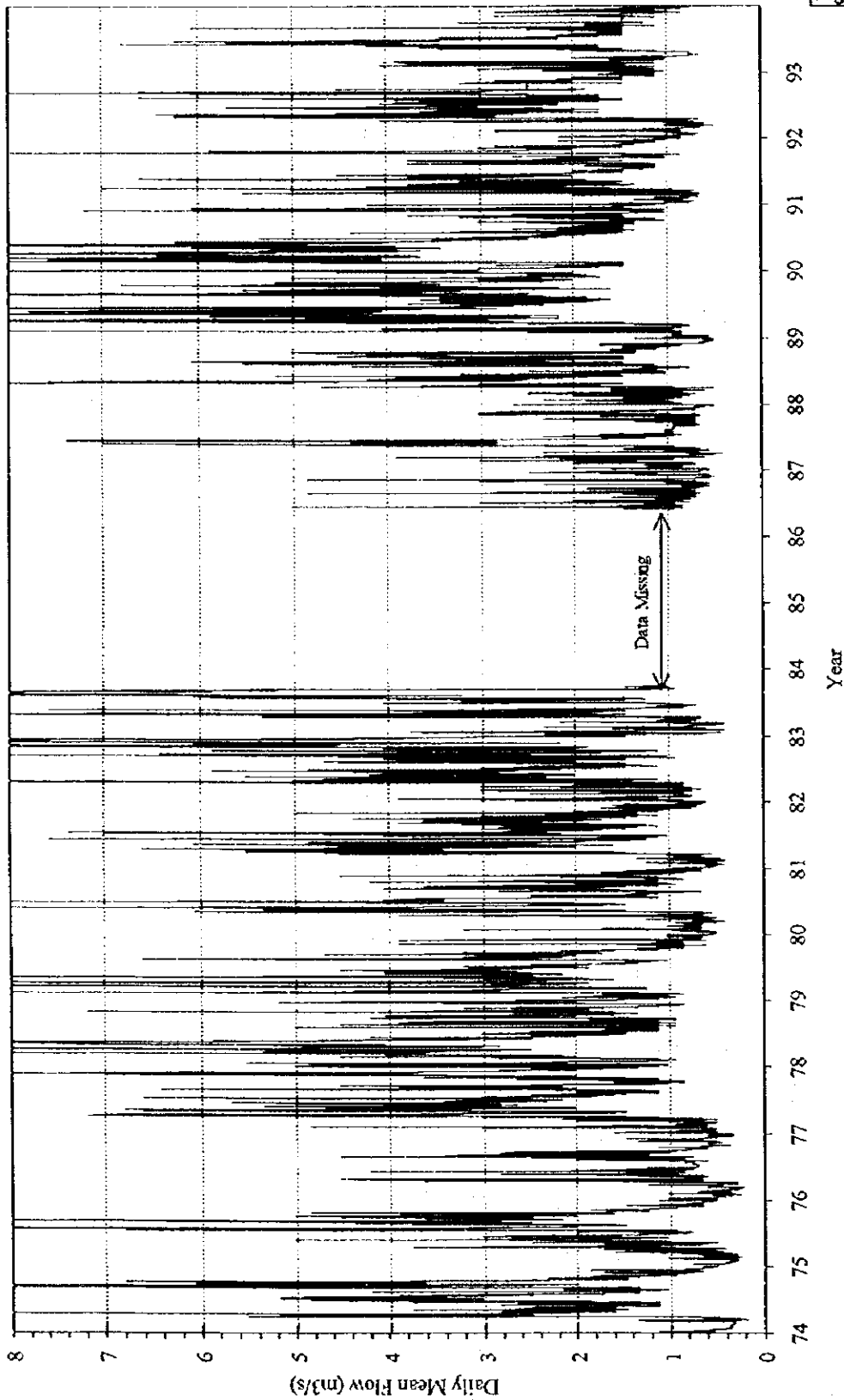


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TITLE :
Discharge Rating Curves
(Awach River at IHA14)

Figure A5-3 (1/2)

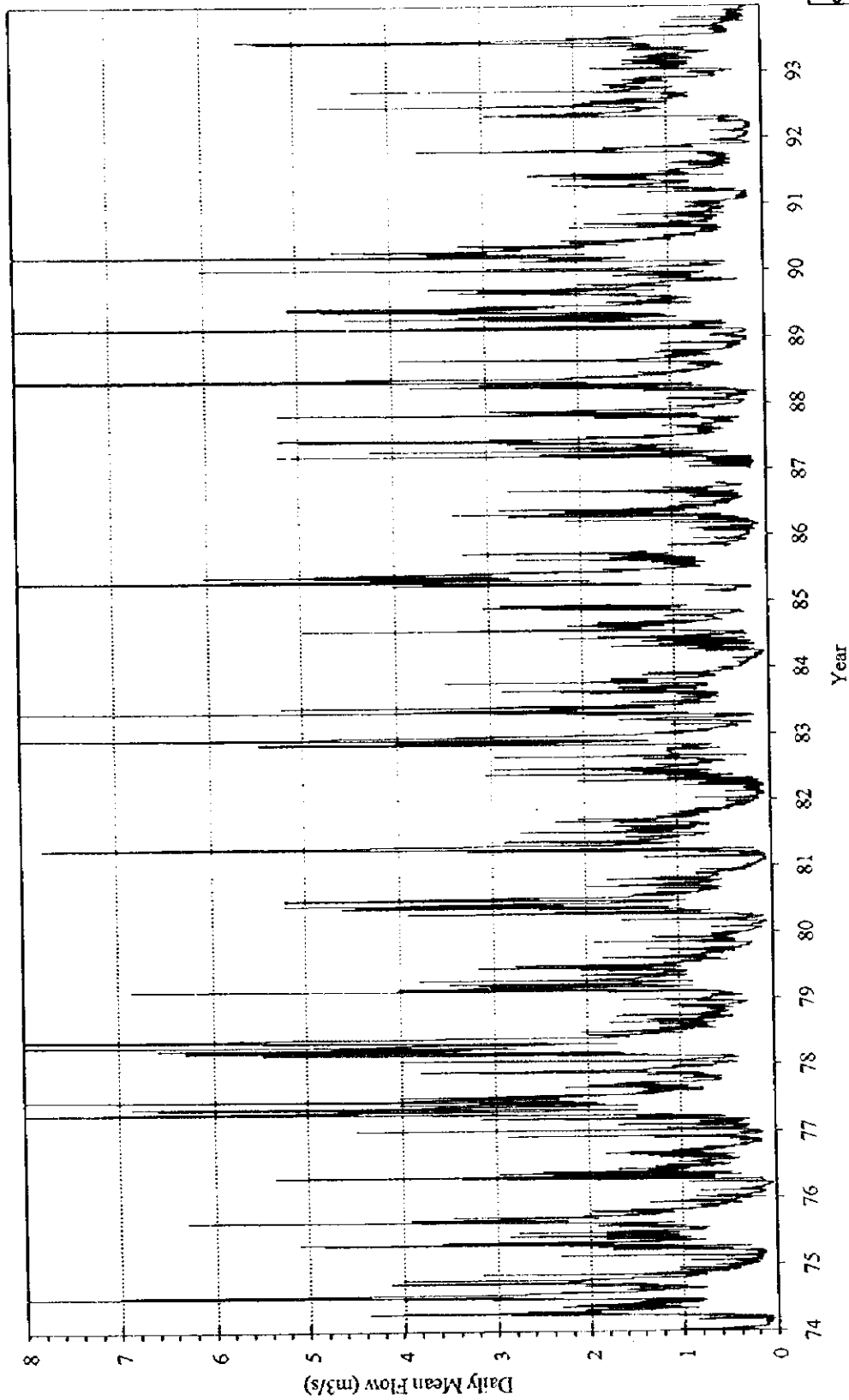


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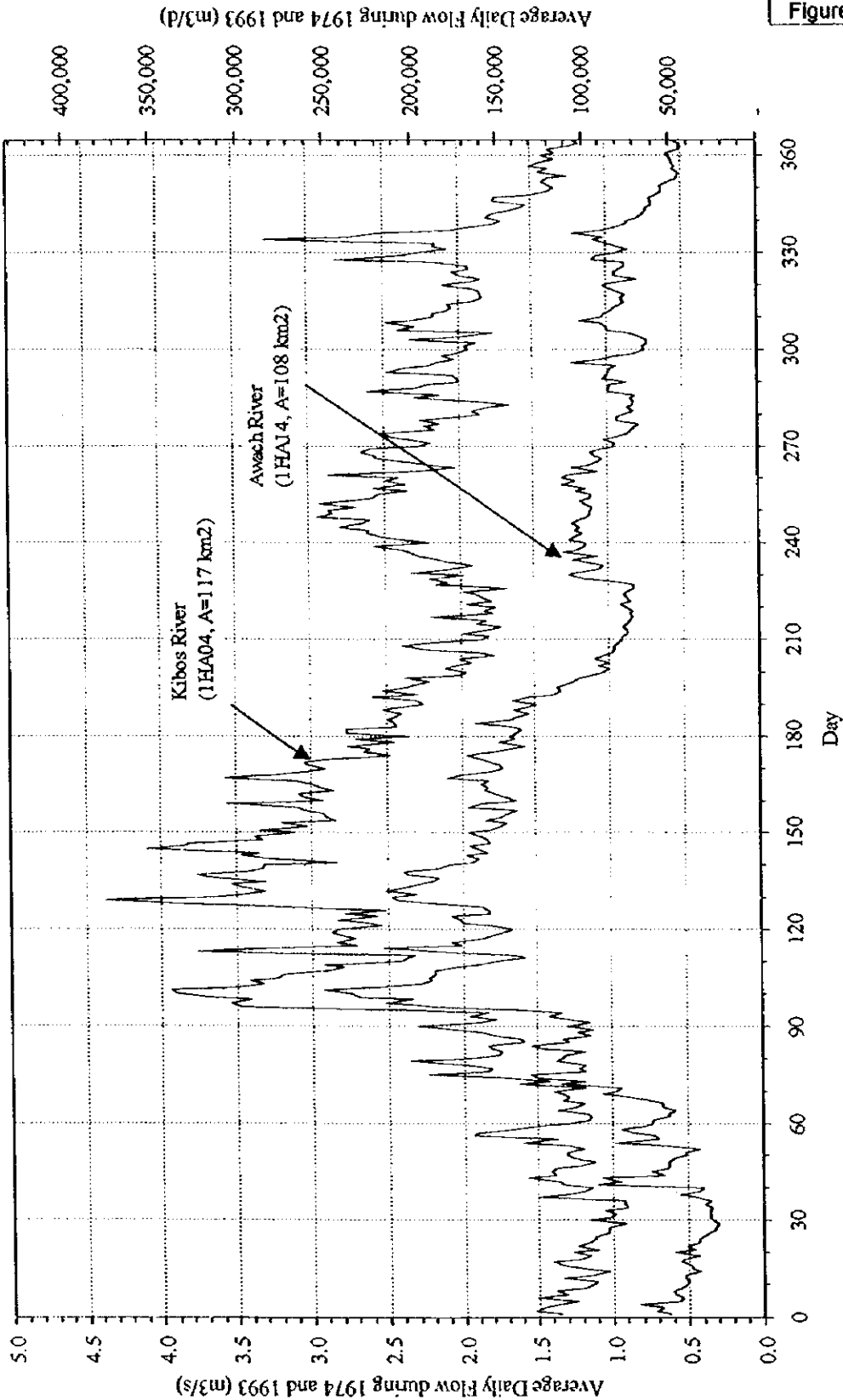
TITLE :
 Daily Mean Flow
 (Kibos River at 1HA04)

Figure A5-3 (2/2)



<p>THE REPUBLIC OF KENYA THE MINISTRY OF LOCAL AUTHORITIES KISUMU MUNICIPAL COUNCIL</p>	<p>THE STUDY ON KISUMU WATER SUPPLY AND SEWERAGE SYSTEM JAPAN INTERNATIONAL COOPERATION AGENCY</p>	<p>TITLE : Daily Mean Flow (Awach River at 1HA14)</p>
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Figure A5-4



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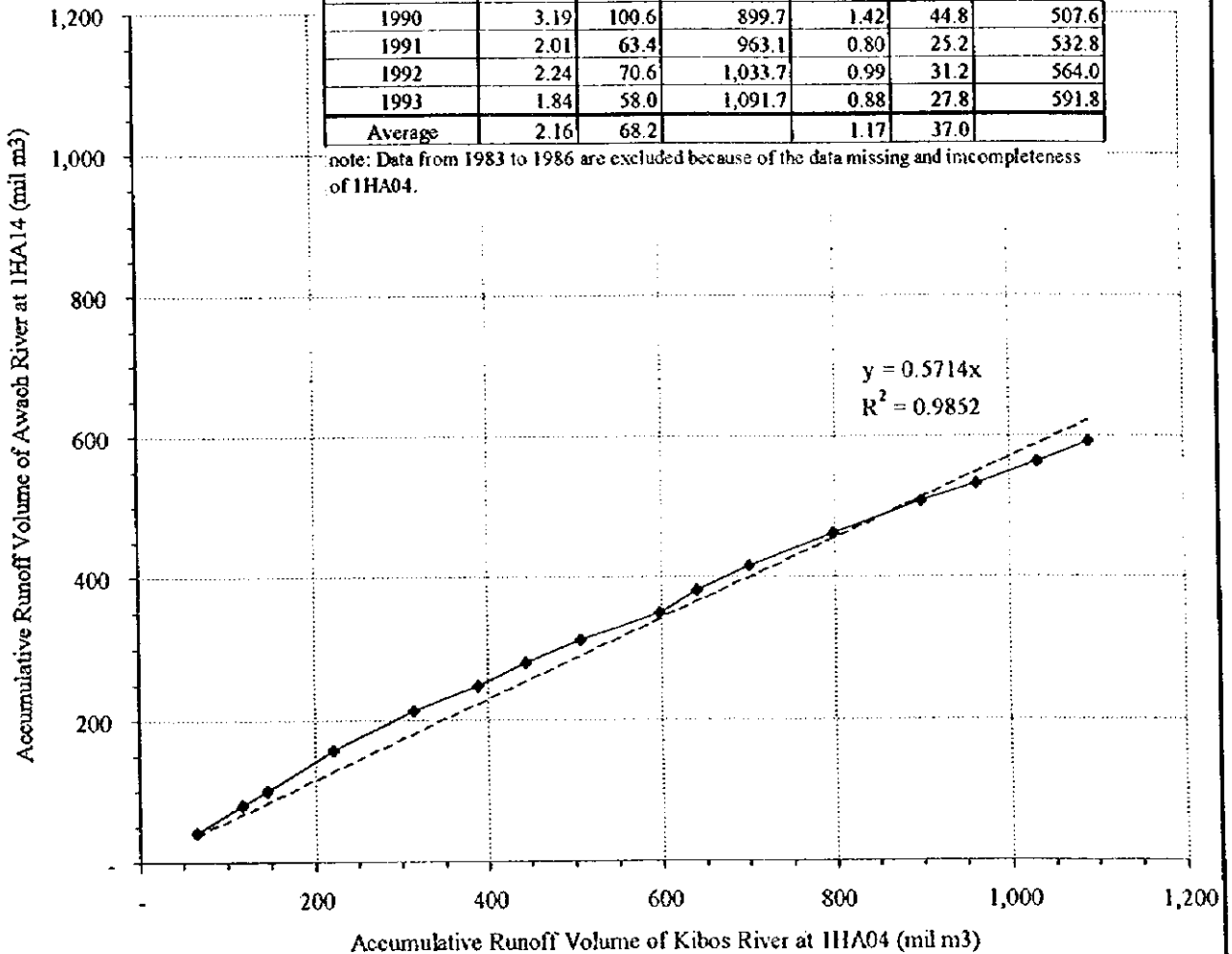
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 AND SEWERAGE SYSTEM
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 AGENCY

TITLE :
 Average Daily Flows
 of Kibos and Awach Rivers
 (1974 - 1993)

Figure A5-5

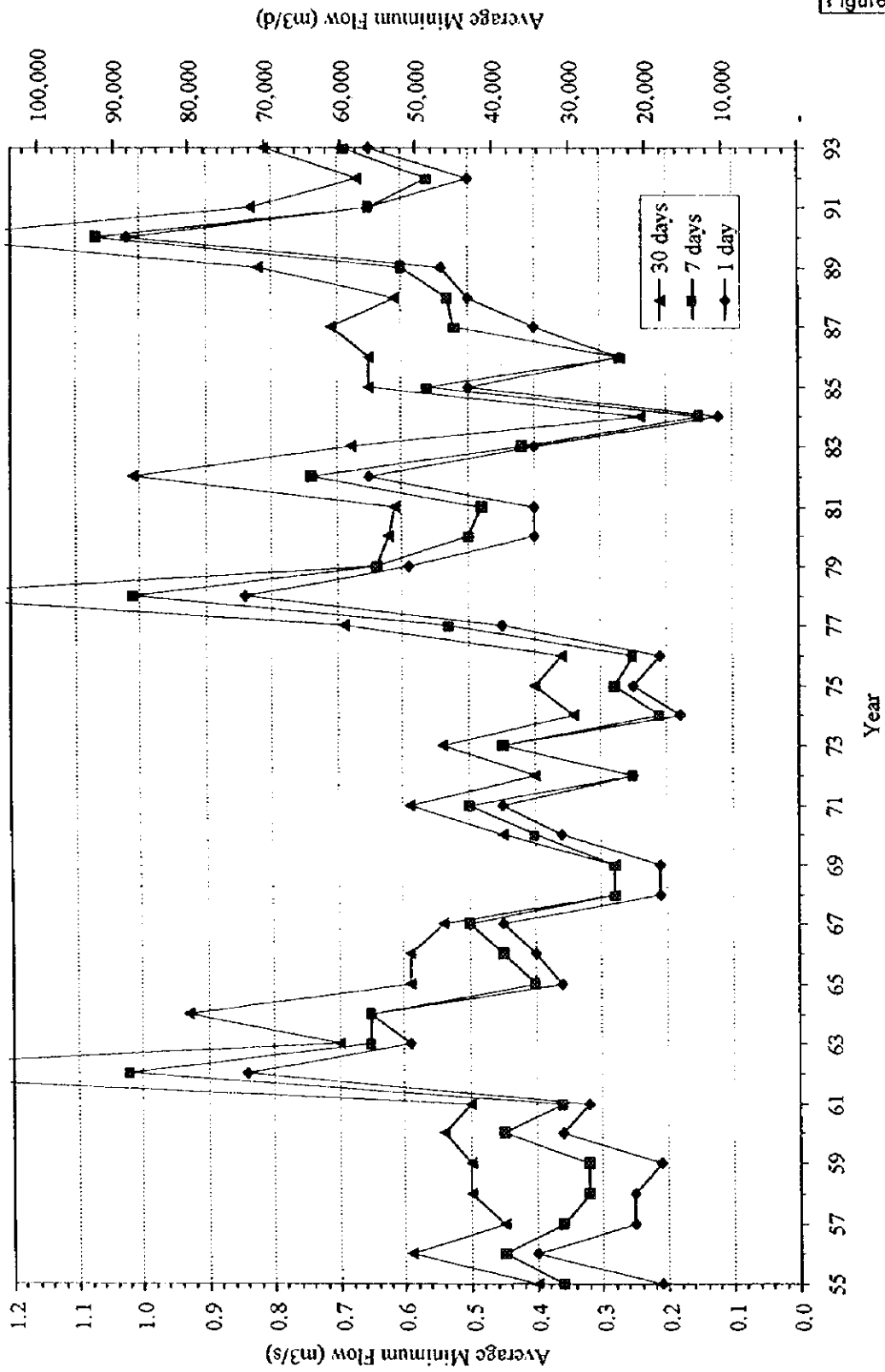
Annual Runoff Volume of Kibos and Awach Rivers						
River	Kibos River			Awach River		
Gauging Station	IHA04 (A=117 km ²)			IHA14 (A=108 km ²)		
Year	Annual Mean (m ³ /s)	Runoff Volume		Annual Mean (m ³ /s)	Runoff Volume	
		Annual (mil m ³)	Accumulative (mil m ³)		Annual (mil m ³)	Accumulative (mil m ³)
1974	2.08	65.6	65.6	1.35	42.6	42.6
1975	1.66	52.3	117.9	1.22	38.5	81.1
1976	0.88	27.8	145.7	0.59	18.6	99.7
1977	2.44	76.9	222.6	1.82	57.4	157.1
1978	2.92	92.1	314.7	1.79	56.4	213.5
1979	2.35	74.1	388.8	1.08	34.1	247.6
1980	1.78	56.1	444.9	1.05	33.1	280.7
1981	1.99	62.8	507.7	1.02	32.2	312.9
1982	2.87	90.5	598.2	1.14	36.0	348.9
1987	1.34	42.3	640.5	1.03	32.5	381.4
1988	1.91	60.2	700.7	1.10	34.7	416.1
1989	3.12	98.4	799.1	1.48	46.7	462.8
1990	3.19	100.6	899.7	1.42	44.8	507.6
1991	2.01	63.4	963.1	0.80	25.2	532.8
1992	2.24	70.6	1,033.7	0.99	31.2	564.0
1993	1.84	58.0	1,091.7	0.88	27.8	591.8
Average	2.16	68.2		1.17	37.0	

note: Data from 1983 to 1986 are excluded because of the data missing and incompleteness of IHA04.



