CHAPTER 9 RECOMMENDATION

Surface water data is the basic element in the planning, design, construction and operation of all water resources projects, which are extremely important to the nation's economy due to their impact on agricultural, industrial and social development. Thus systematic collection, processing and analysis of these surface water data are the primary factors in accurate assessment and management of a country's water resources. Although Zambian economy is not currently in good condition, limited budget should be effectively used for these objectives. The Study Team recommends followings:

(1) Network of Hydrometric Stations

There are 243 nation-wide hydrometric stations registered in DWA. At 160 of these stations, water levels have been measured continuously to date and 174 stations have discharge rating curves. The water level information which is collected by gauge readers employed by DWA, is returned on a monthly basis to the regional office. The data is checked and forwarded to the Hydrological Branch in Lusaka where it is entered into monthly summary sheets. However even at some principal stations with long recorded periods, maintenance and rehabilitation works had not been made because of lack of budget, transportation, equipment and proper management.

The useful hydrological data are those which are continuously and exactly collected and processed. Hydrological data collection at all the registered stations is difficult due to the limited budget. Then practically necessary stations as much as the budget affords should be selected, following the priority proposed by JICA Report in March 1992. At the selected station, daily water level should be certainly reported and discharge measurement should be carried out once or twice a year. In addition water quality investigation and sediment sampling also should be carried out in parallel with discharge measurement.

(2) Data Collection for Water Level and Discharge Measurement

Data collection of water levels has gone down due to retrenchment of gauge readers at a large number of stations since 1992. Discharge data collection also has become worse due to lack of transportation and limited budget. Moreover bad maintenance of surface water observation equipment, namely staff gauges, current meters, boats, is also one of the causes. Taking these situation into account, following recommendation is proposed:

- to employ permanent gauge readers and strict instruction should be given.
- Regional office should carried out flow measurement at the station covered by the office and also should maintain staff gauges.
- The accuracy of current meters should be examined.

(3) Data Management

All water level and flow measurement data managed by DWA are filed in the Hydrological Branch, DWA. The computerisation of data processing has advanced since the previous JICA project in 1992. DWA keeps most water level data on computer as LOTUS-123 files but some of the flow measurement data are stored on computer. These water level data on computer is necessary to be carefully checked for data accuracy because observation miss or imputing error were sometime found.

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In the Study, the database system for water level and flow measurement data were provided. This database system has the function of archiving, analysing, presenting on computer and printing of all data. Data check is easy to be done, utilising these function.

Annual Hydrological Report including annual hydrological data and DWA's activities should be published for the availability to the public. As this database system presents good quality output of tables and figures for daily water levels and daily discharges, the outputs could be directly utilised for a manuscript.

(4) Adoption of Concept of Maintenance Flow

The concept of maintenance flow is not found in the "Water Act". The maintenance flow of a perennial river is required to maintain river water depth, conservation of groundwater, and the people's amenity. In the estimation of the intake rate potential from a river, the recorded minimum discharge is employed instead of average drought discharge used in dam development, because of the following reasons : At a dam development site, the discharge corresponding to the maintenance flow usually flows downstream and the frequency of the extreme low flow condition is relatively high. To the contrary, at a development site from which flow is directly abstracted, low flow conditions such as maintenance flow, rarely occurred.

However the maintenance flow is basically peculiar by rivers and depends on the environmental condition in the downstream reach. Thus more detailed investigation should be carried out for determining the maintenance flow and the intake rate potential from rivers.

(5) Necessity of Technical Training and Hydrological Data Management Engineer

Technical training is necessary for not only engineers but also field technicians and computer staffs. Engineers should trained field technicians on the hydrological technology. Field technicians have much experience in the fields and they know the field condition very well. They should be given the chance also to learn how to operate computer and database system. Besides computer staffs should be given the chance.

In order to enhance hydrological data management in DWA, a key engineer should be in Hydrological Branch in DWA. He should develop data processing system in the Branch and should train the staffs.



Appendices

Appendix - 1 List of Hydrometric Station Operated by DWA

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Appendix - 2Cross Section and Discharge Rating Curve at Hydrometric Station Appendix - 3Monthly Mean Discharge and Flow Regime at Hydrometric Station Appendix - 1 List of Hydrometric Station Operated by DWA

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List of Hydrometric Stations in Zambia

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List of Hydrometric Stations in Zambia

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		303 Noona / Ntumbachushi Falls	Oct-57		ž	≻	z	<u>۲</u>	000 00000%%%% #########################	Q III
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6		Muweru Lake / Nchelenge (Reopen)	Mar-94	•	≻	Έ	z	Z		
6	383	Mutotoshi / Kupuma Falls	Nov-57		>-	;>-	z	7	000 0000=========00000000= 00======00000	Ħ
6	4,895	Luangwa / Mumbuluma Falis	Sep-70	Sep-92	z	≻	z	۶	###0##0###	
J	10.218	Kalungwishi / Chimpempe Pontoon	Mar-51		≻	≻		z	*****	0####
	12.018	Kaluncwishi / Kundabwika Falls	Aug-70		≻	≻	: z	۶	000000 0== == #########################	*****
	12,170	Kalungwishi / Olandi	Apr-54		≻	≻	z	z	WHAT HAVE HAVE AND IN THIS WALLARD AND IN THIS WALLARD.	難
	2,186	Chishela / Bulaya Pontoon	Jun-58		≻	۲	z	≻	0C 000#################################	₩ ₩
ۍ ،	1,166	Mwawe / Mwawe Cause Way	Sep-58	Sep-71	Z	≻	z	<u>≻</u>		
	2,424	Choma / Kaputa	Sep-57		≻	ε	z	۲	000 000%%%%% ==========================	##
ģ	2,424	Choma / Kaputa	Jan-70	Sep-89	≻	ε	z	`		
ሳ	•	Mweru Wantipa / Kampinda	Sep-57		≻	7	z	≻	<u>*************************************</u>	#
ŵ	707	Mwambeshi / Nsama	Jun-59		≻	≻	z	<u>۲</u>	-##0#####00 ##0#000000	#==#=
Ġ	1.015	Mukubwa / Kambasa	Jui-58	Aug-84	z	> -	z	<u>≻</u>		
Ġ		Mofwe Dambo / Mukupa Katandula	Oct-56	Jan-71	z	ε	z	z	===== =================================	ļ
ම්		Mwelu Lake / Katulwe Mission	Nov-55	Apr-90	z	z	z	z	====# #\$#\$\$\$###########################	
	Lake Tanganvika Basin	ivika Basin								
1	7-005 363 Lunzi	363 Lunzua / Kambole Bridge	May-70	Sep-92	Z	≻	z	۲		
- F		Hozua / Linzua Weir	Jan-57	Oct-89		≻	Σ	۲	== ###################################	
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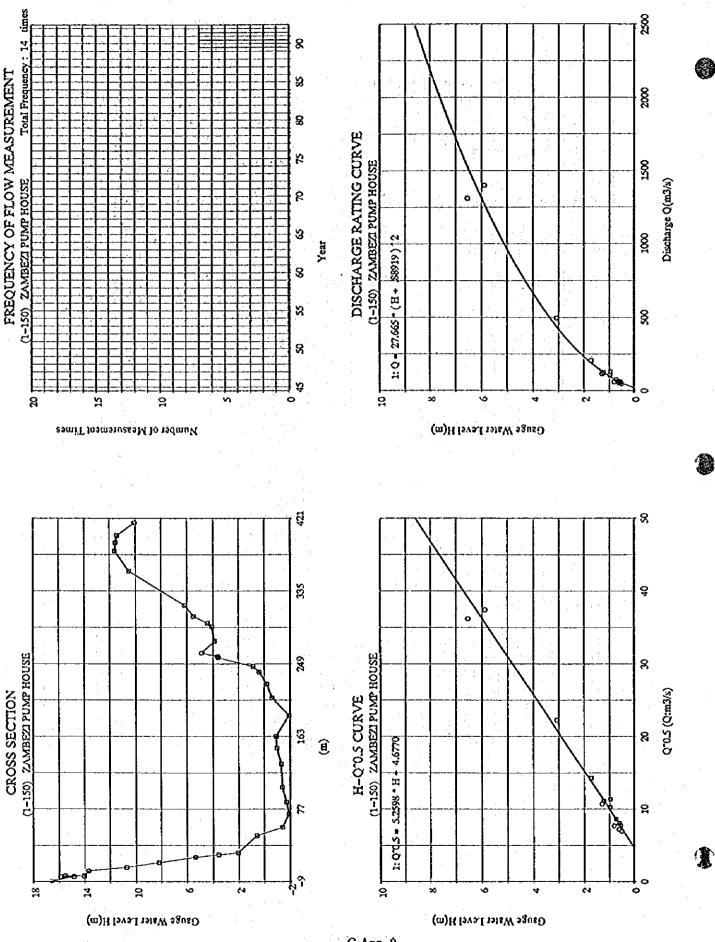
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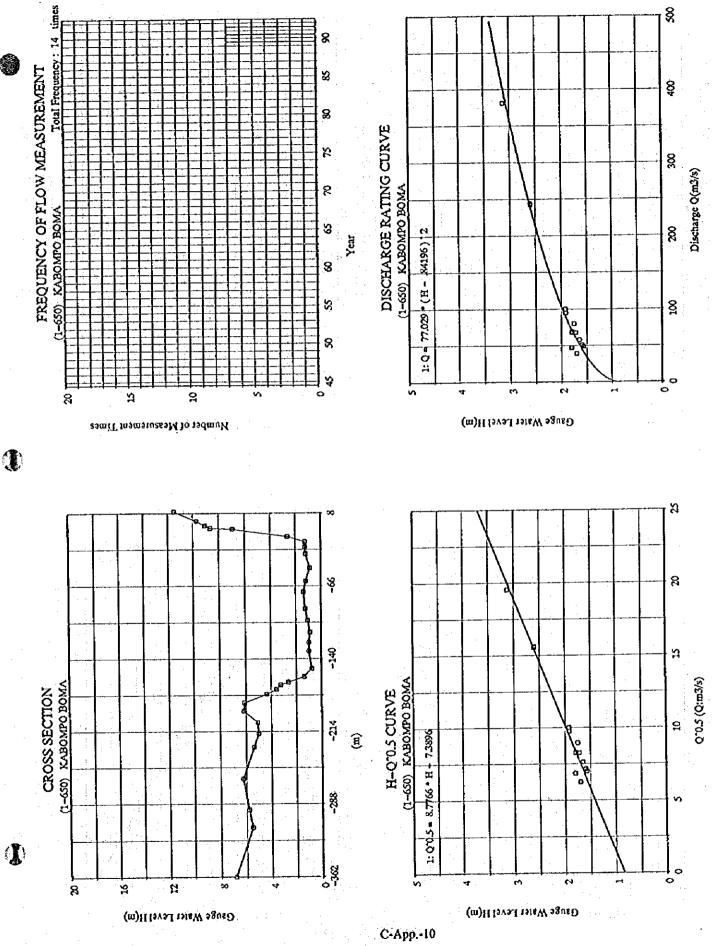
Appendix - 2 Cross Section and Discharge Rating Curve at Hydrometric Station

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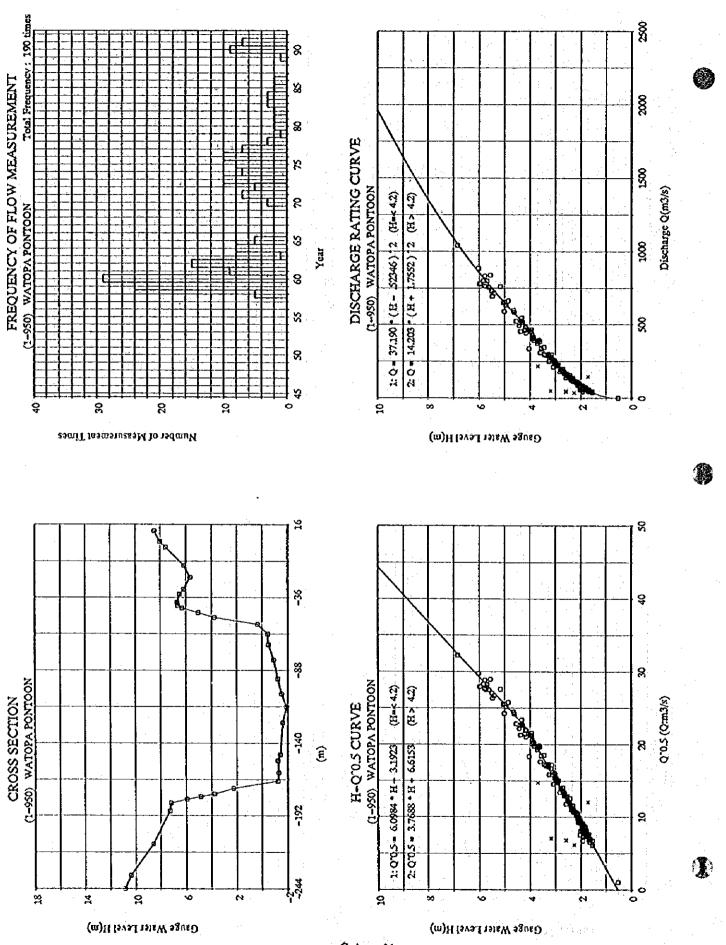
		Discharge Rating Curve		
1	No.	Station Name & Number	Discharge Rating Curve	Water Level Range
•	PZ-02	Zambezi Pump House (1-150)	$Q = 27.665(H + 0.889)^2$	All of H
	PZ-03	Kabompo Boma (1-650)	Q = 77.029(H - 0.842) ²	All of H
	PZ-05	Watopa Pontoon (1-950)	$Q = 37.190(H - 0.523)^2$	H≦4.2 m
			$Q = 14.203(H + 1.755)^2$	H>4.2 m
	PZ-07	Lukulu (2-030)	$\overline{Q} = 33.862(H + 2.121)^2$	All of H
	PZ-08	Kalabo (2-250)	$\bar{Q} = 10.591(H + 0.293)^2$	H≦3.4 m
			$Q = 169.37(H - 2.454)^2$	H>3.4 m
Î	PZ-10	Senanga (2-400)	$Q = 64.534(H + 1.305)^2$	All of H
. [PK-01	Ragian Farm (4-050)	$Q = 7.586(H - 1.007)^2$	H≦2.5 m
			$Q = 3.587(H + 1.144)^2$	H>2.5 m
	PK-02	Mwambashi (4-120)	$Q = 2.112(H - 0.069)^2$	H≦2.8 m
			$Q = 6.168(H - 1.223)^2$	H>2.8 m
	PK-03	Smith's Bridge (4-130)	$Q = 6.251(H + 0.133)^2$	All of H
	PK-04	Mpatamatu (4-200)	$Q = 7.507(H + 0.619)^2$	All of H
	PK-05	Machiya Ferry (4-280)	$Q = 11.409(H - 1.075)^2$	All of H
-	PK-07	Chilenga (4-350)	$Q = 9.716(H + 0.291)^2$	H≦5.5 m
			$Q = 51.843(H - 2.976)^2$	H>5.5 m
	PK-08	Lubungu (4-450)	$Q = 32.665(H - 0.509)^2$	All of H
	PK-09	Chifumpa Pontoon (4-560)	$Q = 26.533(H + 0.484)^2$	All of H
	PK-11	Kafue Hook Bridge (4-669)	$Q = 115.30(H - 0.975)^2$	All of H
	PL-1	Mfuwe (5-650) (82'02)	$Q = 21.558(H - 0.247)^2$	H≦1,60 m
			$Q = 30.734(H - 0.470)^2$	H>1.60 m
		(82'02 ~ 83'09)		H≦2.10 m
			$Q = 16.615(H - 0.572)^2$	2.10 <h≦5.00 m<="" td=""></h≦5.00>
			$Q = 37.217(H - 2.025)^2$	H>5.00 m
		(83'10 ~ _)	$Q = 2.034 H^2$	H≦1,50 m
		, i i i i i i i i i i i i i i i i i i i	$\hat{Q} = 57.813(H - 1.219)^2$	H>1.50 m
	PL-2	Ndevu Camp (5-800)	$\vec{Q} = 2.292 \text{H}^2$	H≦1,20 m
			$Q = 70.524(H - 0.984)^2$	H>1.20 m
	PL-5	Luangwa Road Bridge (5-940)	$Q = 6.222H^2$	H≦1.50 m
			$Q = 61.556(H - 1.023)^2$	H>1,50 m
	PC-1	Chambeshi Old Pontoon. (6-289)	$\overline{Q} = 19.756(H - 0.018)^2$	All of H
	PC-2	Kasama-Luwingu Rd.Br. (6-350)	$Q = 16.644(H - 0.0652)^2$	All of H
	PP-2	Chembe Ferry (6-670)	$Q = 74.290(H - 2.299)^2$	All of H
	PP-3	Kashiba (6-785)	$Q = 33.143(H + 0.648)^2$	H≦6.0 m
			$Q = 82.427(H - 1.803)^2$	H>6,0 m
	PP-4	Kundabwika Falls (6-900)	$Q = 62.437(H + 0.196)^2$	All of H
	PT-1	Keso Falls (7-750)	$Q = 65.551(H - 0.573)^2$	All of H
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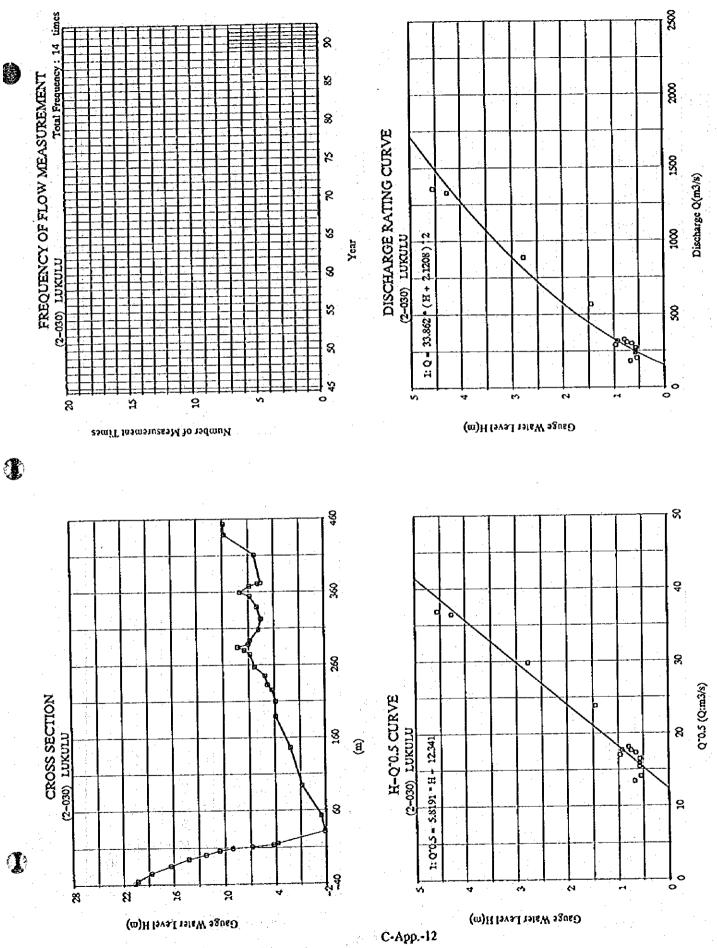
Discharge Rating Curve at Discharge Reference Points