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	JAPAN INTERNATIONAL COOPERATION AGENCY	

Figure A5-6 (1/2)

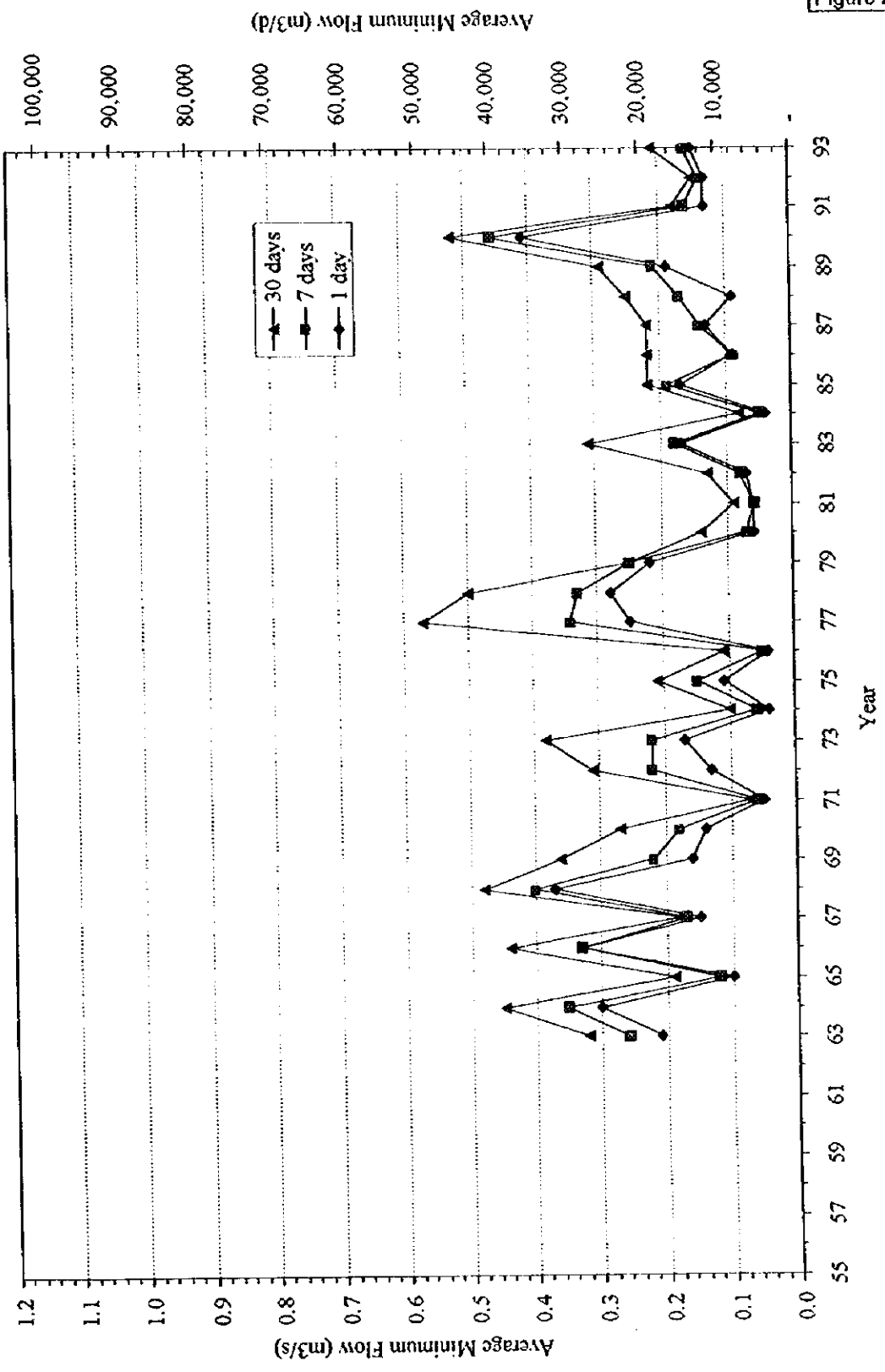


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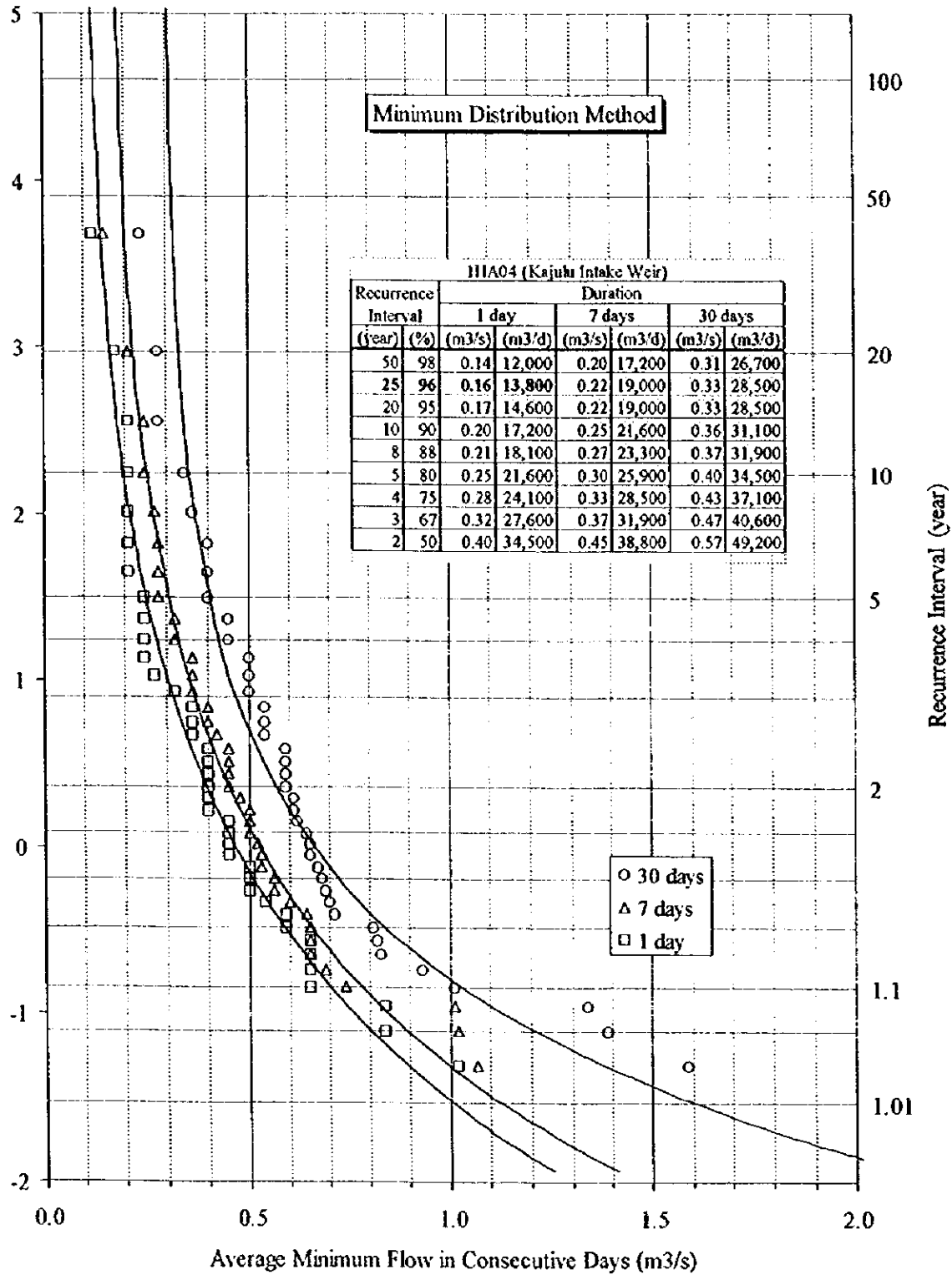
TITLE :
Average Minimum Flows
(Kibos River at 1HA04)

Figure A5-6 (2/2)



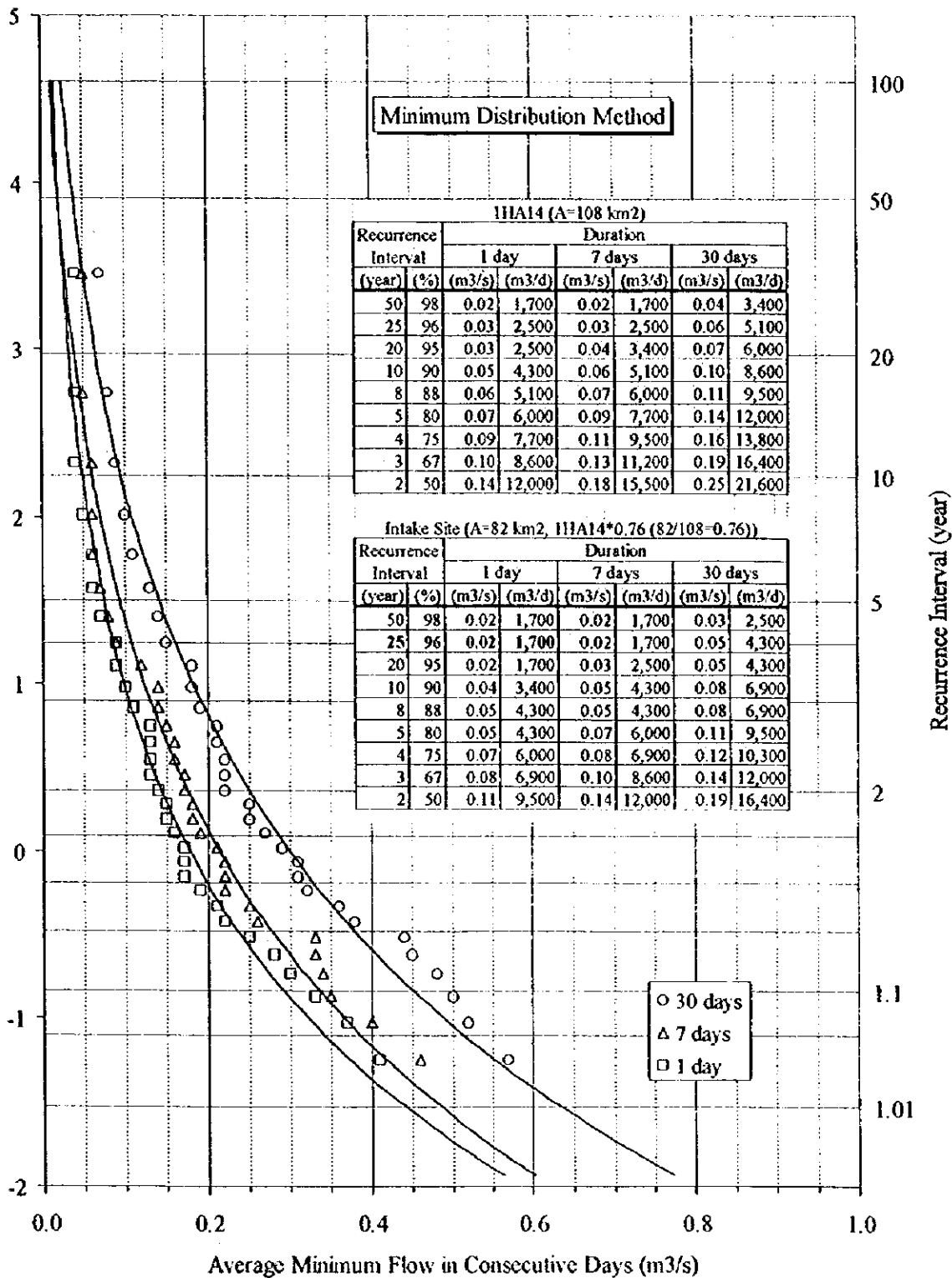
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Figure A5-7 (1/2)



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Figure A5-7 (2/2)

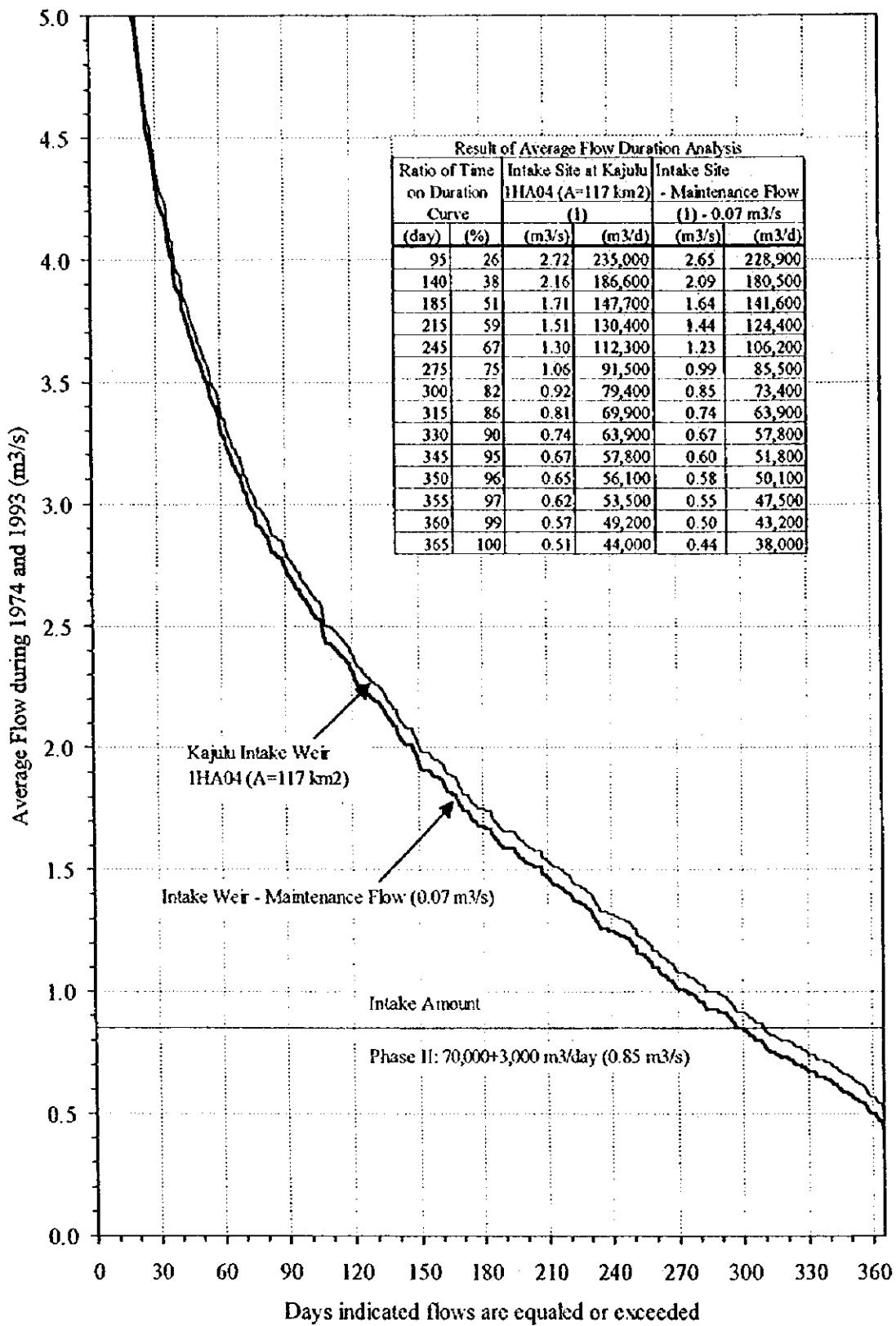


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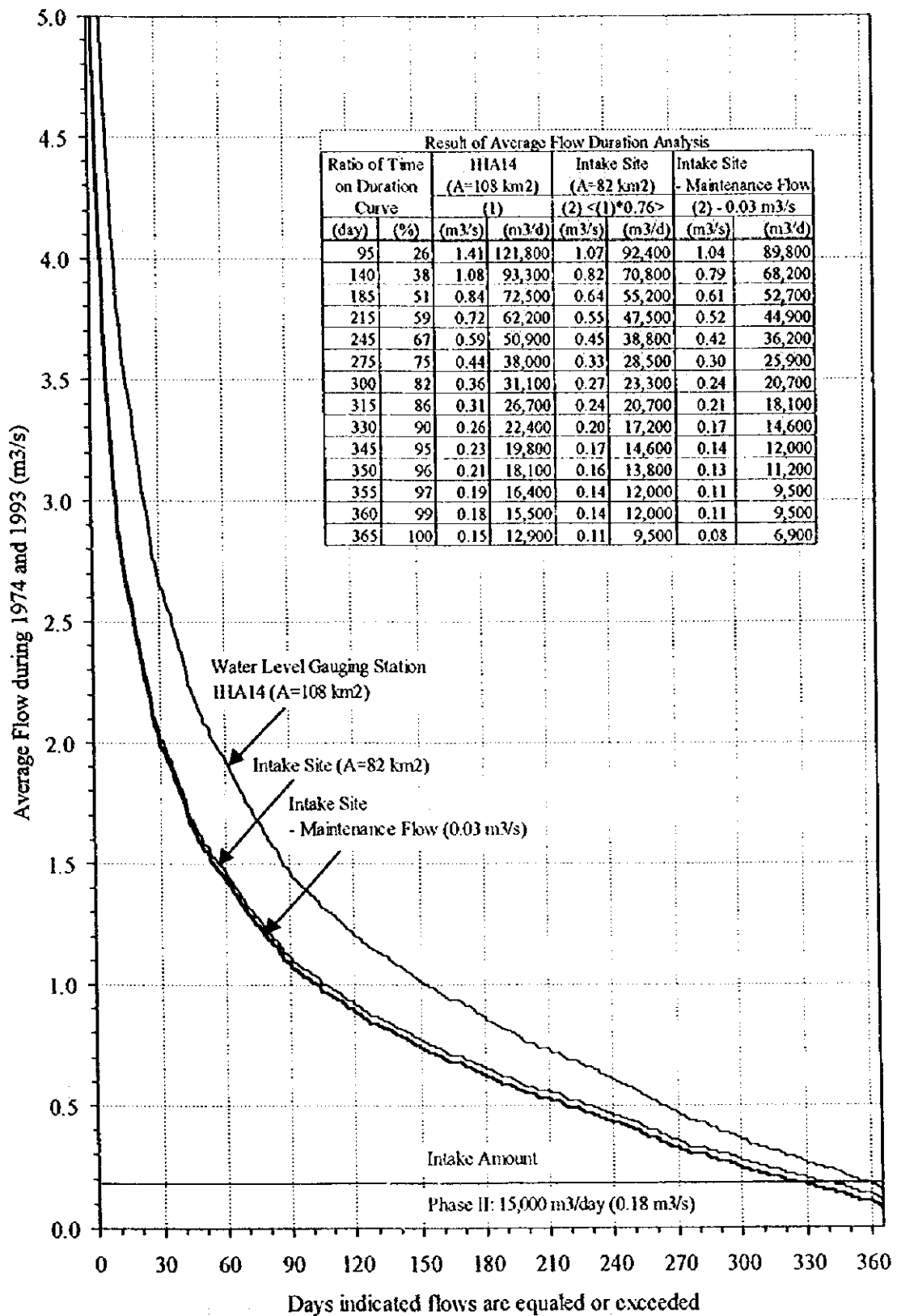
TITLE :
Frequency of Minimum Flows
(Awach River at IHA14)

Figure A5-8 (1/2)



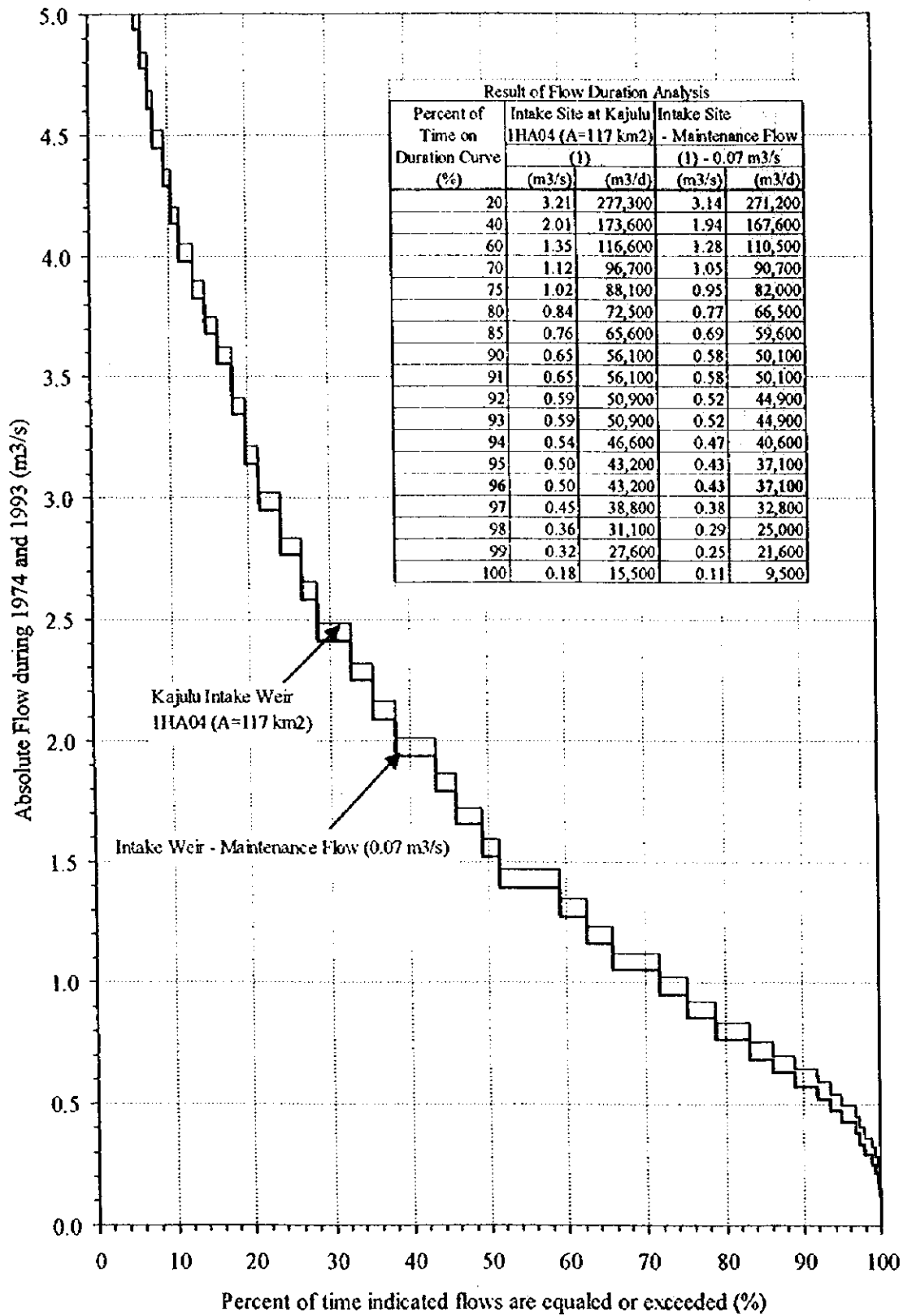
<p>THE REPUBLIC OF KENYA THE MINISTRY OF LOCAL AUTHORITIES KISUMU MUNICIPAL COUNCIL</p>	<p>THE STUDY : ON KISUMU WATER SUPPLY AND SEWERAGE SYSTEM JAPAN INTERNATIONAL COOPERATION AGENCY</p>	<p>TITLE : Average Flow Duration Curves (Kibos River at 1HA04 (1974-1993))</p>
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Figure A5-8 (2/2)



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Figure A5-9 (1/2)

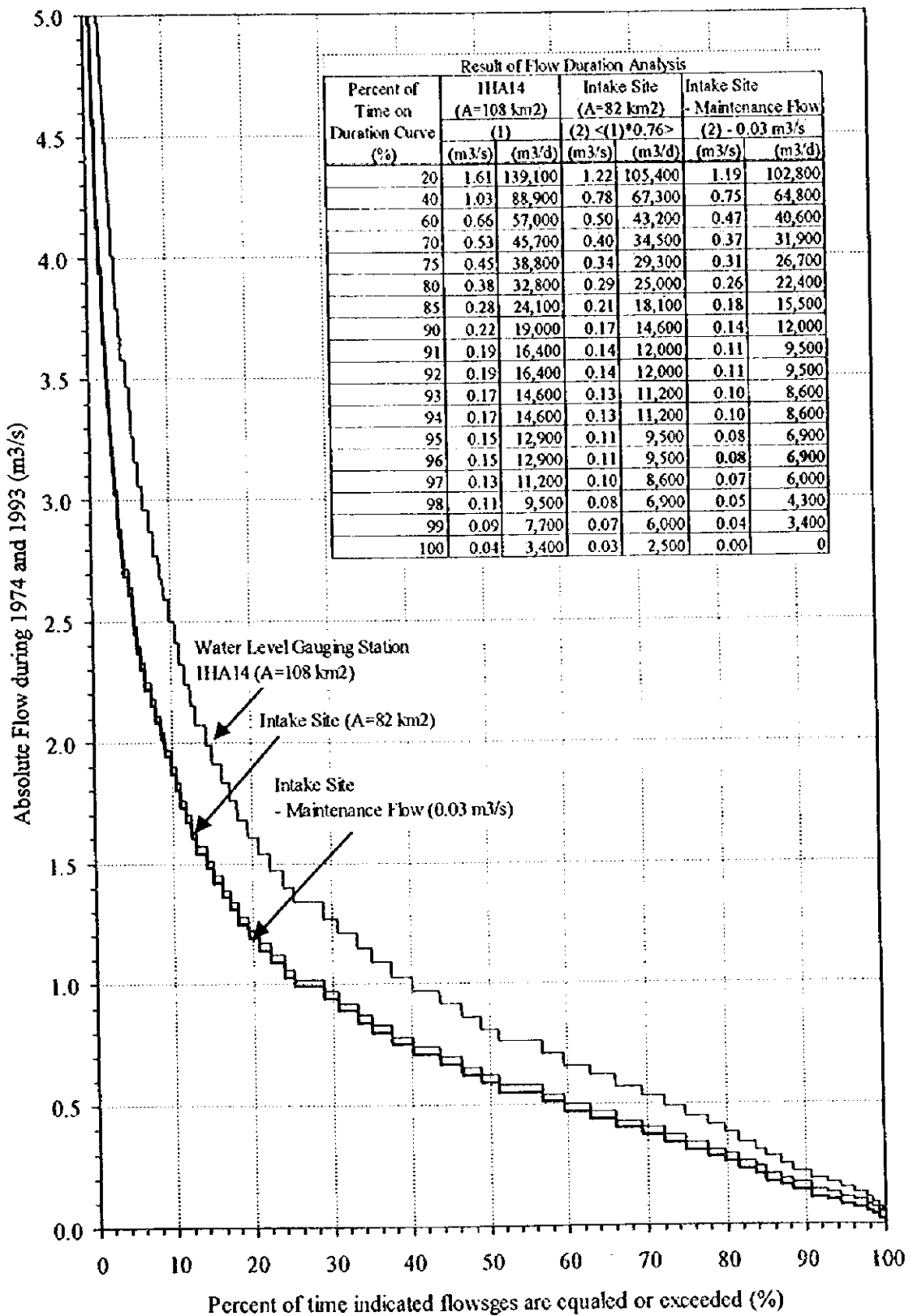


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TITLE :
Sequential Flow Duration Curves
(Kibos River at IHA04 (1974-1993))

Figure A5-9 (2/2)



Percent of Time on Duration Curve (%)	IHA14 (A=108 km ²)		Intake Site (A=82 km ²)		Intake Site - Maintenance Flow	
	(1)		(2) <(1)*0.76>		(2) - 0.03 m ³ /s	
	(m ³ /s)	(m ³ /d)	(m ³ /s)	(m ³ /d)	(m ³ /s)	(m ³ /d)
20	1.61	139,100	1.22	105,400	1.19	102,800
40	1.03	88,900	0.78	67,300	0.75	64,800
60	0.66	57,000	0.50	43,200	0.47	40,600
70	0.53	45,700	0.40	34,500	0.37	31,900
75	0.45	38,800	0.34	29,300	0.31	26,700
80	0.38	32,800	0.29	25,000	0.26	22,400
85	0.28	24,100	0.21	18,100	0.18	15,500
90	0.22	19,000	0.17	14,600	0.14	12,000
91	0.19	16,400	0.14	12,000	0.11	9,500
92	0.19	16,400	0.14	12,000	0.11	9,500
93	0.17	14,600	0.13	11,200	0.10	8,600
94	0.17	14,600	0.13	11,200	0.10	8,600
95	0.15	12,900	0.11	9,500	0.08	6,900
96	0.15	12,900	0.11	9,500	0.08	6,900
97	0.13	11,200	0.10	8,600	0.07	6,000
98	0.11	9,500	0.08	6,900	0.05	4,300
99	0.09	7,700	0.07	6,000	0.04	3,400
100	0.04	3,400	0.03	2,500	0.00	0

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***ANNEX* (Daily Mean Water Level and Flow Data)**

- 1HA04 on Kibos River (1974 - 1993)
- 1HA14 on Awach River (1974 - 1993)

Daily Mean Water Level and Flow at HIA04 on Kibos River (unit: H- m, Q- m³/s) *** denotes estimated value by interpolation

1974	H	Q	1975	H	Q	1976	H	Q	1977	H	Q	1978	H	Q	1979	H	Q
1-Jan	0.21	0.65	1-Jan	0.19	0.54	1-Jan	0.21	0.65	1-Jan	0.17	0.45	1-Jan	0.52	5.01	1-Jan	0.38	2.65
2-Jan	0.20	0.59	2-Jan	0.19	0.54	2-Jan	0.27	1.12	2-Jan	0.21	0.65	2-Jan	0.40	3.02	2-Jan	0.34	2.01
3-Jan	0.19	0.54	3-Jan	0.18	0.50	3-Jan	0.24	0.84	3-Jan	0.18	0.50	3-Jan	0.30	1.46	3-Jan	0.33	1.86
4-Jan	0.20	0.59	4-Jan	0.18	0.50	4-Jan	0.21	0.65	4-Jan	0.31	1.59	4-Jan	0.30	1.46	4-Jan	0.33	1.86
5-Jan	0.19	0.54	5-Jan	0.18	0.50	5-Jan	0.19	0.54	5-Jan	0.23	0.76	5-Jan	0.28	1.23	5-Jan	0.31	1.59
6-Jan	0.19	0.54	6-Jan	0.18	0.50	6-Jan	0.19	0.54	6-Jan	0.23	0.76	6-Jan	0.27	1.12	6-Jan	0.30	1.46
7-Jan	0.20	0.59	7-Jan	0.18	0.50	7-Jan	0.22	0.70	7-Jan	0.20	0.59	7-Jan	0.27	1.12	7-Jan	0.28	1.23
8-Jan	0.21	0.65	8-Jan	0.18	0.50	8-Jan	0.25	0.93	8-Jan	0.30	1.46	8-Jan	0.27	1.12	8-Jan	0.29	1.35
9-Jan	0.27	1.12	9-Jan	0.18	0.50	9-Jan	0.21	0.65	9-Jan	0.26	1.02	9-Jan	0.26	1.02	9-Jan	0.28	1.23
10-Jan	0.21	0.65	10-Jan	0.18	0.50	10-Jan	0.21	0.65	10-Jan	0.21	0.65	10-Jan	0.26	1.02	10-Jan	0.27	1.12
11-Jan	0.21	0.65	11-Jan	0.19	0.54	11-Jan	0.19	0.54	11-Jan	0.19	0.54	11-Jan	0.30	1.46	11-Jan	0.28	1.23
12-Jan	0.21	0.65	12-Jan	0.23	0.76	12-Jan	0.26	1.02	12-Jan	0.18	0.50	12-Jan	0.26	1.02	12-Jan	0.27	1.12
13-Jan	0.20	0.59	13-Jan	0.22	0.70	13-Jan	0.20	0.59	13-Jan	0.18	0.50	13-Jan	0.27	1.12	13-Jan	0.28	1.23
14-Jan	0.20	0.59	14-Jan	0.18	0.50	14-Jan	0.19	0.54	14-Jan	0.18	0.50	14-Jan	0.26	1.02	14-Jan	0.27	1.12
15-Jan	0.20	0.59	15-Jan	0.18	0.50	15-Jan	0.18	0.50	15-Jan	0.25	0.93	15-Jan	0.29	1.35	15-Jan	0.27	1.12
16-Jan	0.23	0.76	16-Jan	0.17	0.45	16-Jan	0.18	0.50	16-Jan	0.22	0.70	16-Jan	0.51	4.84	16-Jan	0.26	1.02
17-Jan	0.20	0.59	17-Jan	0.16	0.40	17-Jan	0.18	0.50	17-Jan	0.19	0.54	17-Jan	0.45	3.90	17-Jan	0.35	2.16
18-Jan	0.18	0.50	18-Jan	0.16	0.40	18-Jan	0.18	0.50	18-Jan	0.25	0.93	18-Jan	0.46	4.05	18-Jan	0.27	1.12
19-Jan	0.19	0.54	19-Jan	0.15	0.36	19-Jan	0.17	0.45	19-Jan	0.22	0.70	19-Jan	0.41	3.21	19-Jan	0.25	0.93
20-Jan	0.18	0.50	20-Jan	0.16	0.40	20-Jan	0.16	0.40	20-Jan	0.20	0.59	20-Jan	0.52	5.01	20-Jan	0.25	0.93
21-Jan	0.18	0.50	21-Jan	0.15	0.36	21-Jan	0.17	0.45	21-Jan	0.20	0.59	21-Jan	0.47	4.20	21-Jan	0.25	0.93
22-Jan	0.17	0.45	22-Jan	0.15	0.36	22-Jan	0.18	0.50	22-Jan	0.18	0.50	22-Jan	0.55	5.52	22-Jan	0.25	0.93
23-Jan	0.16	0.40	23-Jan	0.15	0.36	23-Jan	0.17	0.45	23-Jan	0.18	0.50	23-Jan	0.54	5.35	23-Jan	0.26	1.02
24-Jan	0.16	0.40	24-Jan	0.16	0.40	24-Jan	0.18	0.50	24-Jan	0.18	0.50	24-Jan	0.42	3.41	24-Jan	0.28	1.23
25-Jan	0.16	0.40	25-Jan	0.15	0.36	25-Jan	0.19	0.54	25-Jan	0.19	0.54	25-Jan	0.39	2.83	25-Jan	0.34	2.01
26-Jan	0.15	0.36	26-Jan	0.15	0.36	26-Jan	0.17	0.45	26-Jan	0.21	0.65	26-Jan	0.37	2.48	26-Jan	0.28	1.23
27-Jan	0.15	0.36	27-Jan	0.14	0.32	27-Jan	0.15	0.36	27-Jan	0.20	0.59	27-Jan	0.34	2.01	27-Jan	0.26	1.02
28-Jan	0.15	0.36	28-Jan	0.15	0.36	28-Jan	0.15	0.36	28-Jan	0.20	0.59	28-Jan	0.34	2.01	28-Jan	0.26	1.02
29-Jan	0.15	0.36	29-Jan	0.15	0.36	29-Jan	0.14	0.32	29-Jan	0.19	0.54	29-Jan	0.32	1.72	29-Jan	0.29	1.35
30-Jan	0.15	0.36	30-Jan	0.14	0.32	30-Jan	0.13	0.28	30-Jan	0.23	0.76	30-Jan	0.30	1.46	30-Jan	0.28	1.23
31-Jan	0.15	0.36	31-Jan	0.13	0.28	31-Jan	0.13	0.28	31-Jan	0.24	0.84	31-Jan	0.30	1.46	31-Jan	0.27	1.12
1-Feb	*0.15	0.36	1-Feb	0.13	0.28	1-Feb	0.13	0.28	1-Feb	0.24	0.84	1-Feb	0.29	1.35	1-Feb	0.30	1.46
2-Feb	*0.15	0.36	2-Feb	0.15	0.36	2-Feb	0.12	0.25	2-Feb	0.40	3.02	2-Feb	0.28	1.23	2-Feb	0.28	1.23
3-Feb	*0.15	0.36	3-Feb	0.14	0.32	3-Feb	0.14	0.32	3-Feb	0.26	1.02	3-Feb	0.28	1.23	3-Feb	0.26	1.02
4-Feb	*0.15	0.36	4-Feb	0.15	0.36	4-Feb	0.16	0.40	4-Feb	0.34	2.01	4-Feb	0.27	1.12	4-Feb	0.24	0.84
5-Feb	*0.15	0.36	5-Feb	0.14	0.32	5-Feb	0.14	0.32	5-Feb	0.26	1.02	5-Feb	0.26	1.02	5-Feb	0.27	1.12
6-Feb	*0.15	0.36	6-Feb	0.13	0.28	6-Feb	0.26	1.02	6-Feb	0.30	1.46	6-Feb	0.26	1.02	6-Feb	0.31	1.59
7-Feb	*0.15	0.36	7-Feb	0.13	0.28	7-Feb	0.23	0.76	7-Feb	0.46	4.05	7-Feb	0.26	1.02	7-Feb	0.32	1.72
8-Feb	*0.15	0.36	8-Feb	0.17	0.45	8-Feb	0.19	0.54	8-Feb	0.51	4.84	8-Feb	0.26	1.02	8-Feb	0.29	1.35
9-Feb	*0.15	0.36	9-Feb	0.22	0.70	9-Feb	0.17	0.45	9-Feb	0.35	2.16	9-Feb	0.27	1.12	9-Feb	0.39	2.83
10-Feb	*0.15	0.36	10-Feb	0.18	0.50	10-Feb	0.16	0.40	10-Feb	0.30	1.46	10-Feb	0.27	1.12	10-Feb	0.41	3.21
11-Feb	*0.15	0.36	11-Feb	0.17	0.45	11-Feb	0.16	0.40	11-Feb	0.27	1.12	11-Feb	0.28	1.23	11-Feb	0.42	3.41
12-Feb	*0.15	0.36	12-Feb	0.26	1.02	12-Feb	0.16	0.40	12-Feb	0.24	0.84	12-Feb	0.27	1.12	12-Feb	0.69	8.19
13-Feb	*0.15	0.36	13-Feb	0.18	0.50	13-Feb	0.15	0.36	13-Feb	0.24	0.84	13-Feb	0.27	1.12	13-Feb	0.60	6.42
14-Feb	*0.15	0.36	14-Feb	0.25	0.93	14-Feb	0.18	0.50	14-Feb	0.22	0.70	14-Feb	0.25	0.93	14-Feb	0.54	5.35
15-Feb	*0.14	0.32	15-Feb	0.19	0.54	15-Feb	0.17	0.45	15-Feb	0.21	0.65	15-Feb	0.25	0.93	15-Feb	0.54	5.35
16-Feb	*0.14	0.32	16-Feb	0.16	0.40	16-Feb	0.17	0.45	16-Feb	0.20	0.59	16-Feb	0.34	2.01	16-Feb	0.46	4.05
17-Feb	*0.14	0.32	17-Feb	0.15	0.36	17-Feb	0.22	0.70	17-Feb	0.21	0.65	17-Feb	0.27	1.12	17-Feb	0.41	3.21
18-Feb	*0.14	0.32	18-Feb	0.15	0.36	18-Feb	0.18	0.50	18-Feb	0.21	0.65	18-Feb	0.27	1.12	18-Feb	0.48	4.36
19-Feb	*0.14	0.32	19-Feb	0.14	0.32	19-Feb	0.16	0.40	19-Feb	0.25	0.93	19-Feb	0.27	1.12	19-Feb	0.51	4.84
20-Feb	*0.14	0.32	20-Feb	0.13	0.28	20-Feb	0.15	0.36	20-Feb	0.20	0.59	20-Feb	0.39	2.83	20-Feb	0.46	4.05
21-Feb	*0.14	0.32	21-Feb	0.12	0.25	21-Feb	0.15	0.36	21-Feb	0.23	0.76	21-Feb	0.28	1.23	21-Feb	0.46	4.05
22-Feb	*0.14	0.32	22-Feb	0.12	0.25	22-Feb	0.15	0.36	22-Feb	0.23	0.76	22-Feb	0.30	1.46	22-Feb	0.48	4.36
23-Feb	*0.14	0.32	23-Feb	0.12	0.25	23-Feb	0.15	0.36	23-Feb	0.21	0.65	23-Feb	0.41	3.21	23-Feb	0.45	3.90
24-Feb	*0.14	0.32	24-Feb	0.12	0.25	24-Feb	0.15	0.36	24-Feb	0.23	0.76	24-Feb	0.34	2.01	24-Feb	0.41	3.21
25-Feb	*0.14	0.32	25-Feb	0.15	0.36	25-Feb	0.17	0.45	25-Feb	0.20	0.59	25-Feb	0.43	3.62	25-Feb	0.39	2.83
26-Feb	*0.14	0.32	26-Feb	0.17	0.45	26-Feb	0.16	0.40	26-Feb	0.21	0.65	26-Feb	0.49	4.52	26-Feb	0.43	3.62
27-Feb	*0.14	0.32	27-Feb	0.16	0.40	27-Feb	0.15	0.36	27-Feb	0.24	0.84	27-Feb	0.49	4.52	27-Feb	0.41	3.21
28-Feb	*0.14	0.32	28-Feb	0.21	0.65	28-Feb	0.15	0.36	28-Feb	0.20	0.59	28-Feb	0.43	3.62	28-Feb	0.38	2.65
1-Mar	0.14	0.32	1-Mar	0.15	0.36	1-Mar	0.14	0.32	1-Mar	0.19	0.54	1-Mar	0.40	3.02	1-Mar	0.37	2.48
2-Mar	0.15	0.36	2-Mar	0.14	0.32	2-Mar	0.13	0.28	2-Mar	0.18	0.50	2-Mar	0.38	2.65	2-Mar	0.34	2.01
3-Mar	0.15	0.36	3-Mar	0.13	0.28	3-Mar	0.15	0.36	3-Mar	0.18	0.50	3-Mar	0.36	2.32	3-Mar	0.33	1.86
4-Mar	0.27	1.12	4-Mar	0.13	0.28	4-Mar	0.13	0.28	4-Mar	0.19	0.54	4-Mar	0.36	2.32	4-Mar	0.31	1.59
5-Mar	0.29	1.35	5-Mar	0.16	0.40	5-Mar	0.12	0.25	5-Mar	0.19	0.54	5-Mar	0.35	2.16	5-Mar	0.30	1.46
6-Mar	0.18	0.50	6-Mar	0.21	0.65	6-Mar	0.12	0.25	6-Mar	0.19	0.54	6-Mar	0.36	2.32	6-Mar	0.28	1.23
7-Mar	0.18	0.50	7-Mar	0.18	0.50	7-Mar	0.13	0.28	7-Mar	0.19	0.54	7-Mar	0.37	2.48	7-Mar	0.28	1.23
8-Mar	0.17	0.45	8-Mar	0.22	0.70	8-Mar	0.12	0.25	8-Mar	0.23	0.76	8-Mar	0.41	3.21	8-Mar	0.28	1.23
9-Mar	0.16	0.40	9-Mar	0.17	0.45	9-Mar	0.12	0.25	9-Mar	0.27	1.12	9-Mar	0.43	3.62	9-Mar	0.29	1.35
10-Mar	0.16	0.40	10-Mar	0.19	0.54	10-Mar	0.12	0.25	10-Mar	0.34	2.01	10-Mar	0.46	4.05	10-Mar	0.29	1.35
11-Mar	0.14	0.32	11-Mar	0.18	0.50	11-Mar	0.11	0.21	11-Mar	0.29	1.35	11-Mar	0.45	3.90	11-Mar	0.28	1.23
12-Mar	0.12	0.25	12-Mar	0.16	0.40	12-Mar	0.16	0.40	12-Mar	0.26	1.02	12-Mar	0.41	3.21	12-Mar	0.32	1.72
13-Mar	0.11	0.21	13-Mar	0.15	0.36	13-Mar	0.20	0.59	13-Mar	0.22	0.70	13-Mar	0.46	4.05	13-Mar	0.35	2.16
14-Mar	0.12	0.25	14-Mar	0.16	0.40	14-Mar	0.19	0.54	14-Mar	0.21	0.65	14-Mar	0.43	3.62	14-Mar	0.34	2.01
15-Mar	0.11	0.21	15-Mar	0.19	0.54	15-Mar	0.18	0.50	15-Mar	0.21	0.65	15-Mar	0.44	3.75	15-Mar	0.35	2.16
16-Mar	0.11	0.21	16-Mar	0.18	0.50	16-Mar	0.17	0.45	16-Mar	0.19	0.54	16-Mar	0.75	9.46	16-Mar	0.47	4.20
17-Mar	0.10	0.18	17-Mar	0.23	0.76	17-Mar	0.18	0.50	17-Mar	0.18	0.50	17-Mar	0.64	7.18	17-Mar	0.46	4.05
18-Mar	0.10	0.18	18-Mar	0.28													

Daily Mean Water Level and Flow at HHA04 on Kibos River (unit: H=m, Q=m³/s) * * * denotes estimated value by interpolation

1974	H	Q	1975	H	Q	1976	H	Q	1977	H	Q	1978	H	Q	1979	H	Q
19-Mar	0.13	0.28	19-Mar	0.25	0.93	19-Mar	0.18	0.50	19-Mar	0.20	0.59	19-Mar	0.53	5.18	19-Mar	0.51	4.84
20-Mar	0.16	0.40	20-Mar	0.30	1.46	20-Mar	0.19	0.54	20-Mar	0.35	2.16	20-Mar	0.48	4.36	20-Mar	0.82	11.05
21-Mar	0.20	0.59	21-Mar	0.30	1.46	21-Mar	0.18	0.50	21-Mar	0.33	1.86	21-Mar	0.45	3.90	21-Mar	0.61	6.61
22-Mar	0.21	0.65	22-Mar	0.25	0.93	22-Mar	0.19	0.54	22-Mar	0.25	0.93	22-Mar	0.46	4.05	22-Mar	0.53	5.18
23-Mar	0.13	0.28	23-Mar	0.31	1.59	23-Mar	0.20	0.59	23-Mar	0.23	0.76	23-Mar	0.42	3.41	23-Mar	0.49	4.52
24-Mar	0.16	0.40	24-Mar	0.27	1.12	24-Mar	0.18	0.50	24-Mar	0.22	0.70	24-Mar	0.54	5.35	24-Mar	0.46	4.05
25-Mar	0.23	0.76	25-Mar	0.22	0.70	25-Mar	0.26	1.02	25-Mar	0.21	0.65	25-Mar	0.51	4.84	25-Mar	0.43	3.62
26-Mar	0.23	0.76	26-Mar	0.22	0.70	26-Mar	0.28	1.23	26-Mar	0.27	1.12	26-Mar	0.49	4.52	26-Mar	0.40	3.02
27-Mar	0.32	1.72	27-Mar	0.18	0.50	27-Mar	0.19	0.54	27-Mar	0.34	2.01	27-Mar	0.45	3.90	27-Mar	0.37	2.48
28-Mar	0.29	1.35	28-Mar	0.17	0.45	28-Mar	0.17	0.45	28-Mar	0.30	1.46	28-Mar	0.44	3.75	28-Mar	0.34	2.01
29-Mar	0.31	1.59	29-Mar	0.18	0.50	29-Mar	0.18	0.50	29-Mar	0.27	1.12	29-Mar	0.43	3.62	29-Mar	0.36	2.32
30-Mar	0.42	3.41	30-Mar	0.18	0.50	30-Mar	0.17	0.45	30-Mar	0.30	1.46	30-Mar	0.44	3.75	30-Mar	0.34	2.01
31-Mar	0.55	5.52	31-Mar	0.20	0.59	31-Mar	0.17	0.45	31-Mar	0.31	1.59	31-Mar	0.40	3.02	31-Mar	0.34	2.01
1-Apr	0.39	2.83	1-Apr	0.32	1.72	1-Apr	0.15	0.36	1-Apr	0.29	1.35	1-Apr	0.39	2.83	1-Apr	0.36	2.32
2-Apr	0.40	3.02	2-Apr	0.28	1.23	2-Apr	0.18	0.50	2-Apr	0.27	1.12	2-Apr	0.44	3.75	2-Apr	0.36	2.32
3-Apr	0.43	3.62	3-Apr	0.23	0.76	3-Apr	0.14	0.32	3-Apr	0.40	3.02	3-Apr	0.42	3.41	3-Apr	0.37	2.48
4-Apr	0.51	4.84	4-Apr	0.20	0.59	4-Apr	0.13	0.28	4-Apr	0.30	1.46	4-Apr	0.37	2.48	4-Apr	0.34	2.01
5-Apr	0.37	2.48	5-Apr	0.19	0.54	5-Apr	0.13	0.28	5-Apr	0.33	1.86	5-Apr	0.85	11.76	5-Apr	0.33	1.86
6-Apr	0.53	5.18	6-Apr	0.19	0.54	6-Apr	0.18	0.50	6-Apr	0.46	4.05	6-Apr	0.85	11.76	6-Apr	0.37	2.48
7-Apr	0.53	5.18	7-Apr	0.18	0.50	7-Apr	0.19	0.54	7-Apr	0.55	5.52	7-Apr	0.72	8.81	7-Apr	0.44	3.75
8-Apr	0.49	4.52	8-Apr	0.17	0.45	8-Apr	0.16	0.40	8-Apr	0.58	6.05	8-Apr	0.55	5.52	8-Apr	0.62	6.80
9-Apr	0.48	4.36	9-Apr	0.16	0.40	9-Apr	0.21	0.65	9-Apr	0.53	5.18	9-Apr	0.66	7.58	9-Apr	0.78	10.13
10-Apr	0.49	4.52	10-Apr	0.17	0.45	10-Apr	0.24	0.84	10-Apr	0.64	7.18	10-Apr	0.66	7.58	10-Apr	0.66	7.58
11-Apr	0.45	3.90	11-Apr	0.30	1.46	11-Apr	0.25	0.93	11-Apr	0.62	6.80	11-Apr	0.84	11.52	11-Apr	0.64	7.18
12-Apr	0.45	3.90	12-Apr	0.23	0.76	12-Apr	0.32	1.72	12-Apr	0.53	5.18	12-Apr	0.76	9.68	12-Apr	0.56	5.70
13-Apr	0.43	3.62	13-Apr	0.30	1.46	13-Apr	0.30	1.46	13-Apr	0.48	4.36	13-Apr	0.62	6.80	13-Apr	0.52	5.01
14-Apr	0.69	8.19	14-Apr	0.29	1.35	14-Apr	0.22	0.70	14-Apr	0.43	3.62	14-Apr	0.57	5.87	14-Apr	0.50	4.68
15-Apr	0.59	6.24	15-Apr	0.34	2.01	15-Apr	0.26	1.02	15-Apr	0.46	4.05	15-Apr	0.54	5.35	15-Apr	0.47	4.20
16-Apr	0.56	5.70	16-Apr	0.37	2.48	16-Apr	0.43	3.62	16-Apr	0.47	4.20	16-Apr	0.53	5.18	16-Apr	0.46	4.05
17-Apr	0.53	5.18	17-Apr	0.43	3.62	17-Apr	0.27	1.12	17-Apr	0.45	3.90	17-Apr	0.50	4.68	17-Apr	0.43	3.62
18-Apr	0.54	5.35	18-Apr	0.44	3.75	18-Apr	0.23	0.76	18-Apr	0.40	3.02	18-Apr	0.48	4.36	18-Apr	0.43	3.62
19-Apr	0.44	3.75	19-Apr	0.40	3.02	19-Apr	0.23	0.76	19-Apr	0.38	2.65	19-Apr	0.46	4.05	19-Apr	0.42	3.41
20-Apr	0.36	2.32	20-Apr	0.31	1.59	20-Apr	0.30	1.46	20-Apr	0.35	2.16	20-Apr	0.44	3.75	20-Apr	0.39	2.83
21-Apr	0.33	1.86	21-Apr	0.27	1.12	21-Apr	0.22	0.70	21-Apr	0.34	2.01	21-Apr	0.43	3.62	21-Apr	0.36	2.32
22-Apr	0.31	1.59	22-Apr	0.34	2.01	22-Apr	0.21	0.65	22-Apr	0.32	1.72	22-Apr	0.40	3.02	22-Apr	0.36	2.32
23-Apr	0.31	1.59	23-Apr	0.40	3.02	23-Apr	0.24	0.84	23-Apr	0.31	1.59	23-Apr	0.40	3.02	23-Apr	0.36	2.32
24-Apr	0.35	2.16	24-Apr	0.38	2.65	24-Apr	0.46	4.05	24-Apr	0.32	1.72	24-Apr	0.40	3.02	24-Apr	0.36	2.32
25-Apr	0.35	2.16	25-Apr	0.33	1.86	25-Apr	0.49	4.52	25-Apr	0.31	1.59	25-Apr	0.39	2.83	25-Apr	0.35	2.16
26-Apr	0.39	2.83	26-Apr	0.30	1.46	26-Apr	0.46	4.05	26-Apr	0.30	1.46	26-Apr	0.46	4.05	26-Apr	0.38	2.65
27-Apr	0.38	2.65	27-Apr	0.27	1.12	27-Apr	0.30	1.46	27-Apr	0.35	2.16	27-Apr	0.40	3.02	27-Apr	0.31	1.59
28-Apr	0.36	2.32	28-Apr	0.26	1.02	28-Apr	0.30	1.46	28-Apr	0.32	1.72	28-Apr	0.41	3.21	28-Apr	0.32	1.72
29-Apr	0.35	2.16	29-Apr	0.25	0.93	29-Apr	0.26	1.02	29-Apr	0.38	2.65	29-Apr	0.42	3.41	29-Apr	0.42	3.41
30-Apr	0.35	2.16	30-Apr	0.24	0.84	30-Apr	0.26	1.02	30-Apr	0.32	1.72	30-Apr	0.59	6.24	30-Apr	0.34	2.01
1-May	0.35	2.16	1-May	0.22	0.70	1-May	0.23	0.76	1-May	0.30	1.46	1-May	0.46	4.05	1-May	0.33	1.86
2-May	0.36	2.32	2-May	0.22	0.70	2-May	0.21	0.65	2-May	0.31	1.59	2-May	0.53	5.18	2-May	0.38	2.65
3-May	0.36	2.32	3-May	0.21	0.65	3-May	0.21	0.65	3-May	0.61	6.61	3-May	0.51	4.84	3-May	0.34	2.01
4-May	0.34	2.01	4-May	0.20	0.59	4-May	0.24	0.84	4-May	0.48	4.36	4-May	0.50	4.68	4-May	0.33	1.86
5-May	0.30	1.46	5-May	0.21	0.65	5-May	0.23	0.76	5-May	0.42	3.41	5-May	0.64	7.18	5-May	0.38	2.65
6-May	0.32	1.72	6-May	0.32	1.72	6-May	0.21	0.65	6-May	0.39	2.83	6-May	0.66	7.58	6-May	0.39	2.83
7-May	0.30	1.46	7-May	0.24	0.84	7-May	0.21	0.65	7-May	0.49	4.52	7-May	0.70	8.39	7-May	0.43	3.62
8-May	0.44	3.75	8-May	0.21	0.65	8-May	0.23	0.76	8-May	0.62	6.80	8-May	0.63	6.99	8-May	0.63	6.99
9-May	0.36	2.32	9-May	0.19	0.54	9-May	0.21	0.65	9-May	0.51	4.84	9-May	0.92	13.49	9-May	0.90	12.98
10-May	0.34	2.01	10-May	0.20	0.59	10-May	0.21	0.65	10-May	0.48	4.36	10-May	0.84	11.52	10-May	0.49	4.52
11-May	0.35	2.16	11-May	0.18	0.50	11-May	0.21	0.65	11-May	0.44	3.75	11-May	0.73	9.03	11-May	0.48	4.36
12-May	0.32	1.72	12-May	0.19	0.54	12-May	0.21	0.65	12-May	0.41	3.21	12-May	0.90	12.98	12-May	0.48	4.36
13-May	0.36	2.32	13-May	0.21	0.65	13-May	0.20	0.59	13-May	0.45	3.90	13-May	0.76	9.68	13-May	0.54	5.35
14-May	0.31	1.59	14-May	0.25	0.93	14-May	0.29	1.35	14-May	0.43	3.62	14-May	0.75	9.46	14-May	0.48	4.36
15-May	0.37	2.48	15-May	0.37	2.48	15-May	0.28	1.23	15-May	0.40	3.02	15-May	0.60	6.42	15-May	0.44	3.75
16-May	0.38	2.65	16-May	0.30	1.46	16-May	0.27	1.12	16-May	0.35	2.16	16-May	0.79	10.35	16-May	0.40	3.02
17-May	0.34	2.01	17-May	0.27	1.12	17-May	0.21	0.65	17-May	0.37	2.48	17-May	0.78	10.13	17-May	0.38	2.65
18-May	0.37	2.48	18-May	0.26	1.02	18-May	0.21	0.65	18-May	0.43	3.62	18-May	0.60	6.42	18-May	0.37	2.48
19-May	0.36	2.32	19-May	0.26	1.02	19-May	0.30	1.46	19-May	0.36	2.32	19-May	0.57	5.87	19-May	0.37	2.48
20-May	0.35	2.16	20-May	0.31	1.59	20-May	0.27	1.12	20-May	0.34	2.01	20-May	0.54	5.35	20-May	0.37	2.48
21-May	0.33	1.86	21-May	0.30	1.46	21-May	0.30	1.46	21-May	0.43	3.62	21-May	0.51	4.84	21-May	0.37	2.48
22-May	0.31	1.59	22-May	0.29	1.35	22-May	0.39	2.83	22-May	0.39	2.83	22-May	0.57	5.87	22-May	0.36	2.32
23-May	0.33	1.86	23-May	0.40	3.02	23-May	0.30	1.46	23-May	0.34	2.01	23-May	0.52	5.01	23-May	0.35	2.16
24-May	0.31	1.59	24-May	0.37	2.48	24-May	0.28	1.23	24-May	0.37	2.48	24-May	0.50	4.68	24-May	0.40	3.02
25-May	0.31	1.59	25-May	0.36	2.32	25-May	0.29	1.35	25-May	0.39	2.83	25-May	0.52	5.01	25-May	0.37	2.48
26-May	0.30	1.46	26-May	0.43	3.62	26-May	0.25	0.93	26-May	0.50	4.68	26-May	0.45	4.05	26-May	0.35	2.16
27-May	0.29	1.35	27-May	0.52	5.01	27-May	0.29	1.35	27-May	0.39	2.83	27-May	0.47	4.20	27-May	0.35	2.16
28-May	0.27	1.12	28-May	0.42	3.41	28-May	0.26	1.02	28-May	0.50	4.68	28-May	0.46	4.05	28-May	0.46	4.05
29-May	0.31	1.59	29-May	0.37	2.48	29-May	0.27	1.12	29-May	0.47	4.20	29-May	0.45	3.90	29-May	0.41	3.21
30-May	0.31	1.59	30-May	0.34	2.01	30-May	0.24	0.84	30-May	0.41	3.21	30-May	0.44	3.75	30-May	0.46	4.05
31-May	0.33	1.86	31-May	0.30	1.46	31-May	0.27	1.12	31-May	0.54	5.35	31-May	0.41	3.21	31-May	0.44	3.75
1-Jun	0.31	1.59	1-Jun	0.30	1.46	1-Jun	0.27	1.12	1-Jun	0.46	4.05	1-Jun	0.41	3.21	1-Jun	0.39	2.83
2-Jun	0.39	2.83	2-Jun	0.32	1.72	2-Jun	0.30	1.46	2-Jun	0.44	3.75	2-Jun	0.40	3.02	2-Jun	0.40	3.02
3-Jun	0.36	2.32	3-Jun	0.													