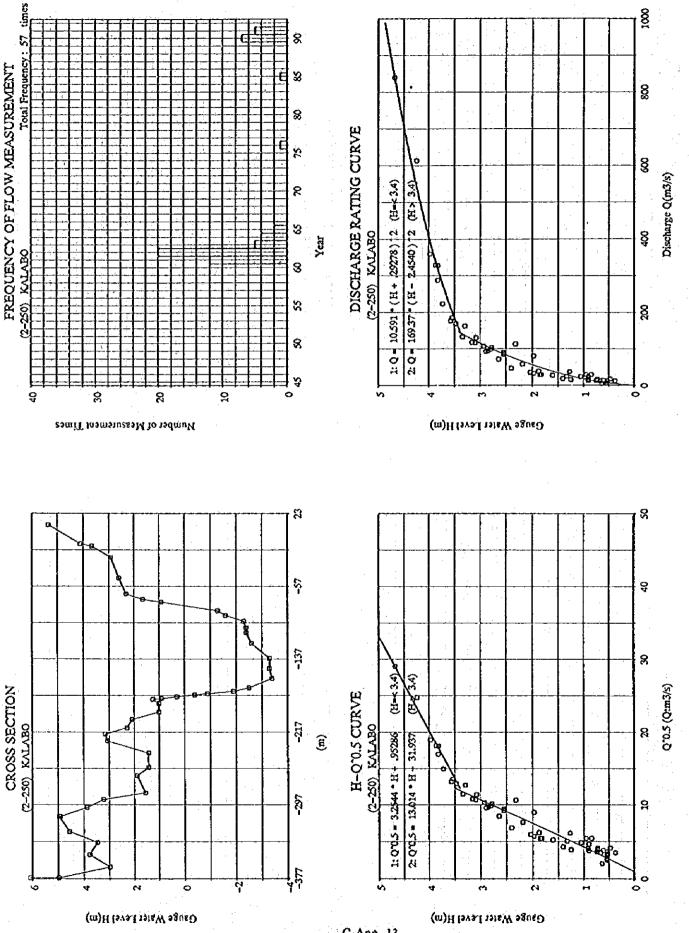




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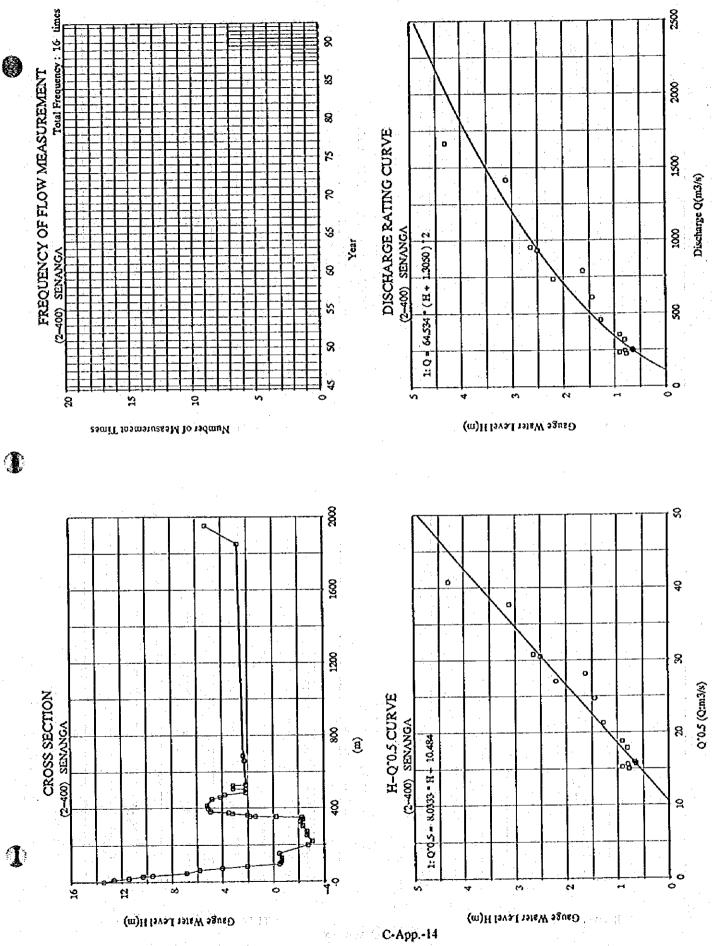