Daily Mean Water Level and Flow at HIA01 on Kibos River (unit: H=m, Q=m³/s) *** denotes estimated value by interpolation

1974	H	Q	1975	H	Q	1976	H	Q	1977	H	Q	1978	H	Q	1979	H	Q
4-Jun	0.32	1.72	4-Jun	0.30	1.46	4-Jun	0.26	1.02	4-Jun	0.38	2.65	4-Jun	0.39	2.83	4-Jun	0.38	2.65
5-Jun	0.32	1.72	5-Jun	0.28	1.23	5-Jun	0.30	1.46	5-Jun	0.40	3.02	5-Jun	0.38	2.65	5-Jun	0.46	4.05
6-Jun	0.30	1.46	6-Jun	0.27	1.12	6-Jun	0.32	1.72	6-Jun	0.40	3.02	6-Jun	0.37	2.48	6-Jun	0.43	3.62
7-Jun	0.30	1.46	7-Jun	0.33	1.86	7-Jun	0.47	4.20	7-Jun	0.43	3.62	7-Jun	0.39	2.83	7-Jun	0.38	2.65
8-Jun	0.28	1.23	8-Jun	0.28	1.23	8-Jun	0.36	2.32	8-Jun	0.46	4.05	8-Jun	0.47	4.20	8-Jun	0.41	3.21
9-Jun	0.27	1.12	9-Jun	0.26	1.02	9-Jun	0.35	2.16	9-Jun	0.42	3.41	9-Jun	0.40	3.02	9-Jun	0.46	4.05
10-Jun	0.38	2.65	10-Jun	0.32	1.72	10-Jun	0.35	2.16	10-Jun	0.52	5.01	10-Jun	0.38	2.65	10-Jun	0.45	3.90
11-Jun	0.30	1.46	11-Jun	0.30	1.46	11-Jun	0.33	1.86	11-Jun	0.43	3.62	11-Jun	0.39	2.83	11-Jun	0.44	3.75
12-Jun	0.28	1.23	12-Jun	0.32	1.72	12-Jun	0.28	1.23	12-Jun	0.47	4.20	12-Jun	0.43	3.62	12-Jun	0.41	3.21
13-Jun	0.28	1.23	13-Jun	0.36	2.32	13-Jun	0.27	1.12	13-Jun	0.42	3.41	13-Jun	0.40	3.02	13-Jun	0.40	3.02
14-Jun	0.27	1.12	14-Jun	0.39	2.83	14-Jun	0.27	1.12	14-Jun	0.39	2.83	14-Jun	0.37	2.48	14-Jun	0.49	4.52
15-Jun	0.27	1.12	15-Jun	0.36	2.32	15-Jun	0.24	0.84	15-Jun	0.44	3.75	15-Jun	0.36	2.32	15-Jun	0.43	3.62
16-Jun	0.40	3.02	16-Jun	0.34	2.01	16-Jun	0.29	1.35	16-Jun	0.56	5.70	16-Jun	0.35	2.16	16-Jun	0.40	3.02
17-Jun	0.44	3.75	17-Jun	0.40	3.02	17-Jun	0.26	1.02	17-Jun	0.54	5.35	17-Jun	0.34	2.01	17-Jun	0.40	3.02
18-Jun	0.39	2.83	18-Jun	0.32	1.72	18-Jun	0.26	1.02	18-Jun	0.55	5.52	18-Jun	0.37	2.48	18-Jun	0.39	2.83
19-Jun	0.36	2.32	19-Jun	0.32	1.72	19-Jun	0.30	1.46	19-Jun	0.48	4.36	19-Jun	0.36	2.32	19-Jun	0.48	4.36
20-Jun	0.42	3.41	20-Jun	0.33	1.86	20-Jun	0.26	1.02	20-Jun	0.46	4.05	20-Jun	0.34	2.01	20-Jun	0.43	3.62
21-Jun	0.43	3.62	21-Jun	0.36	2.32	21-Jun	0.24	0.84	21-Jun	0.44	3.75	21-Jun	0.34	2.01	21-Jun	0.40	3.02
22-Jun	0.39	2.83	22-Jun	0.33	1.86	22-Jun	0.24	0.84	22-Jun	0.42	3.41	22-Jun	0.34	2.01	22-Jun	0.40	3.02
23-Jun	0.33	1.86	23-Jun	0.30	1.46	23-Jun	0.23	0.76	23-Jun	0.39	2.83	23-Jun	0.34	2.01	23-Jun	0.38	2.65
24-Jun	0.39	2.83	24-Jun	0.29	1.35	24-Jun	0.28	1.23	24-Jun	0.39	2.83	24-Jun	0.34	2.01	24-Jun	0.37	2.48
25-Jun	0.42	3.41	25-Jun	0.28	1.23	25-Jun	0.25	0.93	25-Jun	0.37	2.48	25-Jun	0.33	1.86	25-Jun	0.37	2.48
26-Jun	0.51	4.84	26-Jun	0.28	1.23	26-Jun	0.24	0.84	26-Jun	0.38	2.65	26-Jun	0.37	2.48	26-Jun	0.37	2.48
27-Jun	0.46	4.05	27-Jun	0.29	1.35	27-Jun	0.24	0.84	27-Jun	0.36	2.32	27-Jun	0.32	1.72	27-Jun	0.37	2.48
28-Jun	0.46	4.05	28-Jun	0.27	1.12	28-Jun	0.24	0.84	28-Jun	0.42	3.41	28-Jun	0.30	1.46	28-Jun	0.35	2.16
29-Jun	0.46	4.05	29-Jun	0.27	1.12	29-Jun	0.23	0.76	29-Jun	0.39	2.83	29-Jun	0.32	1.72	29-Jun	0.33	1.86
30-Jun	0.42	3.41	30-Jun	0.26	1.02	30-Jun	0.22	0.70	30-Jun	0.36	2.32	30-Jun	0.34	2.01	30-Jun	0.33	1.86
1-Jul	0.43	3.62	1-Jul	0.25	0.93	1-Jul	*0.22	0.70	1-Jul	0.40	3.02	1-Jul	0.37	2.48	1-Jul	0.34	2.01
2-Jul	0.40	3.02	2-Jul	0.25	0.93	2-Jul	*0.22	0.70	2-Jul	0.40	3.02	2-Jul	0.33	1.86	2-Jul	0.35	2.16
3-Jul	0.46	4.05	3-Jul	0.24	0.84	3-Jul	*0.22	0.70	3-Jul	0.35	2.16	3-Jul	0.32	1.72	3-Jul	0.40	3.02
4-Jul	0.46	4.05	4-Jul	0.25	0.93	4-Jul	*0.22	0.70	4-Jul	0.41	3.21	4-Jul	0.40	3.02	4-Jul	0.38	2.65
5-Jul	0.51	4.84	5-Jul	0.24	0.84	5-Jul	*0.22	0.70	5-Jul	0.37	2.48	5-Jul	0.35	2.16	5-Jul	0.38	2.65
6-Jul	0.51	4.84	6-Jul	0.24	0.84	6-Jul	*0.22	0.70	6-Jul	0.41	3.21	6-Jul	0.33	1.86	6-Jul	0.35	2.16
7-Jul	0.53	5.18	7-Jul	0.24	0.84	7-Jul	*0.22	0.70	7-Jul	0.55	5.52	7-Jul	0.31	1.59	7-Jul	0.36	2.32
8-Jul	0.51	4.84	8-Jul	0.23	0.76	8-Jul	*0.22	0.70	8-Jul	0.43	3.62	8-Jul	0.32	1.72	8-Jul	0.41	3.21
9-Jul	0.47	4.20	9-Jul	0.28	1.23	9-Jul	*0.22	0.70	9-Jul	0.39	2.83	9-Jul	0.35	2.16	9-Jul	0.36	2.32
10-Jul	0.45	3.90	10-Jul	0.30	1.46	10-Jul	*0.22	0.70	10-Jul	0.37	2.48	10-Jul	0.32	1.72	10-Jul	0.34	2.01
11-Jul	0.42	3.41	11-Jul	0.26	1.02	11-Jul	*0.22	0.70	11-Jul	0.44	3.75	11-Jul	0.30	1.46	11-Jul	0.34	2.01
12-Jul	0.42	3.41	12-Jul	0.29	1.35	12-Jul	*0.22	0.70	12-Jul	0.41	3.21	12-Jul	0.30	1.46	12-Jul	0.33	1.86
13-Jul	0.45	3.90	13-Jul	0.34	2.01	13-Jul	*0.22	0.70	13-Jul	0.61	6.61	13-Jul	0.34	2.01	13-Jul	0.36	2.32
14-Jul	0.53	5.18	14-Jul	0.27	1.12	14-Jul	*0.22	0.70	14-Jul	0.48	4.36	14-Jul	0.30	1.46	14-Jul	0.36	2.32
15-Jul	0.53	5.18	15-Jul	0.25	0.93	15-Jul	*0.22	0.70	15-Jul	0.43	3.62	15-Jul	0.37	2.48	15-Jul	0.37	2.48
16-Jul	0.51	4.84	16-Jul	0.27	1.12	16-Jul	*0.23	0.76	16-Jul	0.40	3.02	16-Jul	0.31	1.59	16-Jul	0.34	2.01
17-Jul	0.48	4.36	17-Jul	0.30	1.46	17-Jul	*0.23	0.76	17-Jul	0.39	2.83	17-Jul	0.30	1.46	17-Jul	0.33	1.86
18-Jul	0.46	4.05	18-Jul	0.27	1.12	18-Jul	*0.23	0.76	18-Jul	0.38	2.65	18-Jul	0.29	1.35	18-Jul	0.32	1.72
19-Jul	0.43	3.62	19-Jul	0.37	2.48	19-Jul	*0.23	0.76	19-Jul	0.37	2.48	19-Jul	0.29	1.35	19-Jul	0.31	1.59
20-Jul	0.41	3.21	20-Jul	0.62	6.80	20-Jul	*0.23	0.76	20-Jul	0.35	2.16	20-Jul	0.32	1.72	20-Jul	0.31	1.59
21-Jul	0.40	3.02	21-Jul	0.42	3.41	21-Jul	*0.23	0.76	21-Jul	0.34	2.01	21-Jul	0.27	1.12	21-Jul	0.30	1.46
22-Jul	0.40	3.02	22-Jul	0.40	3.02	22-Jul	*0.23	0.76	22-Jul	0.35	2.16	22-Jul	0.28	1.23	22-Jul	0.30	1.46
23-Jul	0.40	3.02	23-Jul	0.46	4.05	23-Jul	*0.23	0.76	23-Jul	0.40	3.02	23-Jul	0.32	1.72	23-Jul	0.30	1.46
24-Jul	0.40	3.02	24-Jul	0.41	3.21	24-Jul	*0.23	0.76	24-Jul	0.35	2.16	24-Jul	0.30	1.46	24-Jul	0.30	1.46
25-Jul	0.37	2.48	25-Jul	0.57	5.87	25-Jul	*0.23	0.76	25-Jul	0.33	1.86	25-Jul	0.29	1.35	25-Jul	0.29	1.35
26-Jul	0.45	3.90	26-Jul	0.79	10.35	26-Jul	*0.23	0.76	26-Jul	0.32	1.72	26-Jul	0.28	1.23	26-Jul	0.32	1.72
27-Jul	0.41	3.21	27-Jul	0.87	12.24	27-Jul	*0.23	0.76	27-Jul	0.37	2.48	27-Jul	0.28	1.23	27-Jul	0.30	1.46
28-Jul	0.44	3.75	28-Jul	0.77	9.90	28-Jul	*0.23	0.76	28-Jul	0.34	2.01	28-Jul	0.27	1.12	28-Jul	0.29	1.35
29-Jul	0.39	2.83	29-Jul	0.54	5.35	29-Jul	*0.23	0.76	29-Jul	0.31	1.59	29-Jul	0.29	1.35	29-Jul	0.29	1.35
30-Jul	0.39	2.83	30-Jul	0.49	4.52	30-Jul	*0.23	0.76	30-Jul	0.35	2.16	30-Jul	0.31	1.59	30-Jul	0.29	1.35
31-Jul	0.38	2.65	31-Jul	0.46	4.05	31-Jul	*0.23	0.76	31-Jul	0.32	1.72	31-Jul	0.32	1.72	31-Jul	0.28	1.23
1-Aug	0.34	2.01	1-Aug	0.46	4.05	1-Aug	0.24	0.84	1-Aug	0.33	1.86	1-Aug	0.27	1.12	1-Aug	0.29	1.35
2-Aug	0.33	1.86	2-Aug	0.46	4.05	2-Aug	0.23	0.76	2-Aug	0.31	1.59	2-Aug	0.29	1.35	2-Aug	0.30	1.46
3-Aug	0.33	1.86	3-Aug	0.42	3.41	3-Aug	0.21	0.65	3-Aug	0.34	2.01	3-Aug	0.27	1.12	3-Aug	0.30	1.46
4-Aug	0.32	1.72	4-Aug	0.37	2.48	4-Aug	0.20	0.59	4-Aug	0.32	1.72	4-Aug	0.27	1.12	4-Aug	0.30	1.46
5-Aug	0.32	1.72	5-Aug	0.36	2.32	5-Aug	0.20	0.59	5-Aug	0.35	2.16	5-Aug	0.52	5.01	5-Aug	0.28	1.23
6-Aug	0.30	1.46	6-Aug	0.38	2.65	6-Aug	0.20	0.59	6-Aug	0.31	1.59	6-Aug	0.39	2.83	6-Aug	0.27	1.12
7-Aug	0.30	1.46	7-Aug	0.39	2.83	7-Aug	0.26	1.02	7-Aug	0.30	1.46	7-Aug	0.33	1.86	7-Aug	0.27	1.12
8-Aug	0.29	1.35	8-Aug	0.35	2.16	8-Aug	0.22	0.70	8-Aug	0.30	1.46	8-Aug	0.30	1.46	8-Aug	0.27	1.12
9-Aug	0.30	1.46	9-Aug	0.34	2.01	9-Aug	0.34	2.01	9-Aug	0.32	1.72	9-Aug	0.32	1.72	9-Aug	0.27	1.12
10-Aug	0.29	1.35	10-Aug	0.35	2.16	10-Aug	0.29	1.35	10-Aug	0.31	1.59	10-Aug	0.30	1.46	10-Aug	0.27	1.12
11-Aug	0.29	1.35	11-Aug	0.34	2.01	11-Aug	0.28	1.23	11-Aug	0.28	1.23	11-Aug	0.28	1.23	11-Aug	0.27	1.12
12-Aug	0.30	1.46	12-Aug	0.34	2.01	12-Aug	0.26	1.02	12-Aug	0.27	1.12	12-Aug	0.28	1.23	12-Aug	0.26	1.02
13-Aug	0.32	1.72	13-Aug	0.32	1.72	13-Aug	0.25	0.93	13-Aug	0.27	1.12	13-Aug	0.27	1.12	13-Aug	0.61	6.61
14-Aug	0.33	1.86	14-Aug	0.31	1.59	14-Aug	0.24	0.84	14-Aug	0.27	1.12	14-Aug	0.27	1.12	14-Aug	0.39	2.83
15-Aug	0.47	4.20	15-Aug	0.30	1.46	15-Aug	0.26	1.02	15-Aug	0.27	1.12	15-Aug	0.27	1.12	15-Aug	0.60	6.42
16-Aug	0.43	3.62	16-Aug	0.35	2.16	16-Aug	0.28	1.23	16-Aug	0.30	1.46	16-Aug	0.25	0.93	16-Aug	0.52	5.01
17-Aug	0.30	1.46	17-Aug	0.31	1.59	17-Aug	0.37	2.48	17-Aug	0.34	2.01	17-Aug	0.27	1.12	17-Aug	0.61	6.61
18-Aug	0.30	1.46	18-Aug	0.35	2.16	18-Aug	0.30	1.46	18-Aug	0.34	2.01	18-Aug	0.27	1.12	18-Aug	0.55	5.52
19-Aug	0.29	1.35	19-Aug	0.44													

Daily Mean Water Level and Flow at HHA04 on Kibos River (unit: H:m, Q:m³/s) * * * denotes estimated value by interpolation