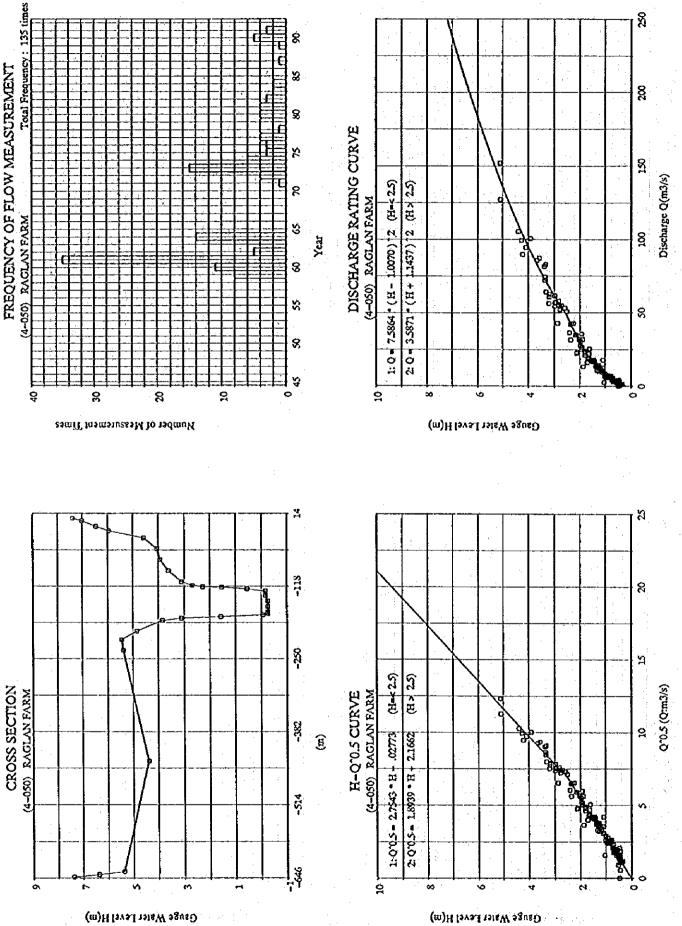


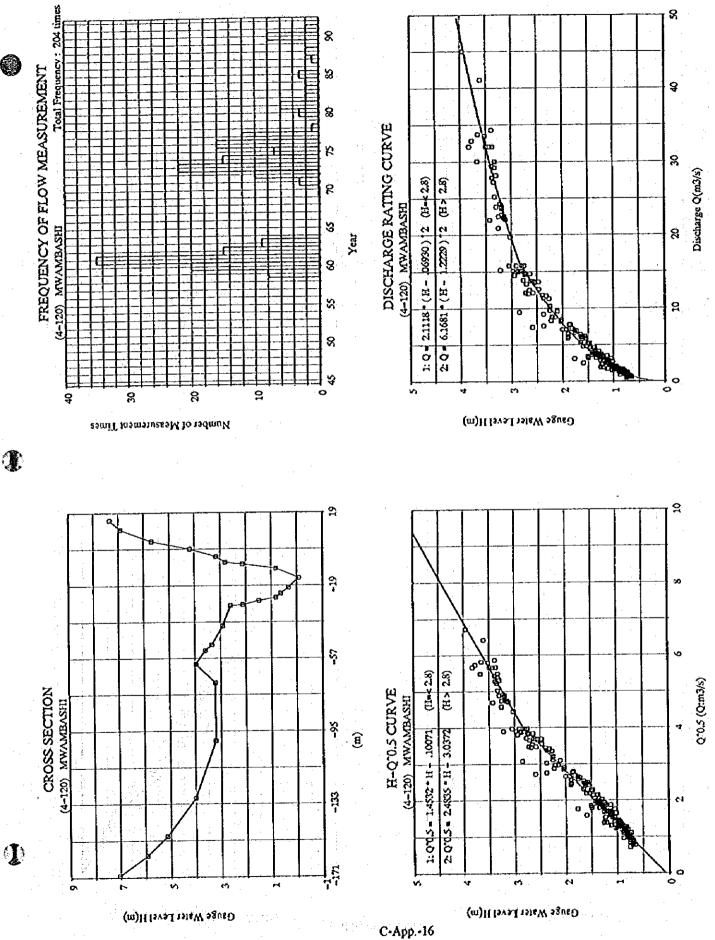


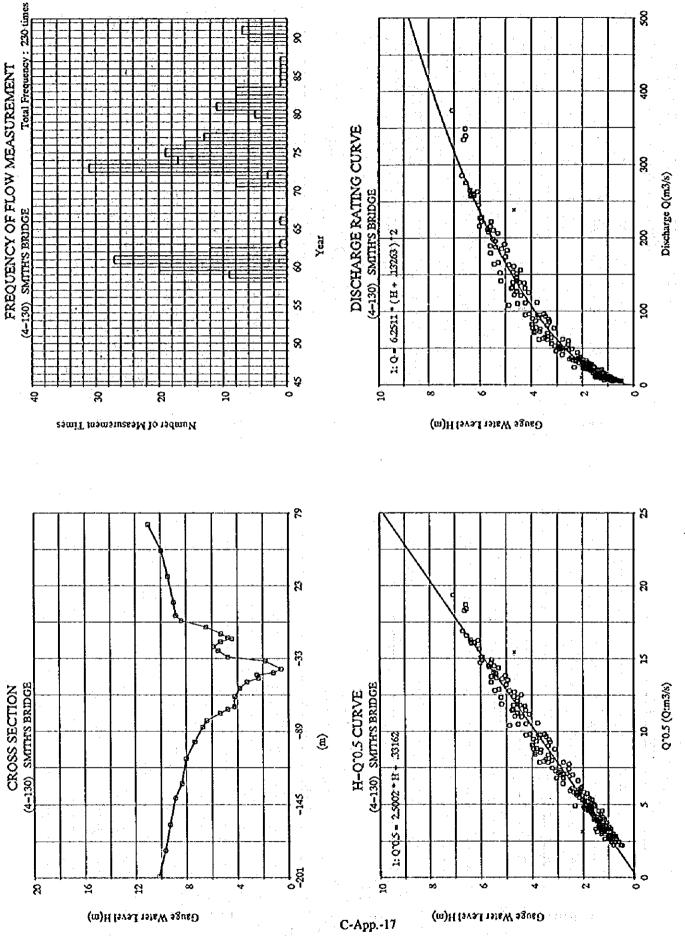
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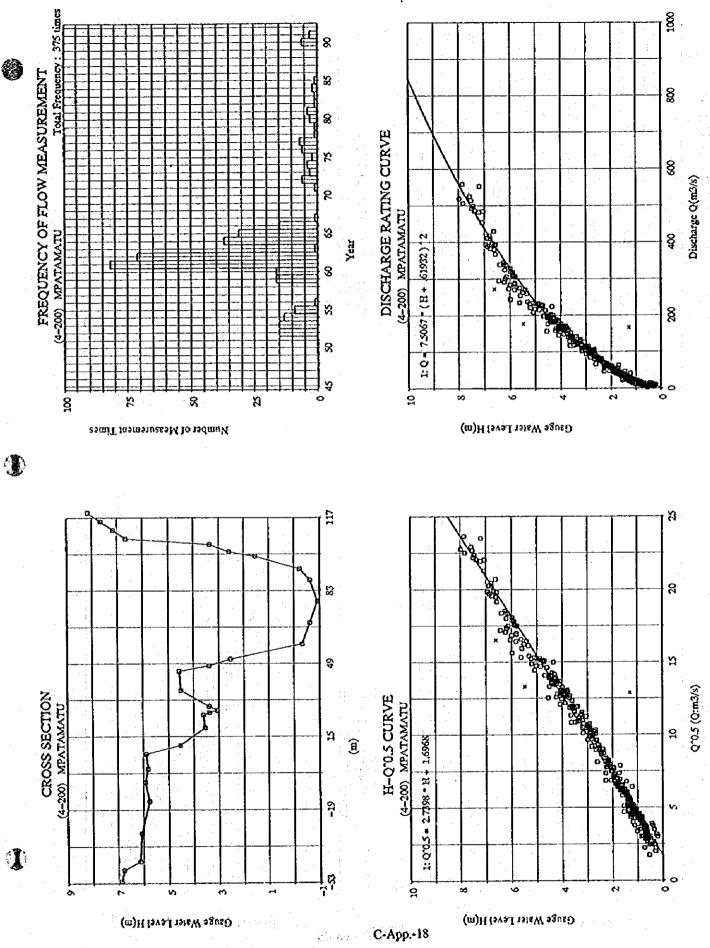
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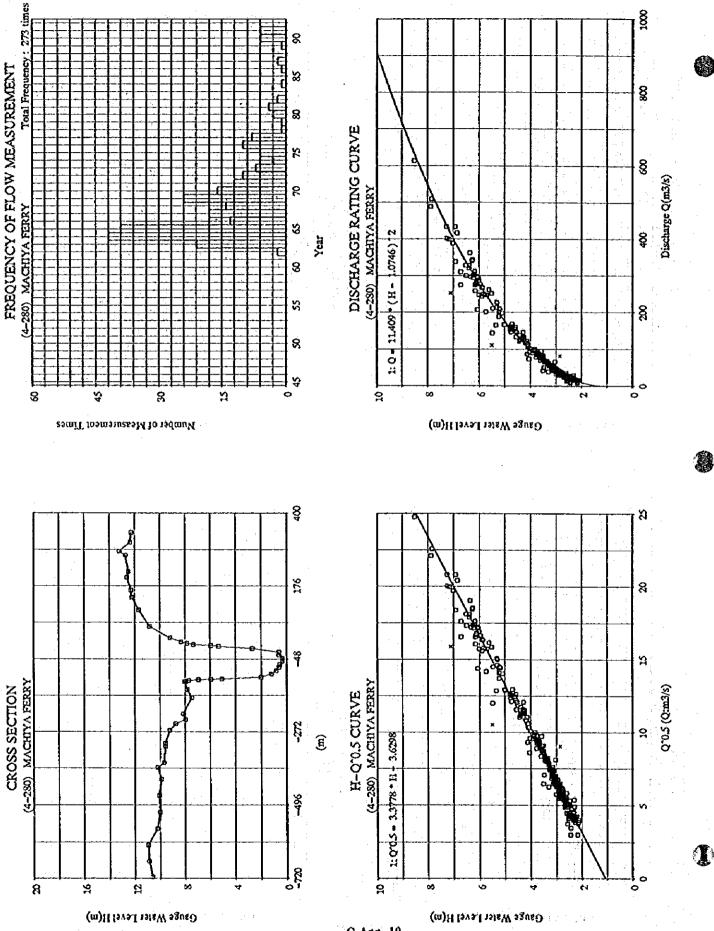


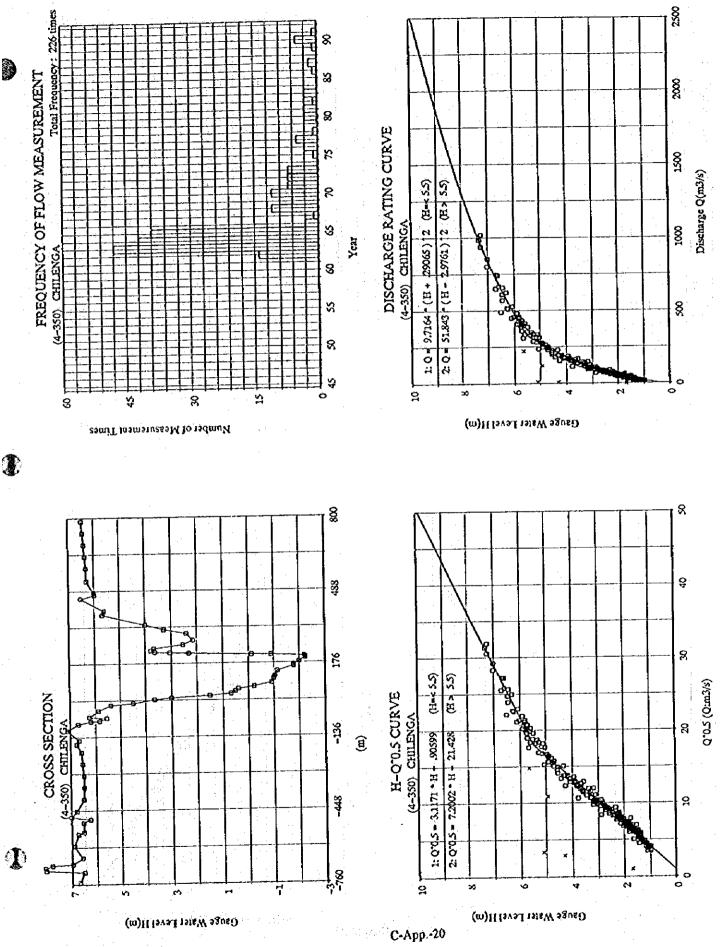


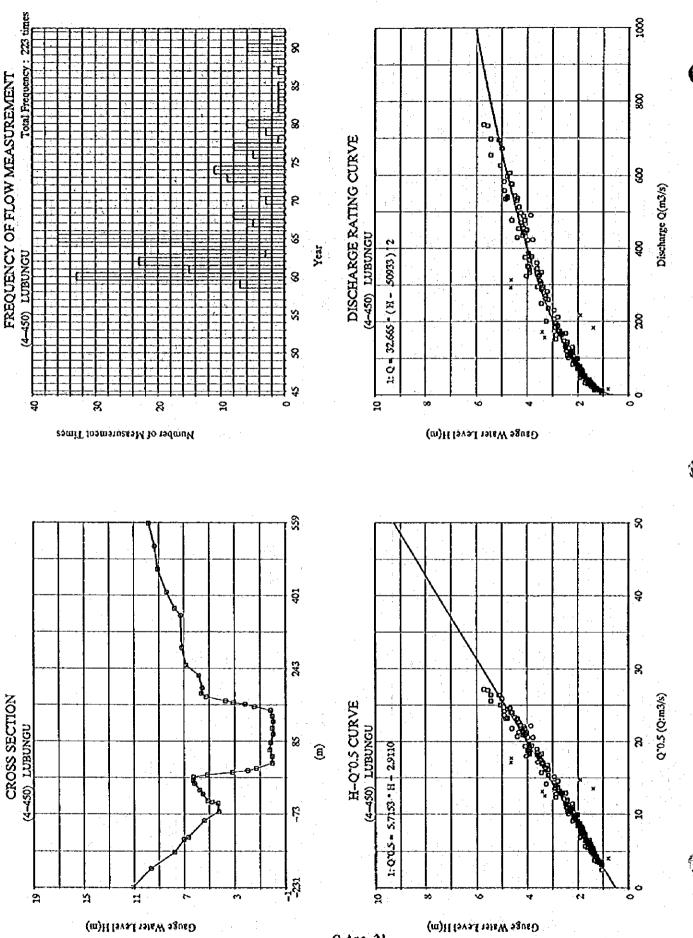


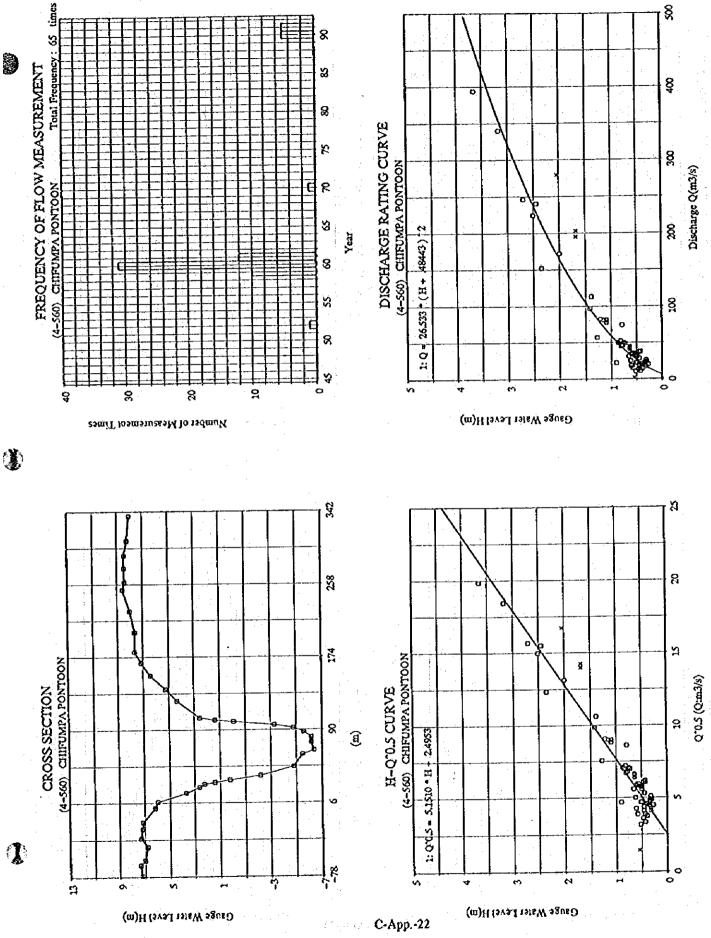


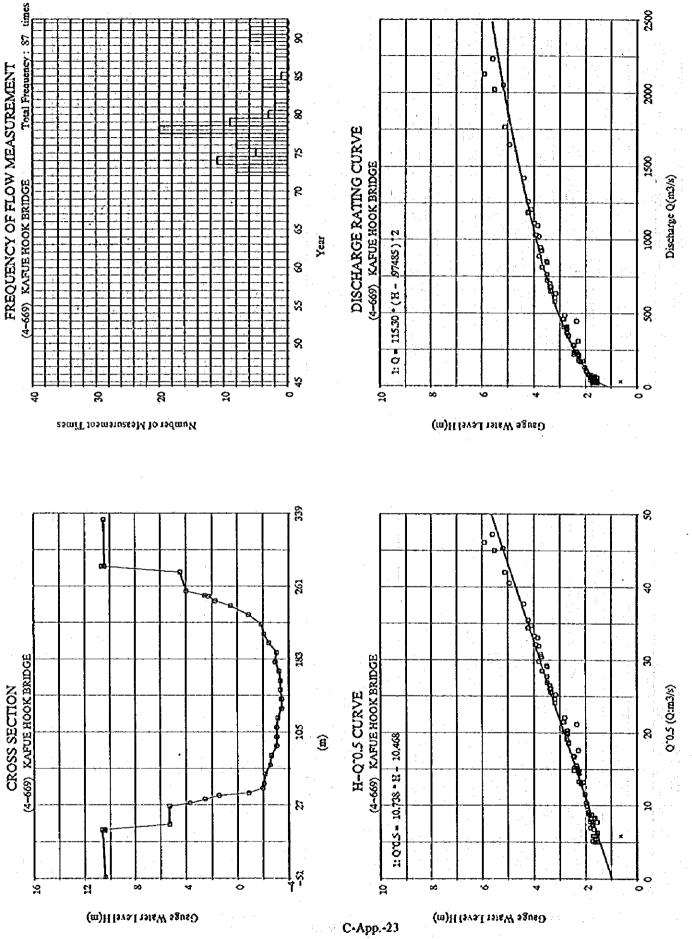




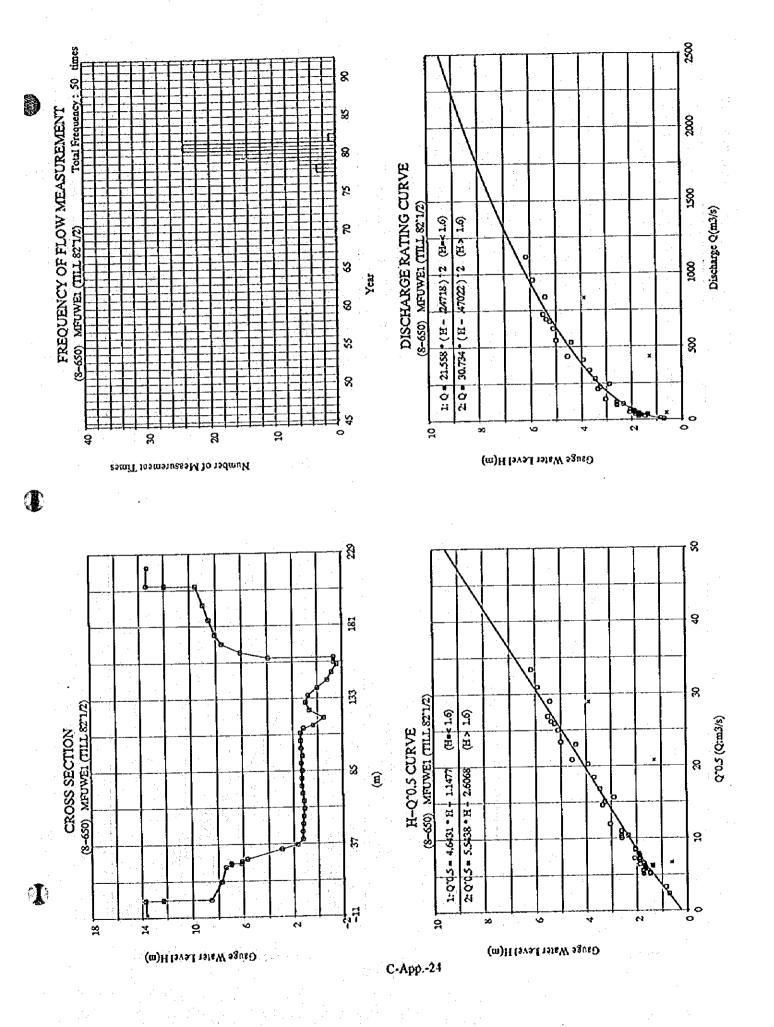


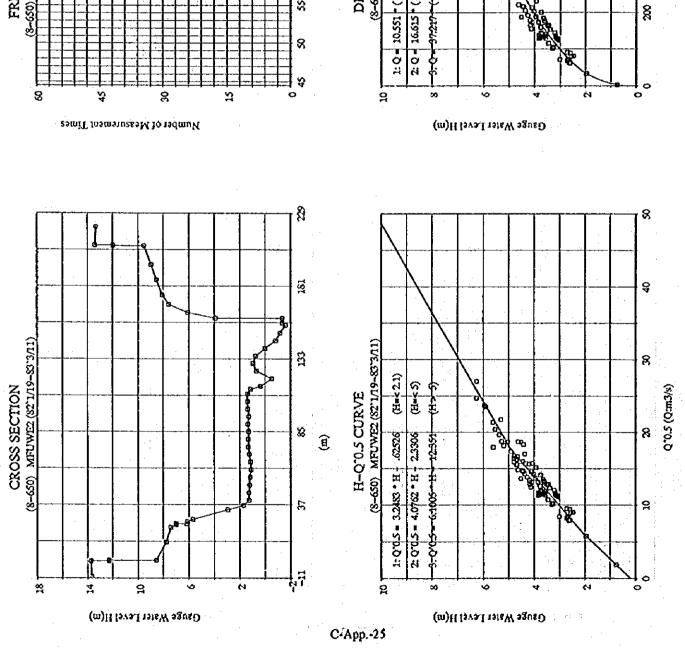


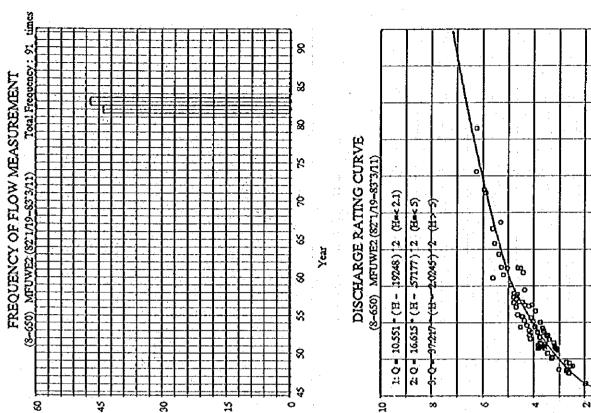




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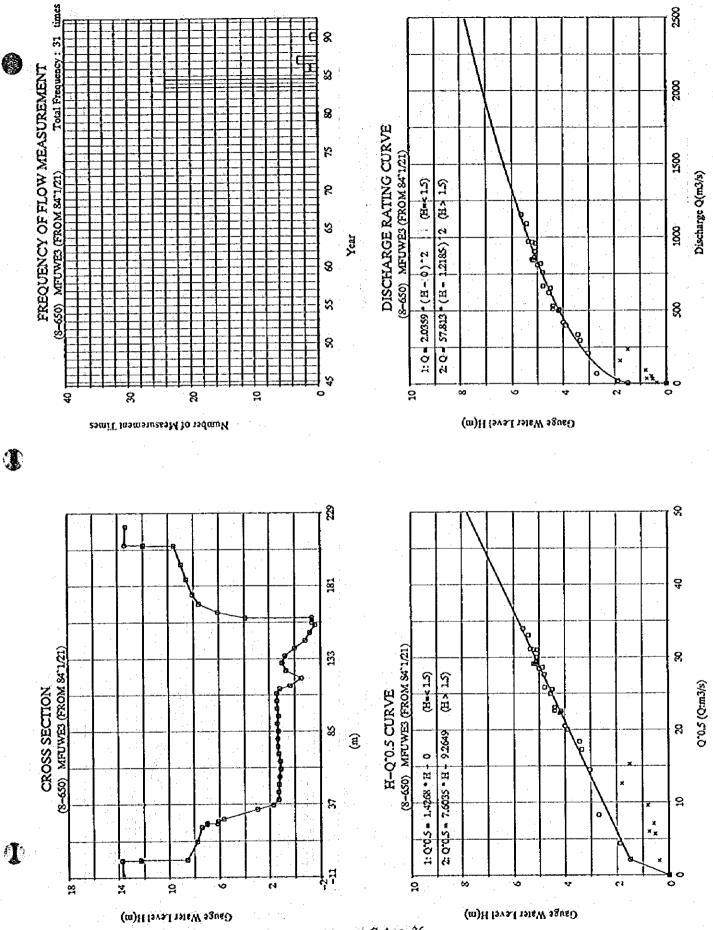