1974	H	Q	1975	H	Q	1976	H	Q	1977	H	Q	1978	H	Q	1979	H	Q
20-Aug	0.29	1.35	20-Aug	0.35	2.16	20-Aug	0.26	1.02	20-Aug	0.29	1.35	20-Aug	0.27	1.12	20-Aug	0.45	3.90
21-Aug	0.29	1.35	21-Aug	0.36	2.32	21-Aug	0.24	0.84	21-Aug	0.27	1.12	21-Aug	0.27	1.12	21-Aug	0.40	3.02
22-Aug	0.29	1.35	22-Aug	0.44	3.75	22-Aug	0.28	1.23	22-Aug	0.27	1.12	22-Aug	0.27	1.12	22-Aug	0.38	2.65
23-Aug	0.27	1.12	23-Aug	0.39	2.83	23-Aug	0.24	0.84	23-Aug	0.28	1.23	23-Aug	0.28	1.23	23-Aug	0.40	3.02
24-Aug	0.27	1.12	24-Aug	0.43	3.62	24-Aug	0.23	0.76	24-Aug	0.34	2.01	24-Aug	0.34	2.01	24-Aug	0.38	2.65
25-Aug	0.27	1.12	25-Aug	0.48	4.36	25-Aug	0.29	1.35	25-Aug	0.30	1.46	25-Aug	0.49	4.52	25-Aug	0.37	2.48
26-Aug	0.26	1.02	26-Aug	0.44	3.75	26-Aug	0.49	4.52	26-Aug	0.30	1.46	26-Aug	0.33	1.86	26-Aug	0.35	2.16
27-Aug	0.35	2.16	27-Aug	0.39	2.83	27-Aug	0.39	2.83	27-Aug	0.30	1.46	27-Aug	0.32	1.72	27-Aug	0.38	2.65
28-Aug	0.30	1.46	28-Aug	0.38	2.65	28-Aug	0.34	2.01	28-Aug	0.37	2.48	28-Aug	0.29	1.35	28-Aug	0.39	2.83
29-Aug	0.29	1.35	29-Aug	0.40	3.02	29-Aug	0.33	1.86	29-Aug	0.60	6.42	29-Aug	0.32	1.72	29-Aug	0.39	2.83
30-Aug	0.30	1.46	30-Aug	0.46	4.05	30-Aug	0.30	1.46	30-Aug	0.57	5.87	30-Aug	0.27	1.12	30-Aug	0.35	2.16
31-Aug	0.29	1.35	31-Aug	0.44	3.75	31-Aug	0.32	1.72	31-Aug	0.48	4.36	31-Aug	0.25	0.93	31-Aug	0.41	3.21
1-Sep	0.41	3.21	1-Sep	0.37	2.48	1-Sep	0.29	1.35	1-Sep	0.43	3.62	1-Sep	0.45	3.90	1-Sep	0.37	2.48
2-Sep	0.49	4.52	2-Sep	0.37	2.48	2-Sep	0.33	1.86	2-Sep	0.41	3.21	2-Sep	0.42	3.41	2-Sep	0.36	2.32
3-Sep	0.45	3.90	3-Sep	0.43	3.62	3-Sep	0.39	2.83	3-Sep	0.39	2.83	3-Sep	0.37	2.48	3-Sep	0.35	2.16
4-Sep	0.61	6.61	4-Sep	0.43	3.62	4-Sep	0.42	3.41	4-Sep	0.39	2.83	4-Sep	0.32	1.72	4-Sep	0.36	2.32
5-Sep	0.50	4.68	5-Sep	0.48	4.36	5-Sep	0.41	3.21	5-Sep	0.37	2.48	5-Sep	0.32	1.72	5-Sep	0.34	2.01
6-Sep	0.50	4.68	6-Sep	0.70	8.39	6-Sep	0.38	2.65	6-Sep	0.37	2.48	6-Sep	0.30	1.46	6-Sep	0.34	2.01
7-Sep	0.76	9.68	7-Sep	0.53	5.18	7-Sep	0.32	1.72	7-Sep	0.39	2.83	7-Sep	0.29	1.35	7-Sep	0.34	2.01
8-Sep	0.59	6.24	8-Sep	0.42	3.41	8-Sep	0.32	1.72	8-Sep	0.35	2.16	8-Sep	0.28	1.23	8-Sep	0.40	3.02
9-Sep	0.45	3.90	9-Sep	0.42	3.41	9-Sep	0.30	1.46	9-Sep	0.34	2.01	9-Sep	0.30	1.46	9-Sep	0.43	3.62
10-Sep	0.46	4.05	10-Sep	0.42	3.41	10-Sep	0.38	2.13	10-Sep	0.45	3.90	10-Sep	0.29	1.35	10-Sep	0.38	2.65
11-Sep	0.44	3.75	11-Sep	0.39	2.83	11-Sep	0.28	1.23	11-Sep	0.39	2.83	11-Sep	0.29	1.35	11-Sep	0.50	4.68
12-Sep	0.42	3.41	12-Sep	0.41	3.21	12-Sep	0.27	1.12	12-Sep	0.45	3.90	12-Sep	0.27	1.12	12-Sep	0.41	3.21
13-Sep	0.43	3.62	13-Sep	0.38	2.65	13-Sep	0.27	1.12	13-Sep	0.37	2.48	13-Sep	0.27	1.12	13-Sep	0.37	2.48
14-Sep	0.41	3.21	14-Sep	0.41	3.21	14-Sep	0.26	1.02	14-Sep	0.36	2.32	14-Sep	0.27	1.12	14-Sep	0.45	3.90
15-Sep	0.39	2.83	15-Sep	0.40	3.02	15-Sep	0.29	1.35	15-Sep	0.35	2.16	15-Sep	0.27	1.12	15-Sep	0.39	2.83
16-Sep	0.37	2.48	16-Sep	0.36	2.32	16-Sep	0.28	1.23	16-Sep	0.35	2.16	16-Sep	0.27	1.12	16-Sep	0.34	2.01
17-Sep	0.43	3.62	17-Sep	0.35	2.16	17-Sep	0.39	2.83	17-Sep	0.35	2.16	17-Sep	0.29	1.35	17-Sep	0.34	2.01
18-Sep	0.76	9.68	18-Sep	0.37	2.48	18-Sep	0.38	2.65	18-Sep	0.49	4.52	18-Sep	0.29	1.35	18-Sep	0.32	1.72
19-Sep	0.58	6.05	19-Sep	0.37	2.48	19-Sep	0.29	1.35	19-Sep	0.37	2.48	19-Sep	0.25	0.93	19-Sep	0.37	2.48
20-Sep	0.34	2.01	20-Sep	0.37	2.48	20-Sep	0.27	1.12	20-Sep	0.36	2.32	20-Sep	0.33	1.86	20-Sep	0.37	2.48
21-Sep	0.50	4.68	21-Sep	0.40	3.02	21-Sep	0.27	1.12	21-Sep	0.39	2.83	21-Sep	0.25	0.93	21-Sep	0.34	2.01
22-Sep	0.48	4.36	22-Sep	0.43	3.62	22-Sep	0.28	1.23	22-Sep	0.38	2.65	22-Sep	0.25	0.93	22-Sep	0.39	2.83
23-Sep	0.47	4.20	23-Sep	0.41	3.21	23-Sep	0.27	1.12	23-Sep	0.34	2.01	23-Sep	0.35	2.16	23-Sep	0.34	2.01
24-Sep	0.41	3.21	24-Sep	0.38	2.65	24-Sep	0.25	0.93	24-Sep	0.32	1.72	24-Sep	0.30	1.46	24-Sep	0.41	3.21
25-Sep	0.58	6.05	25-Sep	0.39	2.83	25-Sep	0.34	2.01	25-Sep	0.30	1.46	25-Sep	0.45	3.90	25-Sep	0.36	2.32
26-Sep	0.48	4.36	26-Sep	0.40	3.02	26-Sep	0.31	1.59	26-Sep	0.30	1.46	26-Sep	0.47	4.20	26-Sep	0.35	2.16
27-Sep	0.43	3.62	27-Sep	0.41	3.21	27-Sep	0.27	1.12	27-Sep	0.30	1.46	27-Sep	0.40	3.02	27-Sep	0.34	2.01
28-Sep	0.49	4.52	28-Sep	0.37	2.48	28-Sep	0.25	0.93	28-Sep	0.30	1.46	28-Sep	0.34	2.01	28-Sep	0.32	1.72
29-Sep	0.51	4.84	29-Sep	0.39	2.83	29-Sep	0.26	1.02	29-Sep	0.28	1.23	29-Sep	0.42	3.41	29-Sep	0.32	1.72
30-Sep	0.49	4.52	30-Sep	0.49	4.52	30-Sep	0.26	1.02	30-Sep	0.27	1.12	30-Sep	0.44	3.75	30-Sep	0.32	1.72
1-Oct	0.58	6.05	1-Oct	0.40	3.02	1-Oct	0.26	1.02	1-Oct	0.27	1.12	1-Oct	0.39	2.83	1-Oct	0.35	2.16
2-Oct	0.58	6.05	2-Oct	0.38	2.65	2-Oct	0.24	0.84	2-Oct	0.27	1.12	2-Oct	0.39	2.83	2-Oct	0.34	2.01
3-Oct	0.58	6.05	3-Oct	0.34	2.01	3-Oct	0.24	0.84	3-Oct	0.27	1.12	3-Oct	0.42	3.41	3-Oct	0.32	1.72
4-Oct	0.57	5.87	4-Oct	0.40	3.02	4-Oct	0.24	0.84	4-Oct	0.27	1.12	4-Oct	0.39	2.83	4-Oct	0.31	1.59
5-Oct	0.62	6.80	5-Oct	0.52	5.01	5-Oct	0.25	0.93	5-Oct	0.26	1.02	5-Oct	0.36	2.32	5-Oct	0.32	1.72
6-Oct	0.52	5.01	6-Oct	0.43	3.62	6-Oct	0.25	0.93	6-Oct	0.29	1.35	6-Oct	0.36	2.32	6-Oct	0.32	1.72
7-Oct	0.50	4.68	7-Oct	0.44	3.75	7-Oct	0.24	0.84	7-Oct	0.26	1.02	7-Oct	0.35	2.16	7-Oct	0.27	1.12
8-Oct	0.47	4.20	8-Oct	0.43	3.62	8-Oct	0.22	0.70	8-Oct	0.26	1.02	8-Oct	0.36	2.32	8-Oct	0.27	1.12
9-Oct	0.45	3.90	9-Oct	0.39	2.83	9-Oct	0.22	0.70	9-Oct	0.31	1.59	9-Oct	0.36	2.32	9-Oct	0.27	1.12
10-Oct	0.43	3.62	10-Oct	0.36	2.32	10-Oct	0.21	0.65	10-Oct	0.25	0.93	10-Oct	0.34	2.01	10-Oct	0.27	1.12
11-Oct	0.40	3.02	11-Oct	0.36	2.32	11-Oct	0.21	0.65	11-Oct	0.25	0.93	11-Oct	0.46	4.05	11-Oct	0.27	1.12
12-Oct	0.40	3.02	12-Oct	0.40	3.02	12-Oct	0.21	0.65	12-Oct	0.24	0.84	12-Oct	0.36	2.32	12-Oct	0.27	1.12
13-Oct	0.37	2.48	13-Oct	0.40	3.02	13-Oct	0.20	0.59	13-Oct	0.26	1.02	13-Oct	0.35	2.16	13-Oct	0.27	1.12
14-Oct	0.37	2.48	14-Oct	0.36	2.32	14-Oct	0.21	0.65	14-Oct	0.27	1.12	14-Oct	0.34	2.01	14-Oct	0.27	1.12
15-Oct	0.36	2.32	15-Oct	0.35	2.16	15-Oct	0.27	1.12	15-Oct	0.27	1.12	15-Oct	0.32	1.72	15-Oct	0.27	1.12
16-Oct	0.37	2.48	16-Oct	0.35	2.16	16-Oct	0.21	0.65	16-Oct	0.29	1.35	16-Oct	0.33	1.86	16-Oct	0.27	1.12
17-Oct	0.35	2.16	17-Oct	0.34	2.01	17-Oct	0.21	0.65	17-Oct	0.24	0.84	17-Oct	0.31	1.59	17-Oct	0.28	1.23
18-Oct	0.36	2.32	18-Oct	0.32	1.72	18-Oct	0.21	0.65	18-Oct	0.31	1.59	18-Oct	0.33	1.86	18-Oct	0.25	0.93
19-Oct	0.34	2.01	19-Oct	0.31	1.59	19-Oct	0.21	0.65	19-Oct	0.28	1.23	19-Oct	0.31	1.59	19-Oct	0.26	1.02
20-Oct	0.33	1.86	20-Oct	0.38	2.65	20-Oct	0.22	0.70	20-Oct	0.34	2.01	20-Oct	0.31	1.59	20-Oct	0.29	1.35
21-Oct	0.32	1.72	21-Oct	0.45	3.90	21-Oct	0.21	0.65	21-Oct	0.30	1.46	21-Oct	0.30	1.46	21-Oct	0.26	1.02
22-Oct	0.30	1.46	22-Oct	0.40	3.02	22-Oct	0.21	0.65	22-Oct	0.31	1.59	22-Oct	0.30	1.46	22-Oct	0.24	0.84
23-Oct	0.33	1.86	23-Oct	0.51	4.84	23-Oct	0.20	0.59	23-Oct	0.35	2.16	23-Oct	0.29	1.35	23-Oct	0.25	0.93
24-Oct	0.34	2.01	24-Oct	0.39	2.83	24-Oct	0.20	0.59	24-Oct	0.30	1.46	24-Oct	0.32	1.72	24-Oct	0.26	1.02
25-Oct	0.33	1.86	25-Oct	0.36	2.32	25-Oct	0.21	0.65	25-Oct	0.38	2.65	25-Oct	0.40	3.02	25-Oct	0.26	1.02
26-Oct	0.35	2.16	26-Oct	0.34	2.01	26-Oct	0.21	0.65	26-Oct	0.33	1.86	26-Oct	0.31	1.59	26-Oct	0.27	1.12
27-Oct	0.36	2.32	27-Oct	0.33	1.86	27-Oct	0.19	0.54	27-Oct	0.29	1.35	27-Oct	0.32	1.72	27-Oct	0.24	0.84
28-Oct	0.33	1.86	28-Oct	0.32	1.72	28-Oct	0.19	0.54	28-Oct	0.27	1.12	28-Oct	0.39	2.83	28-Oct	0.26	1.02
29-Oct	0.30	1.46	29-Oct	0.31	1.59	29-Oct	0.18	0.50	29-Oct	0.27	1.12	29-Oct	0.44	3.75	29-Oct	0.24	0.84
30-Oct	0.30	1.46	30-Oct	0.30	1.46	30-Oct	0.17	0.45	30-Oct	0.30	1.46	30-Oct	0.64	7.18	30-Oct	0.25	0.93
31-Oct	0.30	1.46	31-Oct	0.29	1.35	31-Oct	0.15	0.36	31-Oct	0.33	1.86	31-Oct	0.45	3.90	31-Oct	0.24	0.84
1-Nov	0.30	1.46	1-Nov	0.31	1.59	1-Nov	0.18	0.50	1-Nov	0.30	1.46	1-Nov	0.42	3.41	1-Nov	0.20	0.59
2-Nov	0.29	1.35	2-Nov	0.30	1.46	2-Nov	0.19	0.54	2-Nov	0.31	1.59	2-Nov	0.42	3.41	2-Nov	0.25	0.93
3-Nov	0.30	1.46	3-Nov	0.28	1.23	3-Nov	0.20	0.59	3-Nov	0.37	2.48	3-Nov	0.39	2.83	3-Nov	0.26	1.02
4-Nov	0.33	1.86</															

Daily Mean Water Level and Flow at IIIA01 on Kibos River (unit: H=m, Q=m³/s) * * * denotes estimated value by interpolation

1974	H	Q	1975	H	Q	1976	H	Q	1977	H	Q	1978	H	Q	1979	H	Q
5-Nov	0.32	1.72	5-Nov	0.29	1.35	5-Nov	0.20	0.59	5-Nov	0.39	2.83	5-Nov	0.42	3.41	5-Nov	0.29	1.35
6-Nov	0.30	1.46	6-Nov	0.29	1.35	6-Nov	0.20	0.59	6-Nov	0.35	2.16	6-Nov	0.34	2.01	6-Nov	0.26	1.02
7-Nov	0.29	1.35	7-Nov	0.33	1.86	7-Nov	0.19	0.54	7-Nov	0.38	2.65	7-Nov	0.35	2.16	7-Nov	0.32	1.72
8-Nov	0.30	1.46	8-Nov	0.28	1.23	8-Nov	0.20	0.59	8-Nov	0.43	3.62	8-Nov	0.35	2.16	8-Nov	0.34	2.01
9-Nov	0.29	1.35	9-Nov	0.28	1.23	9-Nov	0.19	0.54	9-Nov	0.37	2.48	9-Nov	0.35	2.16	9-Nov	0.45	3.90
10-Nov	0.29	1.35	10-Nov	0.28	1.23	10-Nov	0.19	0.54	10-Nov	0.35	2.16	10-Nov	0.34	2.01	10-Nov	0.34	2.01
11-Nov	0.27	1.12	11-Nov	0.28	1.23	11-Nov	0.18	0.50	11-Nov	0.35	2.16	11-Nov	0.33	1.86	11-Nov	0.29	1.35
12-Nov	0.27	1.12	12-Nov	0.27	1.12	12-Nov	0.18	0.50	12-Nov	0.34	2.01	12-Nov	0.33	1.86	12-Nov	0.28	1.23
13-Nov	0.26	1.02	13-Nov	0.27	1.12	13-Nov	0.18	0.50	13-Nov	0.34	2.01	13-Nov	0.34	2.01	13-Nov	0.27	1.12
14-Nov	0.26	1.02	14-Nov	0.27	1.12	14-Nov	0.17	0.45	14-Nov	0.36	2.32	14-Nov	0.39	2.83	14-Nov	0.24	0.84
15-Nov	0.25	0.93	15-Nov	0.27	1.12	15-Nov	0.17	0.45	15-Nov	0.44	3.75	15-Nov	0.34	2.01	15-Nov	0.24	0.84
16-Nov	0.28	1.23	16-Nov	0.27	1.12	16-Nov	0.20	0.59	16-Nov	0.60	6.42	16-Nov	0.34	2.01	16-Nov	0.24	0.84
17-Nov	0.28	1.23	17-Nov	0.27	1.12	17-Nov	0.21	0.65	17-Nov	0.51	4.84	17-Nov	0.32	1.72	17-Nov	0.24	0.84
18-Nov	0.28	1.23	18-Nov	0.26	1.02	18-Nov	0.18	0.50	18-Nov	0.45	3.90	18-Nov	0.33	1.86	18-Nov	0.24	0.84
19-Nov	0.27	1.12	19-Nov	0.26	1.02	19-Nov	0.18	0.50	19-Nov	0.63	6.99	19-Nov	0.41	3.21	19-Nov	0.24	0.84
20-Nov	0.26	1.02	20-Nov	0.25	0.93	20-Nov	0.23	0.76	20-Nov	0.62	6.80	20-Nov	0.36	2.32	20-Nov	0.26	1.02
21-Nov	0.24	0.84	21-Nov	0.27	1.12	21-Nov	0.21	0.65	21-Nov	0.61	6.61	21-Nov	0.35	2.16	21-Nov	0.25	0.93
22-Nov	0.24	0.84	22-Nov	0.26	1.02	22-Nov	0.29	1.35	22-Nov	0.55	5.52	22-Nov	0.34	2.01	22-Nov	0.25	0.93
23-Nov	0.24	0.84	23-Nov	0.25	0.93	23-Nov	0.25	0.93	23-Nov	0.64	7.18	23-Nov	0.38	2.65	23-Nov	0.25	0.93
24-Nov	0.31	1.59	24-Nov	0.25	0.93	24-Nov	0.21	0.65	24-Nov	0.98	15.05	24-Nov	0.35	2.16	24-Nov	0.25	0.93
25-Nov	0.32	1.72	25-Nov	0.24	0.84	25-Nov	0.26	1.02	25-Nov	0.79	10.35	25-Nov	0.31	1.59	25-Nov	0.27	1.12
26-Nov	0.30	1.46	26-Nov	0.23	0.76	26-Nov	0.21	0.65	26-Nov	0.82	11.05	26-Nov	0.30	1.46	26-Nov	0.24	0.84
27-Nov	0.28	1.23	27-Nov	0.23	0.76	27-Nov	0.21	0.65	27-Nov	0.75	9.46	27-Nov	0.29	1.35	27-Nov	0.24	0.84
28-Nov	0.24	0.84	28-Nov	0.24	0.84	28-Nov	0.21	0.65	28-Nov	0.67	7.78	28-Nov	0.29	1.35	28-Nov	0.23	0.76
29-Nov	0.24	0.84	29-Nov	0.23	0.76	29-Nov	0.24	0.84	29-Nov	0.58	6.05	29-Nov	0.29	1.35	29-Nov	0.22	0.70
30-Nov	0.23	0.76	30-Nov	0.21	0.65	30-Nov	0.26	1.02	30-Nov	0.54	5.35	30-Nov	0.27	1.12	30-Nov	0.20	0.59
1-Dec	0.24	0.84	1-Dec	0.21	0.65	1-Dec	0.28	1.23	1-Dec	0.51	4.84	1-Dec	0.28	1.23	1-Dec	0.28	1.23
2-Dec	0.24	0.84	2-Dec	0.30	1.46	2-Dec	0.30	1.46	2-Dec	0.48	4.36	2-Dec	0.27	1.12	2-Dec	0.45	3.90
3-Dec	0.22	0.70	3-Dec	0.26	1.02	3-Dec	0.26	1.02	3-Dec	0.46	4.05	3-Dec	0.27	1.12	3-Dec	0.34	2.01
4-Dec	0.21	0.65	4-Dec	0.30	1.46	4-Dec	0.22	0.70	4-Dec	0.44	3.75	4-Dec	0.27	1.12	4-Dec	0.33	1.86
5-Dec	0.22	0.70	5-Dec	0.28	1.23	5-Dec	0.21	0.65	5-Dec	0.43	3.62	5-Dec	0.27	1.12	5-Dec	0.28	1.23
6-Dec	0.24	0.84	6-Dec	0.27	1.12	6-Dec	0.20	0.59	6-Dec	0.41	3.21	6-Dec	0.27	1.12	6-Dec	0.26	1.02
7-Dec	0.23	0.76	7-Dec	0.24	0.84	7-Dec	0.19	0.54	7-Dec	0.39	2.83	7-Dec	0.26	1.02	7-Dec	0.24	0.84
8-Dec	0.22	0.70	8-Dec	0.27	1.12	8-Dec	0.18	0.50	8-Dec	0.39	2.83	8-Dec	0.26	1.02	8-Dec	0.24	0.84
9-Dec	0.22	0.70	9-Dec	0.27	1.12	9-Dec	0.18	0.50	9-Dec	0.40	3.02	9-Dec	0.26	1.02	9-Dec	0.23	0.76
10-Dec	0.33	1.86	10-Dec	0.25	0.93	10-Dec	0.18	0.50	10-Dec	0.40	3.02	10-Dec	0.25	0.93	10-Dec	0.24	0.84
11-Dec	0.31	1.59	11-Dec	0.24	0.84	11-Dec	0.18	0.50	11-Dec	0.38	2.65	11-Dec	0.24	0.84	11-Dec	0.24	0.84
12-Dec	0.24	0.84	12-Dec	0.24	0.84	12-Dec	0.18	0.50	12-Dec	0.39	2.83	12-Dec	0.35	2.16	12-Dec	0.24	0.84
13-Dec	0.32	1.72	13-Dec	0.24	0.84	13-Dec	0.18	0.50	13-Dec	0.38	2.65	13-Dec	0.36	2.32	13-Dec	0.23	0.76
14-Dec	0.24	0.84	14-Dec	0.23	0.76	14-Dec	0.16	0.40	14-Dec	0.37	2.48	14-Dec	0.33	1.86	14-Dec	0.23	0.76
15-Dec	0.24	0.84	15-Dec	0.22	0.70	15-Dec	0.16	0.40	15-Dec	0.36	2.32	15-Dec	0.42	3.41	15-Dec	0.21	0.65
16-Dec	0.24	0.84	16-Dec	0.23	0.76	16-Dec	0.15	0.36	16-Dec	0.39	2.83	16-Dec	0.32	1.72	16-Dec	0.22	0.70
17-Dec	0.23	0.76	17-Dec	0.23	0.76	17-Dec	0.15	0.36	17-Dec	0.34	2.01	17-Dec	0.37	2.48	17-Dec	0.22	0.70
18-Dec	0.22	0.70	18-Dec	0.21	0.65	18-Dec	0.15	0.36	18-Dec	0.34	2.01	18-Dec	0.42	3.41	18-Dec	0.26	1.02
19-Dec	0.22	0.70	19-Dec	0.21	0.65	19-Dec	0.14	0.32	19-Dec	0.33	1.86	19-Dec	0.39	2.83	19-Dec	0.22	0.70
20-Dec	0.22	0.70	20-Dec	0.21	0.65	20-Dec	0.16	0.40	20-Dec	0.32	1.72	20-Dec	0.34	2.01	20-Dec	0.23	0.76
21-Dec	0.21	0.65	21-Dec	0.21	0.65	21-Dec	0.16	0.40	21-Dec	0.32	1.72	21-Dec	0.37	2.48	21-Dec	0.21	0.65
22-Dec	0.21	0.65	22-Dec	0.20	0.59	22-Dec	0.20	0.59	22-Dec	0.37	2.48	22-Dec	0.35	2.16	22-Dec	0.21	0.65
23-Dec	0.20	0.59	23-Dec	0.19	0.54	23-Dec	0.20	0.59	23-Dec	0.35	2.16	23-Dec	0.53	5.18	23-Dec	0.21	0.65
24-Dec	0.19	0.54	24-Dec	0.19	0.54	24-Dec	0.17	0.45	24-Dec	0.37	2.48	24-Dec	0.46	4.05	24-Dec	0.20	0.59
25-Dec	0.21	0.65	25-Dec	0.20	0.59	25-Dec	0.16	0.40	25-Dec	0.36	2.32	25-Dec	0.45	3.90	25-Dec	0.20	0.59
26-Dec	0.20	0.59	26-Dec	0.19	0.54	26-Dec	0.16	0.40	26-Dec	0.34	2.01	26-Dec	0.46	4.05	26-Dec	0.21	0.65
27-Dec	0.20	0.59	27-Dec	0.19	0.54	27-Dec	0.15	0.36	27-Dec	0.33	1.86	27-Dec	0.45	3.90	27-Dec	0.22	0.70
28-Dec	0.19	0.54	28-Dec	0.18	0.50	28-Dec	0.16	0.40	28-Dec	0.31	1.59	28-Dec	0.49	4.52	28-Dec	0.25	0.93
29-Dec	0.21	0.65	29-Dec	0.19	0.54	29-Dec	0.14	0.32	29-Dec	0.29	1.35	29-Dec	0.42	3.41	29-Dec	0.26	1.02
30-Dec	0.21	0.65	30-Dec	0.18	0.50	30-Dec	0.15	0.36	30-Dec	0.29	1.35	30-Dec	0.38	2.65	30-Dec	0.26	1.02
31-Dec	0.20	0.59	31-Dec	0.19	0.54	31-Dec	0.15	0.36	31-Dec	0.30	1.46	31-Dec	0.37	2.48	31-Dec	0.24	0.84