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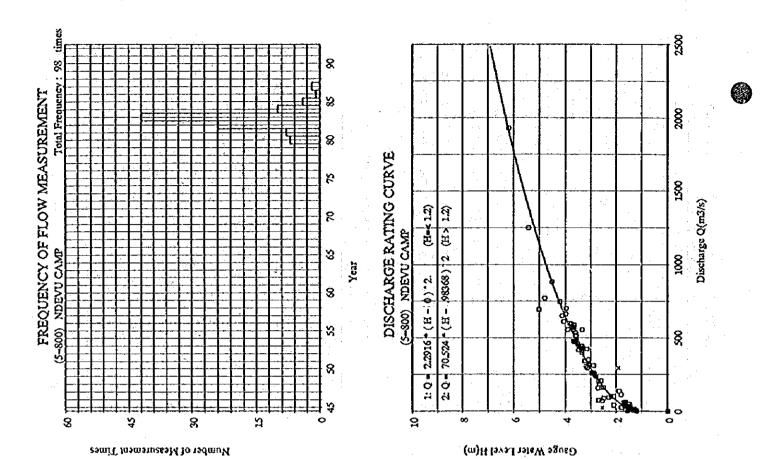
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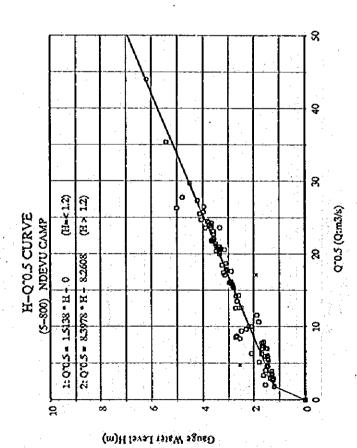
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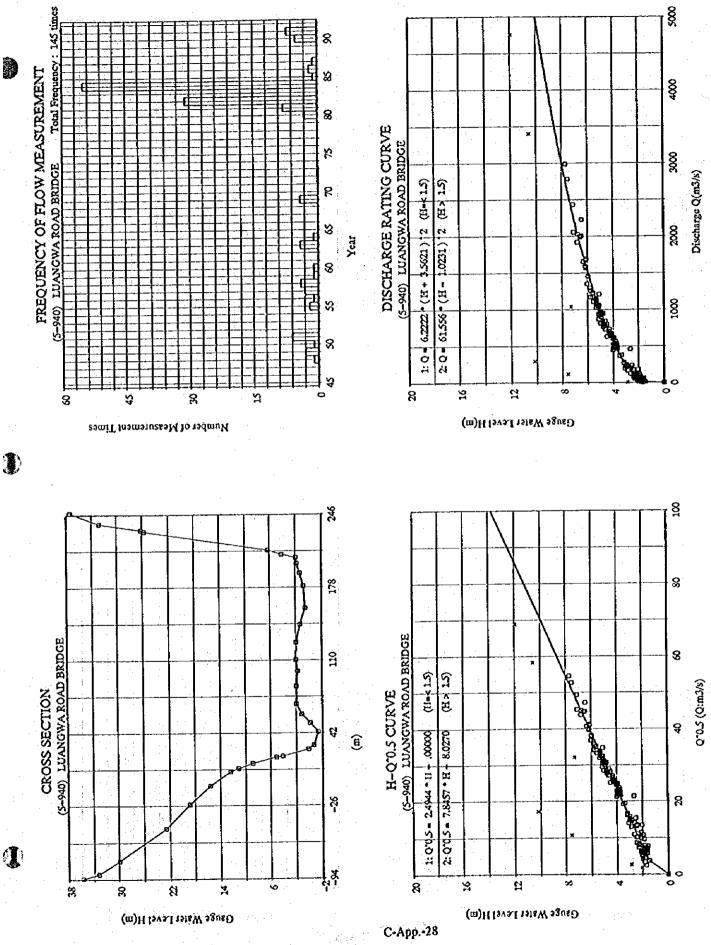
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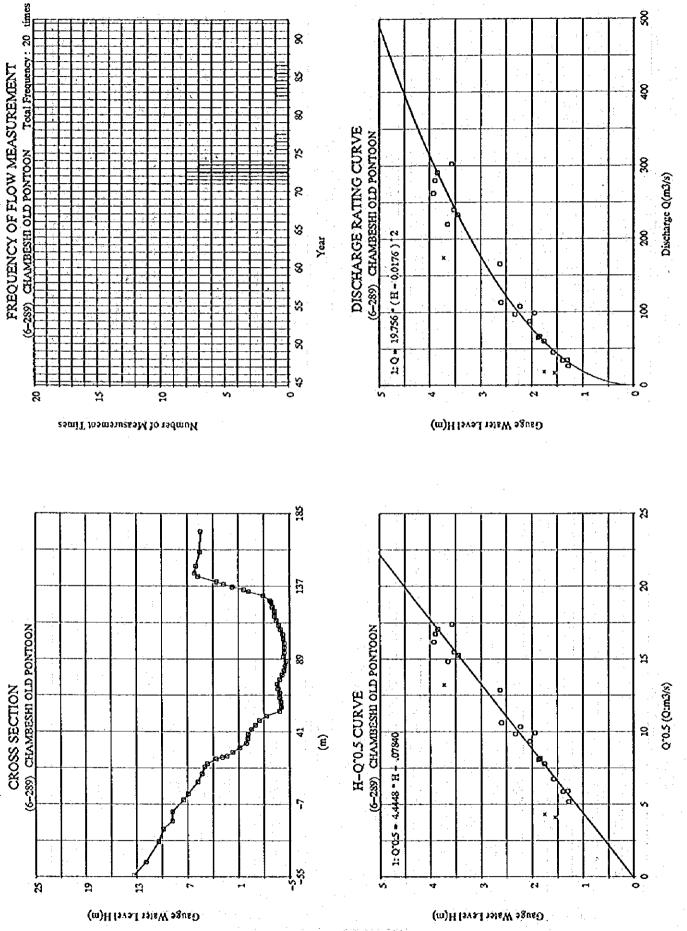