Daily Mean Water Level and Flow at H1A04 on Kibos River (unit: H=m, Q=m³/s) * * * denotes estimated value by interpolation

1980	H	Q	1981	H	Q	1982	H	Q	1983	H	Q	1987	H	Q	1988	H	Q
1-Jan	0.23	0.76	1-Jan	0.21	0.65	1-Jan	0.25	0.93	1-Jan	0.31	1.59	1-Jan	0.19	0.54	1-Jan	0.25	0.93
2-Jan	0.24	0.84	2-Jan	0.21	0.65	2-Jan	0.26	1.02	2-Jan	0.31	1.59	2-Jan	0.19	0.54	2-Jan	0.38	2.65
3-Jan	0.20	0.59	3-Jan	0.26	1.02	3-Jan	0.25	0.93	3-Jan	0.29	1.35	3-Jan	0.21	0.65	3-Jan	0.27	1.12
4-Jan	0.19	0.54	4-Jan	0.23	0.76	4-Jan	0.24	0.84	4-Jan	0.29	1.35	4-Jan	0.19	0.54	4-Jan	0.24	0.84
5-Jan	0.18	0.50	5-Jan	0.23	0.76	5-Jan	0.25	0.93	5-Jan	0.28	1.23	5-Jan	0.19	0.54	5-Jan	0.25	0.93
6-Jan	0.18	0.50	6-Jan	0.23	0.76	6-Jan	0.38	2.65	6-Jan	0.28	1.23	6-Jan	0.19	0.54	6-Jan	0.26	1.02
7-Jan	0.19	0.54	7-Jan	0.24	0.84	7-Jan	0.28	1.23	7-Jan	0.36	2.32	7-Jan	0.23	0.76	7-Jan	0.27	1.12
8-Jan	0.18	0.50	8-Jan	0.21	0.65	8-Jan	0.25	0.93	8-Jan	0.33	1.86	8-Jan	0.25	0.93	8-Jan	0.30	1.46
9-Jan	0.18	0.50	9-Jan	0.20	0.59	9-Jan	0.24	0.84	9-Jan	0.30	1.46	9-Jan	0.25	0.93	9-Jan	0.30	1.46
10-Jan	0.18	0.50	10-Jan	0.19	0.54	10-Jan	0.24	0.84	10-Jan	0.31	1.59	10-Jan	0.31	1.59	10-Jan	0.29	1.35
11-Jan	0.18	0.50	11-Jan	0.19	0.54	11-Jan	0.24	0.84	11-Jan	0.30	1.46	11-Jan	0.28	1.23	11-Jan	0.29	1.35
12-Jan	0.18	0.50	12-Jan	0.19	0.54	12-Jan	0.40	3.02	12-Jan	0.28	1.23	12-Jan	0.33	1.86	12-Jan	0.26	1.02
13-Jan	0.18	0.50	13-Jan	0.19	0.54	13-Jan	0.29	1.35	13-Jan	0.26	1.02	13-Jan	0.33	1.86	13-Jan	0.26	1.02
14-Jan	0.18	0.50	14-Jan	0.20	0.59	14-Jan	0.25	0.93	14-Jan	0.21	0.65	14-Jan	0.28	1.23	14-Jan	0.25	0.93
15-Jan	0.22	0.70	15-Jan	0.18	0.50	15-Jan	0.35	2.16	15-Jan	0.19	0.54	15-Jan	0.34	2.01	15-Jan	0.25	0.93
16-Jan	0.21	0.65	16-Jan	0.19	0.54	16-Jan	0.34	2.01	16-Jan	0.19	0.54	16-Jan	0.30	1.46	16-Jan	0.27	1.12
17-Jan	0.19	0.54	17-Jan	0.20	0.59	17-Jan	0.45	3.90	17-Jan	0.17	0.45	17-Jan	0.28	1.23	17-Jan	0.27	1.12
18-Jan	0.21	0.65	18-Jan	0.18	0.50	18-Jan	0.30	1.46	18-Jan	0.28	1.23	18-Jan	0.27	1.12	18-Jan	0.32	1.72
19-Jan	0.23	0.76	19-Jan	0.18	0.50	19-Jan	0.30	1.46	19-Jan	0.28	1.23	19-Jan	0.25	0.93	19-Jan	0.33	1.86
20-Jan	0.21	0.65	20-Jan	0.18	0.50	20-Jan	0.28	1.23	20-Jan	0.31	1.59	20-Jan	0.24	0.84	20-Jan	0.31	1.59
21-Jan	0.20	0.59	21-Jan	0.16	0.40	21-Jan	0.27	1.12	21-Jan	0.43	3.62	21-Jan	0.25	0.93	21-Jan	0.30	1.46
22-Jan	0.21	0.65	22-Jan	0.17	0.45	22-Jan	0.34	2.01	22-Jan	0.30	1.46	22-Jan	0.25	0.93	22-Jan	0.30	1.46
23-Jan	0.22	0.70	23-Jan	0.17	0.45	23-Jan	0.29	1.35	23-Jan	0.34	2.01	23-Jan	0.24	0.84	23-Jan	0.29	1.35
24-Jan	0.24	0.84	24-Jan	0.19	0.54	24-Jan	0.27	1.12	24-Jan	0.44	3.75	24-Jan	0.28	1.23	24-Jan	0.36	2.32
25-Jan	0.26	1.02	25-Jan	0.18	0.50	25-Jan	0.25	0.93	25-Jan	0.34	2.01	25-Jan	0.26	1.02	25-Jan	0.34	2.01
26-Jan	0.27	1.12	26-Jan	0.18	0.50	26-Jan	0.25	0.93	26-Jan	0.30	1.46	26-Jan	0.25	0.93	26-Jan	0.32	1.72
27-Jan	0.27	1.12	27-Jan	0.21	0.65	27-Jan	0.25	0.93	27-Jan	0.30	1.46	27-Jan	0.25	0.93	27-Jan	0.27	1.12
28-Jan	0.27	1.12	28-Jan	0.24	0.84	28-Jan	0.25	0.93	28-Jan	0.29	1.35	28-Jan	0.24	0.84	28-Jan	0.27	1.12
29-Jan	0.26	1.02	29-Jan	0.23	0.76	29-Jan	0.24	0.84	29-Jan	0.29	1.35	29-Jan	0.24	0.84	29-Jan	0.26	1.02
30-Jan	0.41	3.21	30-Jan	0.23	0.76	30-Jan	0.23	0.76	30-Jan	0.28	1.23	30-Jan	0.25	0.93	30-Jan	0.26	1.02
31-Jan	0.30	1.46	31-Jan	0.28	1.23	31-Jan	0.24	0.84	31-Jan	0.22	0.70	31-Jan	0.25	0.93	31-Jan	0.26	1.02
1-Feb	0.32	1.72	1-Feb	0.25	0.93	1-Feb	0.24	0.84	1-Feb	0.19	0.54	1-Feb	0.25	0.93	1-Feb	0.26	1.02
2-Feb	0.25	0.93	2-Feb	0.26	1.02	2-Feb	0.24	0.84	2-Feb	0.20	0.59	2-Feb	0.24	0.84	2-Feb	0.30	1.46
3-Feb	0.21	0.65	3-Feb	0.24	0.84	3-Feb	0.25	0.93	3-Feb	0.16	0.40	3-Feb	0.24	0.84	3-Feb	0.28	1.23
4-Feb	0.22	0.70	4-Feb	0.24	0.84	4-Feb	0.24	0.84	4-Feb	0.31	1.59	4-Feb	0.22	0.70	4-Feb	0.27	1.12
5-Feb	0.21	0.65	5-Feb	0.24	0.84	5-Feb	0.24	0.84	5-Feb	0.28	1.23	5-Feb	0.22	0.70	5-Feb	0.25	0.93
6-Feb	0.21	0.65	6-Feb	0.22	0.70	6-Feb	0.23	0.76	6-Feb	0.26	1.02	6-Feb	0.22	0.70	6-Feb	0.25	0.93
7-Feb	0.21	0.65	7-Feb	0.22	0.70	7-Feb	0.25	0.93	7-Feb	0.25	0.93	7-Feb	0.22	0.70	7-Feb	0.24	0.84
8-Feb	0.22	0.70	8-Feb	0.22	0.70	8-Feb	0.24	0.84	8-Feb	0.22	0.70	8-Feb	0.22	0.70	8-Feb	0.24	0.84
9-Feb	0.23	0.76	9-Feb	0.22	0.70	9-Feb	0.24	0.84	9-Feb	0.20	0.59	9-Feb	0.22	0.70	9-Feb	0.24	0.84
10-Feb	0.24	0.84	10-Feb	0.22	0.70	10-Feb	0.25	0.93	10-Feb	0.21	0.65	10-Feb	0.24	0.84	10-Feb	0.25	0.93
11-Feb	0.24	0.84	11-Feb	0.21	0.65	11-Feb	0.25	0.93	11-Feb	0.20	0.59	11-Feb	0.28	1.23	11-Feb	0.25	0.93
12-Feb	0.24	0.84	12-Feb	0.16	0.40	12-Feb	0.25	0.93	12-Feb	0.20	0.59	12-Feb	0.34	2.01	12-Feb	0.26	1.02
13-Feb	0.24	0.84	13-Feb	0.16	0.40	13-Feb	0.26	1.02	13-Feb	0.20	0.59	13-Feb	0.29	1.35	13-Feb	0.27	1.12
14-Feb	0.24	0.84	14-Feb	0.17	0.45	14-Feb	0.24	0.84	14-Feb	0.20	0.59	14-Feb	0.26	1.02	14-Feb	0.34	2.01
15-Feb	0.26	1.02	15-Feb	0.17	0.45	15-Feb	0.37	2.48	15-Feb	0.20	0.59	15-Feb	0.25	0.93	15-Feb	0.27	1.12
16-Feb	0.25	0.93	16-Feb	0.20	0.59	16-Feb	0.36	2.32	16-Feb	0.22	0.70	16-Feb	0.24	0.84	16-Feb	0.28	1.23
17-Feb	0.24	0.84	17-Feb	0.25	0.93	17-Feb	0.33	1.86	17-Feb	0.24	0.84	17-Feb	0.23	0.76	17-Feb	0.27	1.12
18-Feb	0.24	0.84	18-Feb	0.26	1.02	18-Feb	0.27	1.12	18-Feb	0.23	0.76	18-Feb	0.23	0.76	18-Feb	0.27	1.12
19-Feb	0.23	0.76	19-Feb	0.25	0.93	19-Feb	0.27	1.12	19-Feb	0.36	2.32	19-Feb	0.32	1.72	19-Feb	0.24	0.84
20-Feb	0.23	0.76	20-Feb	0.29	1.35	20-Feb	0.27	1.12	20-Feb	0.25	0.93	20-Feb	0.34	2.01	20-Feb	0.24	0.84
21-Feb	0.23	0.76	21-Feb	0.25	0.93	21-Feb	0.25	0.93	21-Feb	0.25	0.93	21-Feb	0.33	1.86	21-Feb	0.23	0.76
22-Feb	0.23	0.76	22-Feb	0.21	0.65	22-Feb	0.25	0.93	22-Feb	0.25	0.93	22-Feb	0.31	1.59	22-Feb	0.23	0.76
23-Feb	0.22	0.70	23-Feb	0.19	0.54	23-Feb	0.24	0.84	23-Feb	0.24	0.84	23-Feb	0.40	3.02	23-Feb	0.23	0.76
24-Feb	0.21	0.65	24-Feb	0.18	0.50	24-Feb	0.24	0.84	24-Feb	0.23	0.76	24-Feb	0.29	1.35	24-Feb	0.23	0.76
25-Feb	0.21	0.65	25-Feb	0.17	0.45	25-Feb	0.24	0.84	25-Feb	0.23	0.76	25-Feb	0.32	1.72	25-Feb	0.37	2.48
26-Feb	0.21	0.65	26-Feb	0.24	0.84	26-Feb	0.39	2.83	26-Feb	0.23	0.76	26-Feb	0.28	1.23	26-Feb	0.27	1.12
27-Feb	0.21	0.65	27-Feb	0.24	0.84	27-Feb	0.24	0.84	27-Feb	0.22	0.70	27-Feb	0.27	1.12	27-Feb	0.26	1.02
28-Feb	0.22	0.70	28-Feb	0.23	0.76	28-Feb	0.24	0.84	28-Feb	0.23	0.76	28-Feb	0.25	0.93	28-Feb	0.24	0.84
1-Mar	0.21	0.65	1-Mar	0.25	0.93	1-Mar	0.23	0.76	1-Mar	0.23	0.76	1-Mar	0.25	0.93	1-Mar	0.22	0.70
2-Mar	0.21	0.65	2-Mar	0.23	0.76	2-Mar	0.24	0.84	2-Mar	0.19	0.54	2-Mar	0.25	0.93	2-Mar	0.23	0.76
3-Mar	0.23	0.76	3-Mar	0.23	0.76	3-Mar	0.24	0.84	3-Mar	0.16	0.40	3-Mar	0.27	1.12	3-Mar	0.22	0.70
4-Mar	0.23	0.76	4-Mar	0.22	0.70	4-Mar	0.24	0.84	4-Mar	0.16	0.40	4-Mar	0.25	0.93	4-Mar	0.26	1.02
5-Mar	0.24	0.84	5-Mar	0.23	0.76	5-Mar	0.23	0.76	5-Mar	0.18	0.50	5-Mar	0.25	0.93	5-Mar	0.26	1.02
6-Mar	0.22	0.70	6-Mar	0.22	0.70	6-Mar	0.23	0.76	6-Mar	0.16	0.40	6-Mar	0.25	0.93	6-Mar	0.37	2.48
7-Mar	0.18	0.50	7-Mar	0.21	0.65	7-Mar	0.31	1.59	7-Mar	0.16	0.40	7-Mar	0.25	0.93	7-Mar	0.27	1.12
8-Mar	0.22	0.70	8-Mar	0.23	0.76	8-Mar	0.40	3.02	8-Mar	0.16	0.40	8-Mar	0.26	1.02	8-Mar	0.29	1.35
9-Mar	0.25	0.93	9-Mar	0.22	0.70	9-Mar	0.24	0.84	9-Mar	0.16	0.40	9-Mar	0.35	2.16	9-Mar	0.27	1.12
10-Mar	0.22	0.70	10-Mar	0.25	0.93	10-Mar	0.25	0.93	10-Mar	0.16	0.40	10-Mar	0.30	1.46	10-Mar	0.27	1.12
11-Mar	0.18	0.50	11-Mar	0.24	0.84	11-Mar	0.24	0.84	11-Mar	0.16	0.40	11-Mar	0.26	1.02	11-Mar	0.27	1.12
12-Mar	0.23	0.76	12-Mar	0.24	0.84	12-Mar	0.22	0.70	12-Mar	0.19	0.54	12-Mar	0.25	0.93	12-Mar	0.25	0.93
13-Mar	0.19	0.54	13-Mar	0.25	0.93	13-Mar	0.21	0.65	13-Mar	0.23	0.76	13-Mar	0.20	0.59	13-Mar	0.24	0.84
14-Mar	0.20	0.59	14-Mar	0.24	0.84	14-Mar	0.23	0.76	14-Mar	0.25	0.93	14-Mar	0.23	0.76	14-Mar	0.24	0.84
15-Mar	0.18	0.50	15-Mar	0.26	1.02	15-Mar	0.23	0.76	15-Mar	0.16	0.40	15-Mar	0.28	1.23	15-Mar	0.30	1.46
16-Mar	0.18	0.50	16-Mar	0.25	0.93	16-Mar	0.24	0.84	16-Mar	0.35	2.16	16-Mar	0.45	3.90	16-Mar	0.26	1.02
17-Mar	0.16	0.40	17-Mar	0.25	0.93	17-Mar	0.23	0.76	17-Mar	0.28	1.23	17-Mar	0.32	1.72	17-Mar	0.26	1.02
18-Mar	0.17	0.45	18-Mar	0.19	0.54	18-Mar											

Daily Mean Water Level and Flow at HHA04 on Kibos River (unit: H-m, Q-m³/s) * * * denotes estimated value by interpolation

1980	H	Q	1981	H	Q	1982	H	Q	1983	H	Q	1987	H	Q	1988	H	Q
19-Mar	0.20	0.59	19-Mar	0.28	1.23	19-Mar	0.23	0.76	19-Mar	0.28	1.23	19-Mar	0.36	2.32	19-Mar	0.23	0.76
20-Mar	0.21	0.65	20-Mar	0.40	3.02	20-Mar	0.30	1.46	20-Mar	0.27	1.12	20-Mar	0.29	1.35	20-Mar	0.20	0.59
21-Mar	0.21	0.65	21-Mar	0.36	2.32	21-Mar	0.32	1.72	21-Mar	0.26	1.02	21-Mar	0.28	1.23	21-Mar	0.31	1.59
22-Mar	0.20	0.59	22-Mar	0.33	1.86	22-Mar	0.35	2.16	22-Mar	0.22	0.70	22-Mar	0.25	0.93	22-Mar	0.30	1.46
23-Mar	0.20	0.59	23-Mar	0.49	4.52	23-Mar	0.28	1.23	23-Mar	0.25	0.93	23-Mar	0.22	0.70	23-Mar	0.24	0.84
24-Mar	0.21	0.65	24-Mar	0.47	4.20	24-Mar	0.27	1.12	24-Mar	0.27	1.12	24-Mar	0.22	0.70	24-Mar	0.29	1.35
25-Mar	0.20	0.59	25-Mar	0.35	2.16	25-Mar	0.40	3.02	25-Mar	0.25	0.93	25-Mar	0.22	0.70	25-Mar	0.31	1.59
26-Mar	0.20	0.59	26-Mar	0.30	1.46	26-Mar	0.24	0.84	26-Mar	0.27	1.12	26-Mar	0.21	0.65	26-Mar	0.27	1.12
27-Mar	0.19	0.54	27-Mar	0.32	1.72	27-Mar	0.24	0.84	27-Mar	0.27	1.12	27-Mar	0.20	0.59	27-Mar	0.30	1.46
28-Mar	0.20	0.59	28-Mar	0.50	4.68	28-Mar	0.24	0.84	28-Mar	0.27	1.12	28-Mar	0.19	0.54	28-Mar	0.29	1.35
29-Mar	0.21	0.65	29-Mar	0.42	3.41	29-Mar	0.26	1.02	29-Mar	0.26	1.02	29-Mar	0.18	0.50	29-Mar	0.24	0.84
30-Mar	0.28	1.23	30-Mar	0.34	2.01	30-Mar	0.27	1.12	30-Mar	0.24	0.84	30-Mar	0.19	0.54	30-Mar	0.23	0.76
31-Mar	0.26	1.02	31-Mar	0.34	2.01	31-Mar	0.31	1.59	31-Mar	0.24	0.84	31-Mar	0.23	0.76	31-Mar	0.21	0.65
1-Apr	0.22	0.70	1-Apr	0.31	1.59	1-Apr	0.29	1.35	1-Apr	0.24	0.84	1-Apr	0.19	0.54	1-Apr	0.20	0.59
2-Apr	0.21	0.65	2-Apr	0.37	2.48	2-Apr	0.28	1.23	2-Apr	0.22	0.70	2-Apr	0.18	0.50	2-Apr	0.21	0.65
3-Apr	0.21	0.65	3-Apr	0.36	2.32	3-Apr	0.26	1.02	3-Apr	0.22	0.70	3-Apr	0.16	0.40	3-Apr	0.19	0.54
4-Apr	0.20	0.59	4-Apr	0.41	3.21	4-Apr	0.26	1.02	4-Apr	0.22	0.70	4-Apr	0.19	0.54	4-Apr	0.18	0.50
5-Apr	0.19	0.54	5-Apr	0.47	4.20	5-Apr	0.26	1.02	5-Apr	0.22	0.70	5-Apr	0.18	0.50	5-Apr	0.29	1.35
6-Apr	0.18	0.50	6-Apr	0.55	5.52	6-Apr	0.26	1.02	6-Apr	0.21	0.65	6-Apr	0.20	0.59	6-Apr	0.29	1.35
7-Apr	0.19	0.54	7-Apr	0.53	5.18	7-Apr	0.25	0.93	7-Apr	0.21	0.65	7-Apr	0.24	0.84	7-Apr	0.28	1.23
8-Apr	0.21	0.65	8-Apr	0.49	4.52	8-Apr	0.34	2.01	8-Apr	0.23	0.76	8-Apr	0.29	1.35	8-Apr	0.25	0.93
9-Apr	0.34	2.01	9-Apr	0.50	4.68	9-Apr	0.27	1.12	9-Apr	0.23	0.76	9-Apr	0.25	0.93	9-Apr	0.35	2.16
10-Apr	0.26	1.02	10-Apr	0.42	3.41	10-Apr	0.24	0.84	10-Apr	0.23	0.76	10-Apr	0.36	2.32	10-Apr	0.43	3.62
11-Apr	0.22	0.70	11-Apr	0.42	3.41	11-Apr	0.24	0.84	11-Apr	0.21	0.65	11-Apr	0.26	1.02	11-Apr	0.50	4.68
12-Apr	0.26	1.02	12-Apr	0.47	4.20	12-Apr	0.24	0.84	12-Apr	0.40	3.02	12-Apr	0.25	0.93	12-Apr	0.38	2.65
13-Apr	0.32	1.72	13-Apr	0.59	6.24	13-Apr	0.27	1.12	13-Apr	0.39	2.83	13-Apr	0.24	0.84	13-Apr	0.43	3.62
14-Apr	0.42	3.41	14-Apr	0.61	6.61	14-Apr	0.26	1.02	14-Apr	0.31	1.59	14-Apr	0.26	1.02	14-Apr	0.40	3.02
15-Apr	0.45	3.90	15-Apr	0.52	5.01	15-Apr	0.26	1.02	15-Apr	0.54	5.35	15-Apr	0.23	0.76	15-Apr	0.37	2.48
16-Apr	0.34	2.01	16-Apr	0.51	4.84	16-Apr	0.28	1.23	16-Apr	0.51	4.84	16-Apr	0.21	0.65	16-Apr	0.34	2.01
17-Apr	0.30	1.46	17-Apr	0.49	4.52	17-Apr	0.39	2.83	17-Apr	0.45	3.90	17-Apr	0.20	0.59	17-Apr	0.32	1.72
18-Apr	0.27	1.12	18-Apr	0.47	4.20	18-Apr	0.42	3.41	18-Apr	0.45	3.90	18-Apr	0.19	0.54	18-Apr	0.36	2.32
19-Apr	0.27	1.12	19-Apr	0.47	4.20	19-Apr	0.78	10.13	19-Apr	0.54	5.35	19-Apr	0.22	0.70	19-Apr	0.34	2.01
20-Apr	0.27	1.12	20-Apr	0.50	4.68	20-Apr	0.58	6.05	20-Apr	0.54	5.35	20-Apr	0.22	0.70	20-Apr	0.30	1.46
21-Apr	0.27	1.12	21-Apr	0.49	4.52	21-Apr	0.49	4.52	21-Apr	0.48	4.36	21-Apr	0.22	0.70	21-Apr	0.40	3.02
22-Apr	0.26	1.02	22-Apr	0.48	4.36	22-Apr	0.46	4.05	22-Apr	0.42	3.41	22-Apr	0.30	1.46	22-Apr	0.36	2.32
23-Apr	0.24	0.84	23-Apr	0.43	3.62	23-Apr	0.34	2.01	23-Apr	0.36	2.32	23-Apr	0.22	0.70	23-Apr	1.37	26.93
24-Apr	0.27	1.12	24-Apr	0.43	3.62	24-Apr	0.31	1.59	24-Apr	0.31	1.59	24-Apr	0.21	0.65	24-Apr	1.10	18.39
25-Apr	0.26	1.02	25-Apr	0.40	3.02	25-Apr	0.32	1.72	25-Apr	0.31	1.59	25-Apr	0.22	0.70	25-Apr	0.76	9.68
26-Apr	0.22	0.70	26-Apr	0.39	2.83	26-Apr	0.52	5.01	26-Apr	0.30	1.46	26-Apr	0.19	0.54	26-Apr	0.62	6.80
27-Apr	0.21	0.65	27-Apr	0.37	2.48	27-Apr	0.48	4.36	27-Apr	0.77	9.90	27-Apr	0.30	1.46	27-Apr	0.75	9.46
28-Apr	0.20	0.59	28-Apr	0.39	2.83	28-Apr	0.37	2.48	28-Apr	0.49	4.52	28-Apr	0.21	0.65	28-Apr	0.61	6.61
29-Apr	0.19	0.54	29-Apr	0.35	2.16	29-Apr	0.33	1.86	29-Apr	0.73	9.03	29-Apr	0.22	0.70	29-Apr	0.62	6.80
30-Apr	0.19	0.54	30-Apr	0.34	2.01	30-Apr	0.39	2.83	30-Apr	0.69	8.19	30-Apr	0.22	0.70	30-Apr	0.56	5.70
1-May	0.22	0.70	1-May	0.49	4.52	1-May	0.30	1.46	1-May	0.62	6.80	1-May	0.29	1.35	1-May	0.56	5.70
2-May	0.20	0.59	2-May	0.44	3.75	2-May	0.27	1.12	2-May	0.58	6.05	2-May	0.25	0.93	2-May	0.52	5.01
3-May	0.22	0.70	3-May	0.34	2.01	3-May	0.28	1.23	3-May	0.47	4.20	3-May	0.28	1.23	3-May	0.52	5.01
4-May	0.23	0.76	4-May	0.32	1.72	4-May	0.28	1.23	4-May	0.40	3.02	4-May	0.22	0.70	4-May	0.51	4.84
5-May	0.21	0.65	5-May	0.34	2.01	5-May	0.27	1.12	5-May	0.39	2.83	5-May	0.22	0.70	5-May	0.64	7.18
6-May	0.21	0.65	6-May	0.31	1.59	6-May	0.29	1.35	6-May	0.42	3.41	6-May	0.22	0.70	6-May	0.49	4.52
7-May	0.58	6.05	7-May	0.31	1.59	7-May	0.43	3.62	7-May	0.45	3.90	7-May	0.29	1.35	7-May	0.59	6.24
8-May	0.36	2.32	8-May	0.49	4.52	8-May	0.50	4.68	8-May	0.41	3.21	8-May	0.29	1.35	8-May	0.66	7.58
9-May	0.29	1.35	9-May	0.47	4.20	9-May	0.44	3.75	9-May	0.40	3.02	9-May	0.25	0.93	9-May	0.59	6.24
10-May	0.30	1.46	10-May	0.58	6.05	10-May	0.45	3.90	10-May	0.43	3.62	10-May	0.25	0.93	10-May	0.48	4.36
11-May	0.30	1.46	11-May	0.44	3.75	11-May	0.45	3.90	11-May	0.37	2.48	11-May	0.35	2.16	11-May	0.45	3.90
12-May	0.30	1.46	12-May	0.42	3.41	12-May	0.39	2.83	12-May	0.39	2.83	12-May	0.34	2.01	12-May	0.44	3.75
13-May	0.32	1.72	13-May	0.40	3.02	13-May	0.36	2.32	13-May	0.33	1.86	13-May	0.32	1.72	13-May	0.39	2.83
14-May	0.30	1.46	14-May	0.47	4.20	14-May	0.36	2.32	14-May	0.31	1.59	14-May	0.29	1.35	14-May	0.38	2.65
15-May	0.32	1.72	15-May	0.52	5.01	15-May	0.45	3.90	15-May	0.30	1.46	15-May	0.27	1.12	15-May	0.38	2.65
16-May	0.47	4.20	16-May	0.49	4.52	16-May	0.49	4.52	16-May	0.30	1.46	16-May	0.30	1.46	16-May	0.37	2.48
17-May	0.49	4.52	17-May	0.42	3.41	17-May	0.55	5.52	17-May	0.30	1.46	17-May	0.51	4.84	17-May	0.47	4.20
18-May	0.42	3.41	18-May	0.42	3.41	18-May	0.49	4.52	18-May	0.36	2.32	18-May	0.46	4.05	18-May	0.47	4.20
19-May	0.43	3.62	19-May	0.41	3.21	19-May	0.51	4.84	19-May	0.34	2.01	19-May	0.42	3.41	19-May	0.42	3.41
20-May	0.40	3.02	20-May	0.41	3.21	20-May	0.46	4.05	20-May	0.35	2.16	20-May	0.46	4.05	20-May	0.44	3.75
21-May	0.35	2.16	21-May	0.38	2.65	21-May	0.42	3.41	21-May	0.49	4.52	21-May	0.33	1.86	21-May	0.44	3.75
22-May	0.54	5.35	22-May	0.37	2.48	22-May	0.41	3.21	22-May	0.48	4.36	22-May	0.45	3.90	22-May	0.45	3.90
23-May	0.48	4.36	23-May	0.35	2.16	23-May	0.43	3.62	23-May	0.32	1.72	23-May	0.63	6.99	23-May	0.42	3.41
24-May	0.44	3.75	24-May	0.36	2.32	24-May	0.34	2.01	24-May	0.66	7.58	24-May	0.52	5.01	24-May	0.41	3.21
25-May	0.72	8.81	25-May	0.51	4.84	25-May	0.46	4.05	25-May	0.54	5.35	25-May	0.45	3.90	25-May	0.40	3.02
26-May	0.69	8.19	26-May	0.40	3.02	26-May	0.36	2.32	26-May	0.39	2.83	26-May	0.51	4.84	26-May	0.38	2.65
27-May	0.54	5.35	27-May	0.37	2.48	27-May	0.34	2.01	27-May	0.40	3.02	27-May	0.45	3.90	27-May	0.40	3.02
28-May	0.54	5.35	28-May	0.35	2.16	28-May	0.34	2.01	28-May	0.37	2.48	28-May	0.43	3.62	28-May	0.37	2.48
29-May	0.52	5.01	29-May	0.34	2.01	29-May	0.47	4.20	29-May	0.31	1.59	29-May	0.46	4.05	29-May	0.34	2.01
30-May	0.63	6.99	30-May	0.33	1.86	30-May	0.36	2.32	30-May	0.30	1.46	30-May	0.45	3.90	30-May	0.34	2.01
31-May	0.56	5.70	31-May	0.30	1.46	31-May	0.45	3.90	31-May	0.30	1.46	31-May	0.42	3.41	31-May	0.33	1.86
1-Jun	0.57	5.87	1-Jun	0.33	1.86	1-Jun	0.43	3.62	1-Jun	0.29	1.35	1-Jun	0.40	3.02	1-Jun	0.34	2.01
2-Jun	0.57	5.87	2-Jun	0.32	1.72	2-Jun	0.36	2.32	2-Jun	0.29	1.35	2-Jun	0.45	3.90	2-Jun	0.34	2.01
3-Jun	0.49																

Daily Mean Water Level and Flow at IHA04 on Kibos River (unit: H-m, Q-m³/s) * * * denotes estimated value by interpolation

1980	H	Q	1981	H	Q	1982	H	Q	1983	H	Q	1987	H	Q	1988	H	Q
4-Jun	0.45	3.90	4-Jun	0.30	1.46	4-Jun	0.45	3.90	4-Jun	0.28	1.23	4-Jun	0.42	3.41	4-Jun	0.43	3.62
5-Jun	0.45	3.90	5-Jun	0.28	1.23	5-Jun	0.44	3.75	5-Jun	0.27	1.12	5-Jun	0.39	2.83	5-Jun	0.37	2.48
6-Jun	0.39	2.83	6-Jun	0.49	4.52	6-Jun	0.42	3.41	6-Jun	0.27	1.12	6-Jun	0.39	2.83	6-Jun	0.31	1.59
7-Jun	0.41	3.21	7-Jun	0.33	1.86	7-Jun	0.46	4.05	7-Jun	0.25	0.93	7-Jun	0.45	3.90	7-Jun	0.30	1.46
8-Jun	0.39	2.83	8-Jun	0.34	2.01	8-Jun	0.45	3.90	8-Jun	0.24	0.84	8-Jun	0.65	7.38	8-Jun	0.53	5.18
9-Jun	0.34	2.01	9-Jun	0.34	2.01	9-Jun	0.44	3.75	9-Jun	0.27	1.12	9-Jun	0.51	4.84	9-Jun	0.33	1.86
10-Jun	0.35	2.16	10-Jun	0.34	2.01	10-Jun	0.40	3.02	10-Jun	0.27	1.12	10-Jun	0.43	3.62	10-Jun	0.33	1.86
11-Jun	0.32	1.72	11-Jun	0.66	7.58	11-Jun	0.40	3.02	11-Jun	0.26	1.02	11-Jun	0.41	3.21	11-Jun	0.32	1.72
12-Jun	0.34	2.01	12-Jun	0.37	2.48	12-Jun	0.44	3.75	12-Jun	0.26	1.02	12-Jun	0.40	3.02	12-Jun	0.31	1.59
13-Jun	0.37	2.48	13-Jun	0.34	2.01	13-Jun	0.41	3.21	13-Jun	0.25	0.93	13-Jun	0.42	3.41	13-Jun	0.41	3.21
14-Jun	0.37	2.48	14-Jun	0.32	1.72	14-Jun	0.48	4.36	14-Jun	0.24	0.84	14-Jun	0.43	3.62	14-Jun	0.45	2.16
15-Jun	0.36	2.32	15-Jun	0.31	1.59	15-Jun	0.40	3.02	15-Jun	0.24	0.84	15-Jun	0.40	3.02	15-Jun	0.32	1.72
16-Jun	0.35	2.16	16-Jun	0.30	1.46	16-Jun	0.39	2.83	16-Jun	0.23	0.76	16-Jun	0.65	7.38	16-Jun	0.33	1.86
17-Jun	0.34	2.01	17-Jun	0.30	1.46	17-Jun	0.39	2.83	17-Jun	0.24	0.84	17-Jun	0.46	4.05	17-Jun	0.31	1.59
18-Jun	0.32	1.72	18-Jun	0.29	1.35	18-Jun	0.43	3.62	18-Jun	0.23	0.76	18-Jun	0.43	3.62	18-Jun	0.30	1.46
19-Jun	0.30	1.46	19-Jun	0.29	1.35	19-Jun	0.40	3.02	19-Jun	0.22	0.70	19-Jun	0.43	3.62	19-Jun	0.26	1.02
20-Jun	0.35	2.16	20-Jun	0.28	1.23	20-Jun	0.38	2.65	20-Jun	0.22	0.70	20-Jun	0.37	2.48	20-Jun	0.34	2.01
21-Jun	0.42	3.41	21-Jun	0.32	1.72	21-Jun	0.57	5.87	21-Jun	0.24	0.84	21-Jun	0.37	2.48	21-Jun	0.30	1.46
22-Jun	0.45	3.90	22-Jun	0.28	1.23	22-Jun	0.48	4.36	22-Jun	0.25	0.93	22-Jun	0.37	2.48	22-Jun	0.30	1.46
23-Jun	0.40	3.02	23-Jun	0.28	1.23	23-Jun	0.45	3.90	23-Jun	0.25	0.93	23-Jun	0.35	2.16	23-Jun	0.28	1.23
24-Jun	0.46	4.05	24-Jun	0.27	1.12	24-Jun	0.45	3.90	24-Jun	0.25	0.93	24-Jun	0.34	2.01	24-Jun	0.27	1.12
25-Jun	0.42	3.41	25-Jun	0.29	1.35	25-Jun	0.48	4.36	25-Jun	0.24	0.84	25-Jun	0.32	1.72	25-Jun	0.27	1.12
26-Jun	0.49	4.52	26-Jun	0.28	1.23	26-Jun	0.51	4.84	26-Jun	0.25	0.93	26-Jun	0.31	1.59	26-Jun	0.27	1.12
27-Jun	0.40	3.02	27-Jun	0.26	1.02	27-Jun	0.45	3.90	27-Jun	0.25	0.93	27-Jun	0.30	1.46	27-Jun	0.26	1.02
28-Jun	0.49	4.52	28-Jun	0.46	4.05	28-Jun	0.40	3.02	28-Jun	0.26	1.02	28-Jun	0.30	1.46	28-Jun	0.26	1.02
29-Jun	0.42	3.41	29-Jun	0.34	2.01	29-Jun	0.40	3.02	29-Jun	0.25	0.93	29-Jun	0.29	1.35	29-Jun	0.27	1.12
30-Jun	0.73	9.03	30-Jun	0.32	1.72	30-Jun	0.35	2.16	30-Jun	0.29	1.35	30-Jun	0.31	1.59	30-Jun	0.27	1.12
1-Jul	0.57	5.87	1-Jul	0.45	3.90	1-Jul	0.40	3.02	1-Jul	0.40	3.02	1-Jul	0.28	1.23	1-Jul	0.37	2.48
2-Jul	0.50	4.68	2-Jul	0.43	3.62	2-Jul	0.35	2.16	2-Jul	0.46	4.05	2-Jul	0.28	1.23	2-Jul	0.27	1.12
3-Jul	0.59	6.24	3-Jul	0.36	2.32	3-Jul	0.34	2.01	3-Jul	0.43	3.62	3-Jul	0.28	1.23	3-Jul	0.27	1.12
4-Jul	0.51	4.84	4-Jul	0.37	2.48	4-Jul	0.34	2.01	4-Jul	0.42	3.41	4-Jul	0.27	1.12	4-Jul	0.27	1.12
5-Jul	0.52	5.01	5-Jul	0.38	2.65	5-Jul	0.34	2.01	5-Jul	0.41	3.21	5-Jul	0.26	1.02	5-Jul	0.27	1.12
6-Jul	0.46	4.05	6-Jul	0.50	4.68	6-Jul	0.32	1.72	6-Jul	0.41	3.21	6-Jul	0.27	1.12	6-Jul	0.26	1.02
7-Jul	0.49	4.52	7-Jul	0.35	2.16	7-Jul	0.38	2.65	7-Jul	0.40	3.02	7-Jul	0.30	1.46	7-Jul	0.27	1.12
8-Jul	0.45	3.90	8-Jul	0.38	2.65	8-Jul	0.36	2.32	8-Jul	0.38	2.65	8-Jul	0.36	2.32	8-Jul	0.27	1.12
9-Jul	0.44	3.75	9-Jul	0.35	2.16	9-Jul	0.36	2.32	9-Jul	0.37	2.48	9-Jul	0.30	1.46	9-Jul	0.27	1.12
10-Jul	0.45	3.90	10-Jul	0.41	3.21	10-Jul	0.34	2.01	10-Jul	0.36	2.32	10-Jul	0.28	1.23	10-Jul	0.28	1.23
11-Jul	0.45	3.90	11-Jul	0.63	6.99	11-Jul	0.32	1.72	11-Jul	0.38	2.65	11-Jul	0.28	1.23	11-Jul	0.30	1.46
12-Jul	0.43	3.62	12-Jul	0.52	5.01	12-Jul	0.34	2.01	12-Jul	0.36	2.32	12-Jul	0.27	1.12	12-Jul	0.30	1.46
13-Jul	0.42	3.41	13-Jul	0.49	4.52	13-Jul	0.30	1.46	13-Jul	0.34	2.01	13-Jul	0.27	1.12	13-Jul	0.29	1.35
14-Jul	0.45	3.90	14-Jul	0.41	3.21	14-Jul	0.33	1.86	14-Jul	0.32	1.72	14-Jul	0.25	0.93	14-Jul	0.27	1.12
15-Jul	0.46	4.05	15-Jul	0.39	2.83	15-Jul	0.30	1.46	15-Jul	0.34	2.01	15-Jul	0.25	0.93	15-Jul	0.28	1.23
16-Jul	0.43	3.62	16-Jul	0.36	2.32	16-Jul	0.37	2.48	16-Jul	0.33	1.86	16-Jul	0.25	0.93	16-Jul	0.27	1.12
17-Jul	0.37	2.48	17-Jul	0.65	7.38	17-Jul	0.32	1.72	17-Jul	0.32	1.72	17-Jul	0.25	0.93	17-Jul	0.28	1.23
18-Jul	0.37	2.48	18-Jul	0.47	4.20	18-Jul	0.30	1.46	18-Jul	0.30	1.46	18-Jul	0.24	0.84	18-Jul	0.27	1.12
19-Jul	0.42	3.41	19-Jul	0.40	3.02	19-Jul	0.29	1.35	19-Jul	0.31	1.59	19-Jul	0.24	0.84	19-Jul	0.27	1.12
20-Jul	0.38	2.65	20-Jul	0.37	2.48	20-Jul	0.27	1.12	20-Jul	0.45	3.90	20-Jul	0.25	0.93	20-Jul	0.25	0.93
21-Jul	0.39	2.83	21-Jul	0.39	2.83	21-Jul	0.29	1.35	21-Jul	0.31	1.59	21-Jul	0.32	1.72	21-Jul	0.24	0.84
22-Jul	0.37	2.48	22-Jul	0.38	2.65	22-Jul	0.30	1.46	22-Jul	0.30	1.46	22-Jul	0.25	0.93	22-Jul	0.24	0.84
23-Jul	0.37	2.48	23-Jul	0.37	2.48	23-Jul	0.30	1.46	23-Jul	0.30	1.46	23-Jul	0.25	0.93	23-Jul	0.24	0.84
24-Jul	0.35	2.16	24-Jul	0.34	2.01	24-Jul	0.29	1.35	24-Jul	0.29	1.35	24-Jul	0.25	0.93	24-Jul	0.23	0.76
25-Jul	0.32	1.72	25-Jul	0.34	2.01	25-Jul	0.33	1.86	25-Jul	0.28	1.23	25-Jul	0.28	1.23	25-Jul	0.24	0.84
26-Jul	0.30	1.46	26-Jul	0.34	2.01	26-Jul	0.34	2.01	26-Jul	0.29	1.35	26-Jul	0.27	1.12	26-Jul	0.24	0.84
27-Jul	0.27	1.12	27-Jul	0.34	2.01	27-Jul	0.33	1.86	27-Jul	0.30	1.46	27-Jul	0.26	1.02	27-Jul	0.24	0.84
28-Jul	0.32	1.72	28-Jul	0.32	1.72	28-Jul	0.38	2.65	28-Jul	0.34	2.01	28-Jul	0.26	1.02	28-Jul	0.24	0.84
29-Jul	0.36	2.32	29-Jul	0.34	2.01	29-Jul	0.33	1.86	29-Jul	0.35	2.16	29-Jul	0.25	0.93	29-Jul	0.24	0.84
30-Jul	0.34	2.01	30-Jul	0.36	2.32	30-Jul	0.30	1.46	30-Jul	0.56	5.70	30-Jul	0.26	1.02	30-Jul	0.24	0.84
31-Jul	0.33	1.86	31-Jul	0.35	2.16	31-Jul	0.32	1.72	31-Jul	0.55	5.52	31-Jul	0.26	1.02	31-Jul	0.48	4.36
1-Aug	0.34	2.01	1-Aug	0.33	1.86	1-Aug	0.30	1.46	1-Aug	0.56	5.70	1-Aug	*0.26	1.02	1-Aug	0.34	2.01
2-Aug	0.30	1.46	2-Aug	0.32	1.72	2-Aug	0.31	1.59	2-Aug	0.58	6.05	2-Aug	*0.26	1.02	2-Aug	0.27	1.12
3-Aug	0.29	1.35	3-Aug	0.32	1.72	3-Aug	0.45	3.90	3-Aug	0.57	5.87	3-Aug	*0.26	1.02	3-Aug	0.27	1.12
4-Aug	0.30	1.46	4-Aug	0.40	3.02	4-Aug	0.39	2.83	4-Aug	0.55	5.52	4-Aug	*0.26	1.02	4-Aug	0.27	1.12
5-Aug	0.28	1.23	5-Aug	0.36	2.32	5-Aug	0.49	4.52	5-Aug	0.53	5.18	5-Aug	*0.26	1.02	5-Aug	0.36	2.32
6-Aug	0.28	1.23	6-Aug	0.37	2.48	6-Aug	0.41	3.21	6-Aug	0.51	4.84	6-Aug	*0.26	1.02	6-Aug	0.32	1.72
7-Aug	0.30	1.46	7-Aug	0.37	2.48	7-Aug	0.43	3.62	7-Aug	0.48	4.36	7-Aug	*0.26	1.02	7-Aug	0.34	2.01
8-Aug	0.36	2.32	8-Aug	0.35	2.16	8-Aug	0.40	3.02	8-Aug	0.45	3.90	8-Aug	*0.26	1.02	8-Aug	0.30	1.46
9-Aug	0.37	2.48	9-Aug	0.34	2.01	9-Aug	0.50	4.68	9-Aug	0.41	3.21	9-Aug	*0.26	1.02	9-Aug	0.30	1.46
10-Aug	0.30	1.46	10-Aug	0.30	1.46	10-Aug	0.40	3.02	10-Aug	0.50	4.68	10-Aug	*0.26	1.02	10-Aug	0.47	4.20
11-Aug	0.30	1.46	11-Aug	0.30	1.46	11-Aug	0.35	2.32	11-Aug	0.73	9.03	11-Aug	*0.26	1.02	11-Aug	0.55	5.52
12-Aug	0.29	1.35	12-Aug	0.30	1.46	12-Aug	0.34	2.01	12-Aug	0.72	8.81	12-Aug	*0.26	1.02	12-Aug	0.41	3.21
13-Aug	0.28	1.23	13-Aug	0.30	1.46	13-Aug	0.34	2.01	13-Aug	0.70	8.39	13-Aug	*0.26	1.02	13-Aug	0.38	2.65
14-Aug	0.27	1.12	14-Aug	0.29	1.35	14-Aug	0.34	2.01	14-Aug	0.67	7.78	14-Aug	*0.26	1.02	14-Aug	0.35	2.16
15-Aug	0.27	1.12	15-Aug	0.30	1.46	15-Aug	0.35	2.16	15-Aug	0.64	7.18	15-Aug	*0.26	1.02	15-Aug	0.34	2.01
16-Aug	0.28	1.23	16-Aug	0.39	2.83	16-Aug	0.39	2.83	16-Aug	0.61	6.61	16-Aug	*0.25	0.93	16-Aug	0.34	2.01
17-Aug	0.27	1.12	17-Aug	0.38	2.65	17-Aug	0.45	3.90	17-Aug	0.60	6.42	17-Aug	*0.25	0.93	17-Aug	0.30	1.46
18-Aug	0.28	1.23	18-Aug	0.32	1.72	18-Aug	0.36	2.32	18-Aug	0.59	6.24	18-Aug	*0.25	0.93	18-Aug	0.30	1.46
19-Aug	0.26	1.02	19-Aug	0.32													

Daily Mean Water Level and Flow at HHA04 on Kibos River (unit: H: m, Q: m³/s) * * * denotes estimated value by interpolation