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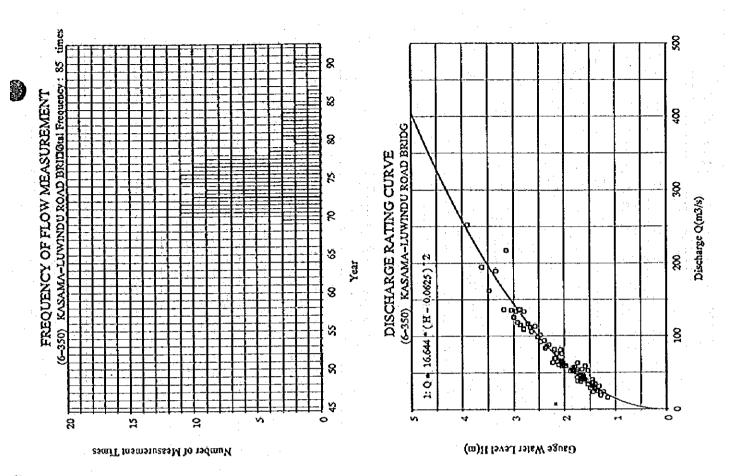


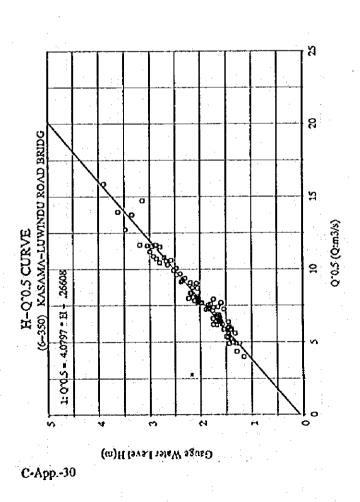




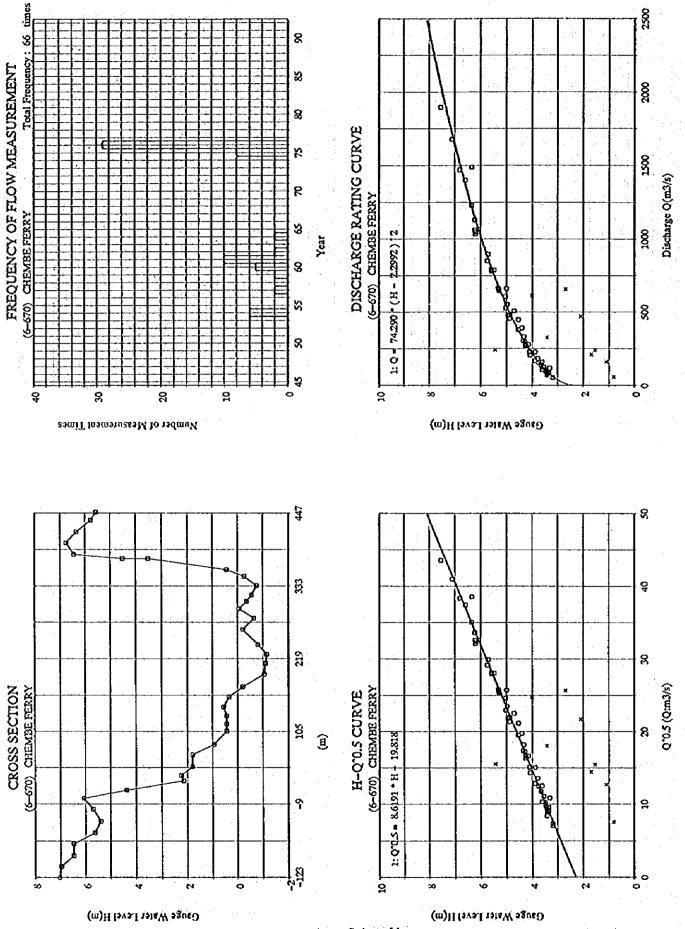


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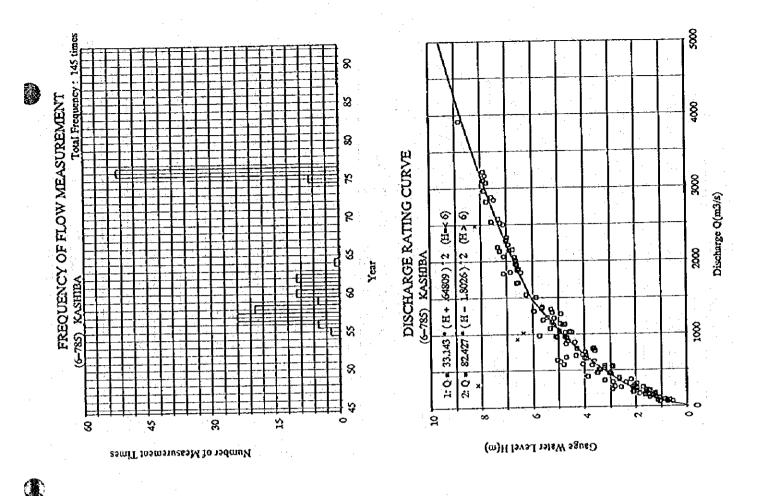
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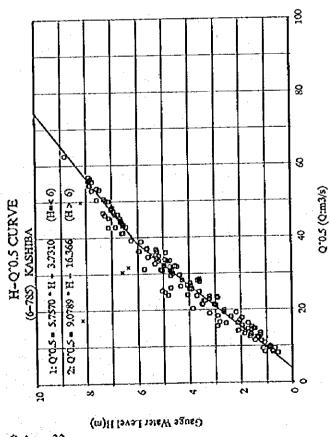