1980	H	Q	1981	H	Q	1982	H	Q	1983	H	Q	1987	H	Q	1988	H	Q
20-Aug	0.24	0.84	20-Aug	0.29	1.35	20-Aug	0.34	2.01	20-Aug	0.66	7.58	20-Aug	*0.25	0.93	20-Aug	0.54	5.35
21-Aug	0.26	1.02	21-Aug	0.29	1.35	21-Aug	0.30	1.46	21-Aug	0.83	11.28	21-Aug	*0.25	0.93	21-Aug	0.51	4.84
22-Aug	0.26	1.02	22-Aug	0.30	1.46	22-Aug	0.30	1.46	22-Aug	0.73	9.03	22-Aug	*0.25	0.93	22-Aug	0.51	4.84
23-Aug	0.25	0.93	23-Aug	0.27	1.12	23-Aug	0.30	1.46	23-Aug	0.77	9.90	23-Aug	*0.25	0.93	23-Aug	0.58	6.05
24-Aug	0.25	0.93	24-Aug	0.28	1.23	24-Aug	0.46	4.05	24-Aug	0.78	10.13	24-Aug	*0.25	0.93	24-Aug	0.51	4.84
25-Aug	0.27	1.12	25-Aug	0.34	2.01	25-Aug	0.36	2.32	25-Aug	0.73	9.03	25-Aug	*0.25	0.93	25-Aug	0.43	3.62
26-Aug	0.30	1.46	26-Aug	0.40	3.02	26-Aug	0.34	2.01	26-Aug	0.71	8.60	26-Aug	*0.25	0.93	26-Aug	0.42	3.41
27-Aug	0.30	1.46	27-Aug	0.41	3.21	27-Aug	0.37	2.48	27-Aug	0.69	8.19	27-Aug	*0.25	0.93	27-Aug	0.40	3.02
28-Aug	0.21	0.65	28-Aug	0.35	2.16	28-Aug	0.33	1.86	28-Aug	0.67	7.78	28-Aug	*0.25	0.93	28-Aug	0.41	3.21
29-Aug	0.39	2.83	29-Aug	0.37	2.48	29-Aug	0.30	1.46	29-Aug	0.65	7.38	29-Aug	*0.25	0.93	29-Aug	0.36	2.32
30-Aug	0.35	2.16	30-Aug	0.40	3.02	30-Aug	0.30	1.46	30-Aug	0.63	6.99	30-Aug	*0.25	0.93	30-Aug	0.39	2.83
31-Aug	0.37	2.48	31-Aug	0.37	2.48	31-Aug	0.30	1.46	31-Aug	0.62	6.80	31-Aug	*0.25	0.93	31-Aug	0.37	2.48
1-Sep	0.28	1.23	1-Sep	0.35	2.16	1-Sep	0.29	1.35	1-Sep	0.60	6.42	1-Sep	0.25	0.93	1-Sep	0.34	2.01
2-Sep	0.32	1.72	2-Sep	0.35	2.16	2-Sep	0.27	1.12	2-Sep	0.57	5.87	2-Sep	0.23	0.76	2-Sep	0.34	2.01
3-Sep	0.30	1.46	3-Sep	0.33	1.86	3-Sep	0.26	1.02	3-Sep	0.65	7.38	3-Sep	0.22	0.70	3-Sep	0.37	2.48
4-Sep	0.29	1.35	4-Sep	0.33	1.86	4-Sep	0.25	0.93	4-Sep	0.57	5.87	4-Sep	0.22	0.70	4-Sep	0.35	2.16
5-Sep	0.29	1.35	5-Sep	0.33	1.86	5-Sep	0.49	4.52	5-Sep	0.53	5.18	5-Sep	0.24	0.84	5-Sep	0.43	3.62
6-Sep	0.29	1.35	6-Sep	0.44	3.75	6-Sep	0.36	2.32	6-Sep	0.53	5.18	6-Sep	0.22	0.70	6-Sep	0.38	2.65
7-Sep	0.37	2.48	7-Sep	0.38	2.65	7-Sep	0.34	2.01	7-Sep	0.58	6.05	7-Sep	0.22	0.70	7-Sep	0.38	2.65
8-Sep	0.41	3.21	8-Sep	0.37	2.48	8-Sep	0.30	1.46	8-Sep	0.62	6.80	8-Sep	0.22	0.70	8-Sep	0.33	1.86
9-Sep	0.39	2.83	9-Sep	0.42	3.41	9-Sep	0.30	1.46	9-Sep	0.58	6.05	9-Sep	0.22	0.70	9-Sep	0.34	2.01
10-Sep	0.35	2.16	10-Sep	0.45	3.90	10-Sep	0.29	1.35	10-Sep	0.57	5.87	10-Sep	0.22	0.70	10-Sep	0.32	1.72
11-Sep	0.37	2.48	11-Sep	0.38	2.65	11-Sep	0.30	1.46	11-Sep	0.54	5.35	11-Sep	0.21	0.65	11-Sep	0.30	1.46
12-Sep	0.46	4.05	12-Sep	0.40	3.02	12-Sep	0.30	1.46	12-Sep	0.52	5.01	12-Sep	0.21	0.65	12-Sep	0.30	1.46
13-Sep	0.40	3.02	13-Sep	0.42	3.41	13-Sep	0.26	1.02	13-Sep	0.47	4.20	13-Sep	0.22	0.70	13-Sep	0.30	1.46
14-Sep	0.35	2.16	14-Sep	0.43	3.62	14-Sep	0.29	1.35	14-Sep	0.34	2.01	14-Sep	0.22	0.70	14-Sep	0.42	3.41
15-Sep	0.39	2.83	15-Sep	0.40	3.02	15-Sep	0.34	2.01	15-Sep	0.29	1.35	15-Sep	0.22	0.70	15-Sep	0.39	2.83
16-Sep	0.35	2.16	16-Sep	0.37	2.48	16-Sep	0.72	8.81	16-Sep	0.28	1.23	16-Sep	0.23	0.76	16-Sep	0.34	2.01
17-Sep	0.35	2.16	17-Sep	0.36	2.32	17-Sep	0.54	5.35	17-Sep	0.26	1.02	17-Sep	0.22	0.70	17-Sep	0.37	2.48
18-Sep	0.32	1.72	18-Sep	0.34	2.01	18-Sep	0.45	3.90	18-Sep	0.25	0.93	18-Sep	0.25	0.93	18-Sep	0.30	1.46
19-Sep	0.34	2.01	19-Sep	0.33	1.86	19-Sep	0.37	2.48	19-Sep	0.26	1.02	19-Sep	0.24	0.84	19-Sep	0.34	2.01
20-Sep	0.30	1.46	20-Sep	0.33	1.86	20-Sep	0.43	3.62	20-Sep	0.28	1.23	20-Sep	0.22	0.70	20-Sep	0.31	1.59
21-Sep	0.30	1.46	21-Sep	0.34	2.01	21-Sep	0.42	3.41	21-Sep	0.25	0.93	21-Sep	0.27	1.12	21-Sep	0.30	1.46
22-Sep	0.30	1.46	22-Sep	0.38	2.65	22-Sep	0.42	3.41	22-Sep	0.26	1.02	22-Sep	0.25	0.93	22-Sep	0.30	1.46
23-Sep	0.34	2.01	23-Sep	0.37	2.48	23-Sep	0.60	6.42	23-Sep	0.25	0.93	23-Sep	0.22	0.70	23-Sep	0.30	1.46
24-Sep	0.33	1.86	24-Sep	0.36	2.32	24-Sep	0.48	4.36	24-Sep	0.29	1.35	24-Sep	0.27	1.12	24-Sep	0.49	4.52
25-Sep	0.38	2.65	25-Sep	0.32	1.72	25-Sep	0.44	3.75	25-Sep	0.28	1.23	25-Sep	0.22	0.70	25-Sep	0.43	3.62
26-Sep	0.43	3.62	26-Sep	0.38	2.65	26-Sep	0.40	3.02	26-Sep	0.26	1.02	26-Sep	0.23	0.76	26-Sep	0.44	3.75
27-Sep	0.37	2.48	27-Sep	0.36	2.32	27-Sep	0.37	2.48	27-Sep	0.30	1.46	27-Sep	0.22	0.70	27-Sep	0.47	4.20
28-Sep	0.35	2.16	28-Sep	0.48	4.36	28-Sep	0.39	2.83	28-Sep	0.29	1.35	28-Sep	0.25	0.93	28-Sep	0.44	3.75
29-Sep	0.32	1.72	29-Sep	0.42	3.41	29-Sep	0.33	1.86	29-Sep	0.29	1.35	29-Sep	0.22	0.70	29-Sep	0.46	4.05
30-Sep	0.30	1.46	30-Sep	0.38	2.65	30-Sep	0.32	1.72	30-Sep	0.26	1.02	30-Sep	0.29	1.35	30-Sep	0.43	3.62
1-Oct	0.28	1.23	1-Oct	0.45	3.90	1-Oct	0.36	2.32	1-Oct			1-Oct	0.24	0.84	1-Oct	0.44	3.75
2-Oct	0.27	1.12	2-Oct	0.38	2.65	2-Oct	0.34	2.01	2-Oct			2-Oct	0.24	0.84	2-Oct	0.41	3.21
3-Oct	0.27	1.12	3-Oct	0.36	2.32	3-Oct	0.36	2.32	3-Oct			3-Oct	0.22	0.70	3-Oct	0.41	3.21
4-Oct	0.27	1.12	4-Oct	0.34	2.01	4-Oct	0.33	1.86	4-Oct			4-Oct	0.22	0.70	4-Oct	0.37	2.48
5-Oct	0.28	1.23	5-Oct	0.33	1.86	5-Oct	0.30	1.46	5-Oct			5-Oct	0.22	0.70	5-Oct	0.39	2.83
6-Oct	0.25	0.93	6-Oct	0.32	1.72	6-Oct	0.28	1.23	6-Oct			6-Oct	0.34	2.01	6-Oct	0.36	2.32
7-Oct	0.26	1.02	7-Oct	0.30	1.46	7-Oct	0.29	1.35	7-Oct			7-Oct	0.23	0.76	7-Oct	0.34	2.01
8-Oct	0.34	2.01	8-Oct	0.33	1.86	8-Oct	0.28	1.23	8-Oct			8-Oct	0.22	0.70	8-Oct	0.35	2.16
9-Oct	0.28	1.23	9-Oct	0.32	1.72	9-Oct	0.29	1.35	9-Oct			9-Oct	0.22	0.70	9-Oct	0.32	1.72
10-Oct	0.27	1.12	10-Oct	0.36	2.32	10-Oct	0.28	1.23	10-Oct			10-Oct	0.24	0.84	10-Oct	0.30	1.46
11-Oct	0.27	1.12	11-Oct	0.32	1.72	11-Oct	0.27	1.12	11-Oct			11-Oct	0.36	2.32	11-Oct	0.30	1.46
12-Oct	0.26	1.02	12-Oct	0.40	3.02	12-Oct	0.57	5.87	12-Oct			12-Oct	0.25	0.93	12-Oct	0.29	1.35
13-Oct	0.34	2.01	13-Oct	0.31	1.59	13-Oct	0.44	3.75	13-Oct			13-Oct	0.24	0.84	13-Oct	0.29	1.35
14-Oct	0.36	2.32	14-Oct	0.30	1.46	14-Oct	0.37	2.48	14-Oct			14-Oct	0.30	1.46	14-Oct	0.50	4.68
15-Oct	0.34	2.01	15-Oct	0.29	1.35	15-Oct	0.37	2.48	15-Oct			15-Oct	0.23	0.76	15-Oct	0.52	5.01
16-Oct	0.32	1.72	16-Oct	0.29	1.35	16-Oct	0.34	2.01	16-Oct			16-Oct	0.22	0.70	16-Oct	0.38	2.65
17-Oct	0.29	1.35	17-Oct	0.29	1.35	17-Oct	0.42	3.41	17-Oct			17-Oct	0.27	1.12	17-Oct	0.34	2.01
18-Oct	0.39	2.83	18-Oct	0.27	1.12	18-Oct	0.37	2.48	18-Oct			18-Oct	0.22	0.70	18-Oct	0.32	1.72
19-Oct	0.37	2.48	19-Oct	0.30	1.46	19-Oct	0.39	2.83	19-Oct			19-Oct	0.22	0.70	19-Oct	0.32	1.72
20-Oct	0.47	4.20	20-Oct	0.30	1.46	20-Oct	0.42	3.41	20-Oct			20-Oct	0.25	0.93	20-Oct	0.30	1.46
21-Oct	0.44	3.75	21-Oct	0.31	1.59	21-Oct	0.46	4.05	21-Oct			21-Oct	0.24	0.84	21-Oct	0.29	1.35
22-Oct	0.41	3.21	22-Oct	0.35	2.16	22-Oct	0.43	3.62	22-Oct			22-Oct	0.22	0.70	22-Oct	0.30	1.46
23-Oct	0.37	2.48	23-Oct	0.30	1.46	23-Oct	0.38	2.65	23-Oct			23-Oct	0.28	1.23	23-Oct	0.29	1.35
24-Oct	0.33	1.86	24-Oct	0.35	2.16	24-Oct	0.39	2.83	24-Oct			24-Oct	0.30	1.46	24-Oct	0.29	1.35
25-Oct	0.30	1.46	25-Oct	0.36	2.32	25-Oct	0.35	2.16	25-Oct			25-Oct	0.32	1.72	25-Oct	0.30	1.46
26-Oct	0.30	1.46	26-Oct	0.31	1.59	26-Oct	0.35	2.16	26-Oct			26-Oct	0.23	0.76	26-Oct	0.31	1.59
27-Oct	0.30	1.46	27-Oct	0.31	1.59	27-Oct	0.34	2.01	27-Oct			27-Oct	0.24	0.84	27-Oct	0.29	1.35
28-Oct	0.27	1.12	28-Oct	0.36	2.32	28-Oct	0.33	1.86	28-Oct			28-Oct	0.22	0.70	28-Oct	0.31	1.59
29-Oct	0.28	1.23	29-Oct	0.30	1.46	29-Oct	0.36	2.32	29-Oct			29-Oct	0.22	0.70	29-Oct	0.28	1.23
30-Oct	0.28	1.23	30-Oct	0.52	5.01	30-Oct	0.34	2.01	30-Oct			30-Oct	0.22	0.70	30-Oct	0.28	1.23
31-Oct	0.27	1.12	31-Oct	0.42	3.41	31-Oct	0.37	2.48	31-Oct			31-Oct	0.21	0.65	31-Oct	0.29	1.35
1-Nov	0.27	1.12	1-Nov	0.36	2.32	1-Nov	0.37	2.48	1-Nov			1-Nov	0.24	0.84	1-Nov	0.28	1.23
2-Nov	0.27	1.12	2-Nov	0.32	1.72	2-Nov	0.95	14.26	2-Nov			2-Nov	0.24	0.84	2-Nov	0.27	1.12
3-Nov	0.27	1.12	3-Nov	0.30	1.46	3-Nov	0.87	12.24	3-Nov			3-Nov	0.21	0.65	3-Nov	0.27	1.12
4-Nov	0.26	1.02	4-Nov	0.29	1.35	4-Nov	0.85	11.76	4-Nov			4-Nov	0.21	0.65	4-Nov	0.28	1.23

Daily Mean Water Level and Flow at IHA04 on Kibos River (unit: H = m, Q = m³/s) * * * denotes estimated value by interpolation

1980	H	Q	1981	H	Q	1982	H	Q	1983	H	Q	1987	H	Q	1988	H	Q
5-Nov	0.24	0.84	5-Nov	0.32	1.72	5-Nov	0.70	8.39	5-Nov			5-Nov	0.22	0.70	5-Nov	0.30	1.46
6-Nov	0.25	0.93	6-Nov	0.30	1.46	6-Nov	0.72	8.81	6-Nov			6-Nov	0.30	1.46	6-Nov	0.30	1.46
7-Nov	0.27	1.12	7-Nov	0.28	1.23	7-Nov	0.61	6.61	7-Nov			7-Nov	0.34	2.01	7-Nov	0.29	1.35
8-Nov	0.27	1.12	8-Nov	0.27	1.12	8-Nov	0.57	5.87	8-Nov			8-Nov	0.29	1.35	8-Nov	0.27	1.12
9-Nov	0.26	1.02	9-Nov	0.28	1.23	9-Nov	0.50	4.68	9-Nov			9-Nov	0.29	1.35	9-Nov	0.27	1.12
10-Nov	0.26	1.02	10-Nov	0.34	2.01	10-Nov	0.49	4.52	10-Nov			10-Nov	0.40	3.02	10-Nov	0.30	1.46
11-Nov	0.27	1.12	11-Nov	0.29	1.35	11-Nov	0.50	4.68	11-Nov			11-Nov	0.30	1.46	11-Nov	0.28	1.23
12-Nov	0.32	1.72	12-Nov	0.28	1.23	12-Nov	0.50	4.68	12-Nov			12-Nov	0.32	1.72	12-Nov	0.27	1.12
13-Nov	0.27	1.12	13-Nov	0.27	1.12	13-Nov	0.58	6.05	13-Nov			13-Nov	0.36	2.32	13-Nov	0.27	1.12
14-Nov	0.29	1.35	14-Nov	0.28	1.23	14-Nov	0.51	4.84	14-Nov			14-Nov	0.37	2.48	14-Nov	0.27	1.12
15-Nov	0.35	2.16	15-Nov	0.27	1.12	15-Nov	0.54	5.35	15-Nov			15-Nov	0.33	1.86	15-Nov	0.28	1.23
16-Nov	0.35	2.16	16-Nov	0.27	1.12	16-Nov	0.49	4.52	16-Nov			16-Nov	0.40	3.02	16-Nov	0.27	1.12
17-Nov	0.31	1.59	17-Nov	0.28	1.23	17-Nov	0.49	4.52	17-Nov			17-Nov	0.33	1.86	17-Nov	0.24	0.84
18-Nov	0.29	1.35	18-Nov	0.26	1.02	18-Nov	0.47	4.20	18-Nov			18-Nov	0.39	2.83	18-Nov	0.24	0.84
19-Nov	0.30	1.46	19-Nov	0.26	1.02	19-Nov	0.43	3.62	19-Nov			19-Nov	0.33	1.86	19-Nov	0.26	1.02
20-Nov	0.43	3.62	20-Nov	0.26	1.02	20-Nov	0.43	3.62	20-Nov			20-Nov	0.31	1.59	20-Nov	0.26	1.02
21-Nov	0.40	3.02	21-Nov	0.30	1.46	21-Nov	0.37	2.48	21-Nov			21-Nov	0.31	1.59	21-Nov	0.26	1.02
22-Nov	0.49	4.52	22-Nov	0.26	1.02	22-Nov	0.35	2.16	22-Nov			22-Nov	0.28	1.23	22-Nov	0.30	1.46
23-Nov	0.46	4.05	23-Nov	0.29	1.35	23-Nov	0.46	4.05	23-Nov			23-Nov	0.27	1.12	23-Nov	0.32	1.72
24-Nov	0.37	2.48	24-Nov	0.28	1.23	24-Nov	0.60	6.42	24-Nov			24-Nov	0.29	1.35	24-Nov	0.27	1.12
25-Nov	0.36	2.32	25-Nov	0.25	0.93	25-Nov	0.57	5.87	25-Nov			25-Nov	0.28	1.23	25-Nov	0.32	1.72
26-Nov	0.33	1.86	26-Nov	0.24	0.84	26-Nov	0.53	5.18	26-Nov			26-Nov	0.31	1.59	26-Nov	0.29	1.35
27-Nov	0.31	1.59	27-Nov	0.23	0.76	27-Nov	0.54	5.35	27-Nov			27-Nov	0.28	1.23	27-Nov	0.24	0.84
28-Nov	0.30	1.46	28-Nov	0.23	0.76	28-Nov	0.76	9.68	28-Nov			28-Nov	0.28	1.23	28-Nov	0.24	0.84
29-Nov	0.30	1.46	29-Nov	0.24	0.84	29-Nov	0.84	11.52	29-Nov			29-Nov	0.29	1.35	29-Nov	0.24	0.84
30-Nov	0.28	1.23	30-Nov	0.32	1.72	30-Nov	1.45	29.71	30-Nov			30-Nov	0.28	1.23	30-Nov	0.26	1.02
1-Dec	0.27	1.12	1-Dec	0.23	0.76	1-Dec	0.93	13.74	1-Dec			1-Dec	0.27	1.12	1-Dec	0.24	0.84
2-Dec	0.26	1.02	2-Dec	0.22	0.70	2-Dec	0.88	12.49	2-Dec			2-Dec	0.24	0.84	2-Dec	0.23	0.76
3-Dec	0.25	0.93	3-Dec	0.22	0.70	3-Dec	0.78	10.13	3-Dec			3-Dec	0.22	0.70	3-Dec	0.23	0.76
4-Dec	0.25	0.93	4-Dec	0.22	0.70	4-Dec	0.82	11.05	4-Dec			4-Dec	0.22	0.70	4-Dec	0.22	0.70
5-Dec	0.25	0.93	5-Dec	0.22	0.70	5-Dec	0.76	9.68	5-Dec			5-Dec	0.23	0.76	5-Dec	0.21	0.65
6-Dec	0.25	0.93	6-Dec	0.25	0.93	6-Dec	0.66	7.58	6-Dec			6-Dec	0.27	1.12	6-Dec	0.20	0.59
7-Dec	0.32	1.72	7-Dec	0.29	1.35	7-Dec	0.73	9.03	7-Dec			7-Dec	0.25	0.93	7-Dec	0.20	0.59
8-Dec	0.30	1.46	8-Dec	0.31	1.59	8-Dec	0.73	9.03	8-Dec			8-Dec	0.25	0.93	8-Dec	0.20	0.59
9-Dec	0.30	1.46	9-Dec	0.29	1.35	9-Dec	0.64	7.18	9-Dec			9-Dec	0.24	0.84	9-Dec	0.21	0.65
10-Dec	0.30	1.46	10-Dec	0.29	1.35	10-Dec	0.55	5.52	10-Dec			10-Dec	0.22	0.70	10-Dec	0.21	0.65
11-Dec	0.32	1.72	11-Dec	0.29	1.35	11-Dec	0.48	4.36	11-Dec			11-Dec	0.25	0.93	11-Dec	0.21	0.65
12-Dec	0.28	1.23	12-Dec	0.28	1.23	12-Dec	0.49	4.52	12-Dec			12-Dec	0.22	0.70	12-Dec	0.21	0.65
13-Dec	0.27	1.12	13-Dec	0.28	1.23	13-Dec	0.54	5.35	13-Dec			13-Dec	0.25	0.93	13-Dec	0.20	0.59
14-Dec	0.24	0.84	14-Dec	0.28	1.23	14-Dec	0.46	4.05	14-Dec			14-Dec	0.22	0.70	14-Dec	0.18	0.50
15-Dec	0.24	0.84	15-Dec	0.21	0.65	15-Dec	0.46	4.05	15-Dec			15-Dec	0.21	0.65	15-Dec	0.18	0.50
16-Dec	0.23	0.76	16-Dec	0.22	0.70	16-Dec	0.46	4.05	16-Dec			16-Dec	0.21	0.65	16-Dec	0.18	0.50
17-Dec	0.21	0.65	17-Dec	0.22	0.70	17-Dec	0.45	3.90	17-Dec			17-Dec	0.21	0.65	17-Dec	0.19	0.54
18-Dec	0.23	0.76	18-Dec	0.30	1.46	18-Dec	0.46	4.05	18-Dec			18-Dec	0.22	0.70	18-Dec	0.20	0.59
19-Dec	0.21	0.65	19-Dec	0.25	0.93	19-Dec	0.45	3.90	19-Dec			19-Dec	0.21	0.65	19-Dec	0.19	0.54
20-Dec	0.24	0.84	20-Dec	0.25	0.93	20-Dec	0.43	3.62	20-Dec			20-Dec	0.20	0.59	20-Dec	0.19	0.54
21-Dec	0.30	1.46	21-Dec	0.23	0.76	21-Dec	0.46	4.05	21-Dec			21-Dec	0.21	0.65	21-Dec	0.20	0.59
22-Dec	0.26	1.02	22-Dec	0.24	0.84	22-Dec	0.48	4.36	22-Dec			22-Dec	0.20	0.59	22-Dec	0.20	0.59
23-Dec	0.22	0.70	23-Dec	0.22	0.70	23-Dec	0.44	3.75	23-Dec			23-Dec	0.19	0.54	23-Dec	0.19	0.54
24-Dec	0.22	0.70	24-Dec	0.21	0.65	24-Dec	0.43	3.62	24-Dec			24-Dec	0.18	0.50	24-Dec	0.18	0.50
25-Dec	0.22	0.70	25-Dec	0.22	0.70	25-Dec	0.41	3.21	25-Dec			25-Dec	0.18	0.50	25-Dec	0.18	0.50
26-Dec	0.21	0.65	26-Dec	0.21	0.65	26-Dec	0.40	3.02	26-Dec			26-Dec	0.20	0.59	26-Dec	0.18	0.50
27-Dec	0.22	0.70	27-Dec	0.20	0.59	27-Dec	0.39	2.83	27-Dec			27-Dec	0.18	0.50	27-Dec	0.20	0.59
28-Dec	0.22	0.70	28-Dec	0.21	0.65	28-Dec	0.37	2.48	28-Dec			28-Dec	0.18	0.50	28-Dec	0.29	1.35
29-Dec	0.23	0.76	29-Dec	0.25	0.93	29-Dec	0.34	2.01	29-Dec			29-Dec	0.19	0.54	29-Dec	0.21	0.65
30-Dec	0.23	0.76	30-Dec	0.23	0.76	30-Dec	0.32	1.72	30-Dec			30-Dec	0.25	0.93	30-Dec	0.24	0.84
31-Dec	0.23	0.76	31-Dec	0.25	0.93	31-Dec	0.30	1.46	31-Dec			31-Dec	0.25	0.93	31-Dec	0.21	0.65