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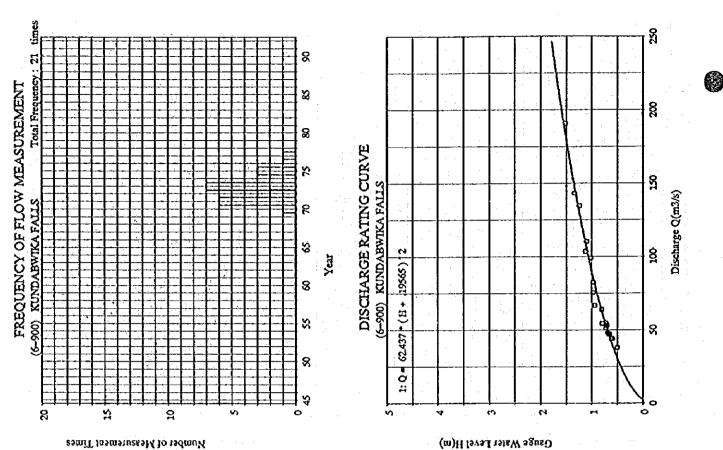
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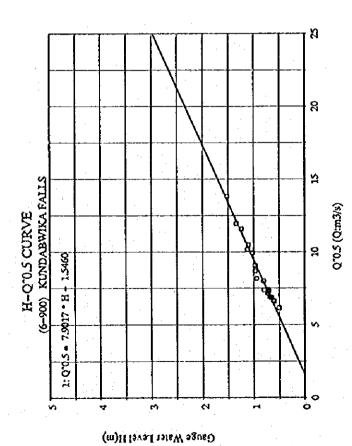
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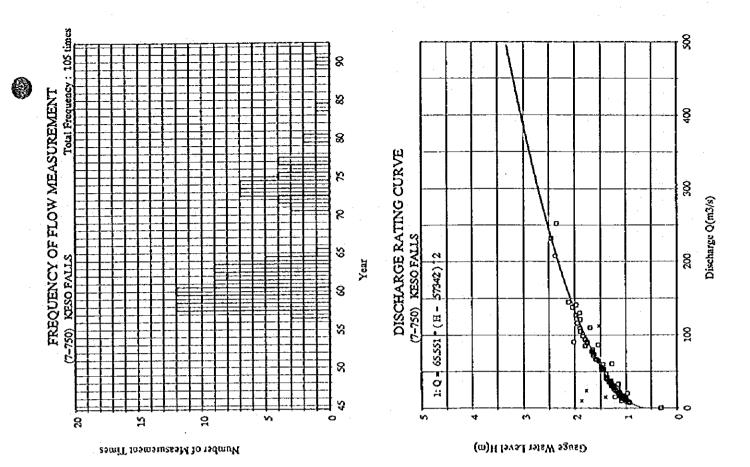


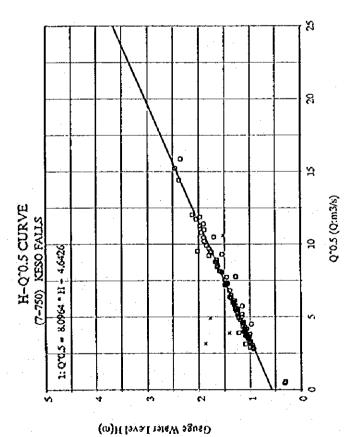


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Number of Measurement Times

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Appendix - 3 Monthly Mean Discharge and Flow Regime at Hydrometric Station

Complementary Equations

Some daily discharges at most hydrometric stations were complemented using the equation in the next Table. The complementary equations were calculated using the database system which was presented in theis Study. Then the monthly discharges at the station with the sign "Adopted", which are described in following pages, are the discharges after complemented.

Complementary Equation

	Complement			
Objective Station (Y)	Explanatory Station (X)	Complementary	Number of Data (N),	
		Equation	Correlation	Notes
			Coefficient (r)	
Zambezi P.H. (1-150)	Lukulu (2-030)		N=15,015, r=0.968	Adopted
Lukulu (2-030)	Zambezi P.H. (1-150)		N=15,015, r=0.968	Adopted
Kabompo Boma (1-650)	Watopa Pontoon (1-950)	and the second se	N=11,611, r=0.957	Adopted
Watopa Pontoon (1-950)	Kabompo Boma (1-650)		N=11,611, r=0.957	Adopted
Kalabo (2-250)	Zambezi P.H. (1-150)	Y=9.733X+ 10.35	N=12,504, r=0.771	Not Adopted
Kalabo (2-250)	Kabompo Boma (1-650)	Y=0.366X- 0.90	N=11,664, r=0.592	Not Adopted
Senanga (2-400)	Lukulu (2-030)	Y=1.093X+169.57	N=14,878, r=0.870	Not Adopted
Senanga (2-400)	Victoria Fall Big Tree	Y=0.\$70X+254.88	N=14,847, r=0.934	Not Adopted
	Raglam Farm (4-050)	Y=1.721X+ 13.60	N=11,580, r=0.960	Adopted
	rm was adopted because of	many data not obser	rved at Mupatamatu.	
Mpatamatu (4-200)	Machiya Ferry (4-280)	Y=0.615X+ 7.20	N= 9,309, r=0.966	Adopted
M	achiya Ferry has enough da	ta and a little no-ob	served data.	
Chilenga (4-350)	Machiya Ferry (4-280)	Y=1.310X+ 0.45	N=10,690, r=0.976	Adopted
Lubungu (4-450)	Kafue H. Br. (4-669)	Y=0.576X+ 12.53	N= 6,260, r=0.965	Adopted
Chipumpa Pontn. (4-560)	Machiya Ferry (4-280)		N=10,305, r=0.836	Adopted
Chipumpa Pontn. (4-560)	Chilenga (4-350)	Y=0.513X- 38.26	N= 9,820, r=0.808	Not Adopted
Kafue H. Br. (4-669)	Lubungu (4-450)	Y=1.614X+ 1.45	N= 6,260, r=0.965	Adopted
Mfuwel (5-650)	Luangwa Rd Br. (5-940)	Y=0.366X+ 95.92	N= 5,228, r=0.876	Adopted
Mfuwe3 (5-650)	Ndevu Camp (5-800)	Y=0.689X+ 32.98	N= 1,680, r=0.950	Adopted
Ndevu Camp (5-800)	Mfuwe (5-650)	Y=1.339X+ 18.63	N= 2,776, r=0.907	Not Adopted
Kasama-L. Rd.Br. (6-350)	Chambeshi O.P. (6-289)	Y=0.194X+ 36.75	N= 7,768, r=0.771	Adopted
Chembe Ferry (6-670)	Kashiba (6-785)	Y=0.757X- 53.48	N= 8,060, r=0.979	Adopted
Kashiba (6-785)	Chembe Ferry (6-670)	Y=1.267X+104.67	N= 8,060, r=0.979	Adopted
Kundabwika Falls (6-900)		Y=1.138X+ 59.94	N= 6,893, r=0.844	Adopted
Keso Falls (7-750)	Kundabwika Falls (6-900)	Y=0.626X- 19.71	N= 6,893, r=0.844	Adopted

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C-App.-38

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431	Ѯ҉҂ҥӫ҃ӹ҄ҏҙҿҿѻҏ҉ҏҋҋ҄ӌ҃ӌҧѩҏ҄҃҃҇Ҁ҄ҋ҉ҋ҉Ҋѹѧҿѡҫҋӿӎѹҩ҂ ^Ҳ ѹѻҩѹ "и⊷ѻиѧѹѹѹѹѹӥҝӈӹҥӹҏѷӥӆѷҩҁ҂ӄҝҝҋѻѽѡ`'n๛ӣӥ
652 689	Ѯ҇ѻҔӃ҉ӵ҄ѹഺഺ൮҃ѻҶ҄Ҭҋ҃Ҫ҄ѡҩҀѠ҈ҋҶ҃ҋ҄ӼҲ҃ҿѻ҂ӯҊӯҿѹӆѻ _ҥ Ҭҩҋҋ ҄ ⁻ ӫѻѻ҂҂ҽѷҩ҂ҩѻҩҩҩѽ҅ҥѷѻӄഺѡѽѻӄѽҫӥѹӥѹѹѹҥҥ
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Ave(20) Ave(30)	C C C C C C C C C C C C C C C C C C C

C-App.-42

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1959 1992 Flow Resume Table by Station (4-120)WMMBASH1 **B**

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C-App.-47

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С-Арр.-62

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